



# The bidi Package

Source documentation for [version 41.6](#)

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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# The *bidi* Package

## Bidirectional typesetting in plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ , using Xe $\text{T}_{\text{E}}\text{X}$ engine

Source documentation for [version 41.6](#)

Vafa Khalighi\*

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\*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the  $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$  team for maintaining the package in the period 2018–2020.

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## 1 File `amsart-xetex-bidi.def`

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3 \ifnum #1>\c@tocdepth % then omit
4 \else
5 \par \addpenalty\@secpenalty\addvspace{#2}%
6 \begingroup \hyphenpenalty\@M
7 \ifempty{#4}{%
8 \@tempdima\csname r@tocindent\number#1\endcsname\relax
9 }{%
10 \@tempdima#4\relax
11 }%
12 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\
13 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16 \nobreak
17 \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24 \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27 \kern-.4\p@
28 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29 \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35 \insert\footins{%
36 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37 \reset@font%
38 \bidi@footnotetext@font% \normalfont\footnotesize
39 \interlinepenalty\interfootnotelinepenalty
40 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41 \floatingpenalty\@MM \hsize\columnwidth
42 \@parboxrestore \parindent\normalparindent \sloppy
43 \protected@edef\@currentlabel{%
44 \csname p@footnote\endcsname\@thefnmark}%
45 \@makefnmark%
46 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
47
48 \long\def\@RTLfootnotetext#1{%
49 \insert\footins{%
50 \@RTLtrue%
51 \reset@font%
52 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefntext{%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefntext{%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111 \@topnum\z@ % this prevents figures from falling at the top of page 1
112 \setcopyright
113 \thispagestyle{firstpage}% this sets first page specifications
114 \uppercase\shorttitle
115 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116 \else \andify\shortauthors
117 \fi
118 \@maketitle@hook
119 \begingroup
120 \@maketitle
121 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
122 \toks4\def\{\ \ignorespaces}}% defend against questionable usage
123 \edef\@tempa{%
124 \@nx\markboth{\the\toks4
125 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126 \@tempa
127 \endgroup
128 \c@footnote\z@
129 \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133 \def\@tempa{#2}%
134 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135 \def\@tempa{#3}%
136 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137 \ifnum\col@number<\@ne
138 \PackageWarning{adjmulticol}%
139 {Using '\number\col@number'
140 columns doesn't seem a good idea.^^J
141 I therefore use one columns instead}%
142 \col@number\@ne\fi
143 \ifnum\col@number>10
144 \PackageError{adjmulticol}%
145 {Too many columns}%
146 {Current implementation doesn't
147 support more than 10 columns.%
148 \MessageBreak
149 I therefore use 10 columns instead}%
150 \col@number10 \fi
151 \ifx\@footnotetext\mult@footnotetext\else
152 \let\orig@footnotetext\@footnotetext
153 \let\@footnotetext\mult@footnotetext
154 \fi
155 \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156 \let\orig@LTRfootnotetext\@LTRfootnotetext
157 \let\@LTRfootnotetext\mult@LTRfootnotetext

```





```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic@c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
199 }}{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

### 4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208 \ifnum #1>\c@tocdepth % then omit
209 \else
210 \par \addpenalty\@secpenalty\addvspace{#2}%
211 \begingroup \hyphenpenalty\@M
212 \@ifempty{#4}{%
213 \@tempdima\csname r@tocindent\number#1\endcsname\relax
214 }{%
215 \@tempdima#4\relax
216 }%
217 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
218 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221 \nobreak
222 \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229 \columnseprule\z@ \columnsep 35\p@
230 \@indextitlestyle
231 \thispagestyle{plain}%
232 \let\item\@idxitem
233 \parindent\z@ \parskip\z@\@plus.3\p@\relax
234 \if@RTL\raggedleft\else\raggedright\fi
235 \hyphenpenalty\@M
236 \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241 \kern-.4\p@
242 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243 \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248 \insert\footins{%
249 \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250 \reset@font%
251 \bidi@footnotetext@font% \normalfont\footnotesize
252 \interlinepenalty\interfootnotelinepenalty
253 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254 \floatingpenalty\@MM \hsize\columnwidth
255 \@parboxrestore \parindent\normalparindent \sloppy
256 \protected@edef\@currentlabel{%
257 \csname p@footnote\endcsname\@thefnmark}%
258 \@makefnmark%
259 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@LTRbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
309 \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312 \begingroup
313 \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

## 5 File `amsmath-xetex-bidi.def`

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\@nocounterr{#2}}{%
341 \ifundefined{c@#3}{\@nocnterr{#3}}{%
342 \addtoreset{#2}{#3}%
343 \xp\xdef\csname the#2\endcsname{%
344 \xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

## 6 File `amstext-xetex-bidi.def`

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```

## 7 File `amsthm-xetex-bidi.def`



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2024/12/10 v0.5 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
387 \def\@tabular{%
388 \leavevmode
389 \hbox \bgroup\if@RTLtab\beginR \fi
390 \UseTaggingSocket{tbl/hmode/begin}%
391 $\col@sep\tabc@sep \let\d@llarbegin\beginR \let\d@llarend\endR
392 \let\d@llarbegin\beginR \let\d@llarend\endR
393 \@tabarray}
394 \def\endtabular{\endarray\m@th $
395 \UseTaggingSocket{tbl/hmode/end}%
396 \if@RTLtab\endR\fi\egroup
397 }
398 \expandafter\let\c@name endtabular*\endc@name=\endtabular
399 \ExplSyntaxOn
400 \def\@array[#1]#2{
401 \@tempdima \ht \strutbox
402 \advance \@tempdima by\extrarowheight
403 \setbox \@arstrutbox \hbox{\vrule
404 \@height \arraystretch \@tempdima
405 \@depth \arraystretch \dp \strutbox
406 \@width \z@}%
407 \tbl_save_outer_table_cols:
408 \beginR
409 \mkpream{#2}%

```



```

410 \tbl_count_table_cols:
411 \xdef\@preamble{
412   \noexpand \ar@ialign
413   \@halignto
414   \bgroup \@arstrut
415   \UseTaggingSocket{tbl/row/begin}
416   \tbl_init_cell_data_for_row:
417   \@preamble
418   \tabskip \z@ \cr}
419 \endgroup
420 \@arrayleft
421 \if #1\vtop \else \if#1b\vbox \else \vcenter \fi \fi
422 \bgroup
423 \let \@sharp ##\let \protect \relax
424 \lineskip \z@
425 \baselineskip \z@
426 \mathsurround \z@
427 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
428 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
429 \UseTaggingSocket{tbl/init}
430 \@preamble
431 }
432 \ExplSyntaxOff
433 \let\@array\@array
434 \ExplSyntaxOn
435 \def\endarray {
436   \tbl_crcr:n{endarray} \egroup
437   \UseTaggingSocket{tbl/finalize}
438   \tbl_restore_outer_cell_data:
439   \if@RTLtab\egroup\endR\egroup\fi
440   \egroup
441   \@arrayright \gdef\@preamble{}%
442 }
443 \ExplSyntaxOff
444 \def\array{\col@sep\arraycolsep
445   \def\d@llarbegin{${}\let\d@llarend\d@llarbegin\def\@halignto{}}%
446   \@RTLtabfalse\@tabarray}

```

## 9 File article-xetex-bidi.def

```

447 \ProvidesFile{article-xetex-bidi.def}[2025/01/05 v0.9 bidi adaptations for standard article]
448 \IfClassLoadedT{svmult}{\endinput}
449 \if@titlepage
450   \renewcommand\maketitle{\begin{titlepage}%
451     \let\footnotesize\small
452     \let\right@footnoterule\relax
453     \let\left@footnoterule\relax
454     \let\textwidth@footnoterule\relax
455     \let \footnote \thanks
456     \let \LTRfootnote \LTRthanks
457     \let \RTLfootnote \RTLthanks
458     \null\vfil
459     \vskip 60\p@
460     \begin{center}%

```



```

461   {\LARGE \@title \par}%
462   \vskip 3em%
463   {\large
464     \lineskip .75em%
465     \begin{tabular}[t]{c}%
466       \@author
467     \end{tabular}\par}%
468   \vskip 1.5em%
469   {\large \@date \par}%           % Set date in \large size.
470 \end{center}\par
471 \@thanks
472 \vfil\null
473 \end{titlepage}%
474 \setcounter{footnote}{0}%
475 \global\let\thanks\relax
476 \global\let\LTRthanks\relax
477 \global\let\RTLthanks\relax
478 \global\let\maketitle\relax
479 \global\let\@thanks\@empty
480 \global\let\@author\@empty
481 \global\let\@date\@empty
482 \global\let\@title\@empty
483 \global\let\title\relax
484 \global\let\author\relax
485 \global\let\date\relax
486 \global\let\and\relax
487 }
488 \else
489 \renewcommand\maketitle{\par
490   \begingroup
491     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
492     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
493     \long\def\@makefntext##1{\parindent 1em\noindent
494       \hb@xt@1.8em{%
495         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
496     \if@twocolumn
497       \ifnum \col@number=\@one
498         \@maketitle
499       \else
500         \twocolumn[\@maketitle]%
501       \fi
502     \else
503       \newpage
504       \global\@topnum\z@   % Prevents figures from going at top of page.
505       \@maketitle
506     \fi
507     \thispagestyle{plain}\@thanks
508   \endgroup
509   \setcounter{footnote}{0}%
510   \global\let\thanks\relax
511   \global\let\LTRthanks\relax
512   \global\let\RTLthanks\relax
513   \global\let\maketitle\relax
514   \global\let\@maketitle\relax

```



```

515 \global\let\thanks\@empty
516 \global\let\author\@empty
517 \global\let\@date\@empty
518 \global\let\@title\@empty
519 \global\let\title\relax
520 \global\let\author\relax
521 \global\let\date\relax
522 \global\let\and\relax
523 }
524 \def\@maketitle{%
525 \newpage
526 \null
527 \vskip 2em%
528 \begin{center}%
529 \let \footnote \thanks
530 \let \LTRfootnote \LTRthanks
531 \let \RTLfootnote \RTLthanks
532 {\LARGE \@title \par}%
533 \vskip 1.5em%
534 {\large
535 \lineskip .5em%
536 \begin{tabular}[t]{c}%
537 \@author
538 \end{tabular}\par}%
539 \vskip 1em%
540 {\large \@date}%
541 \end{center}%
542 \par
543 \vskip 1.5em}
544 \fi
545 \renewcommand*\l@part[2]{%
546 \ifnum \c@tocdepth >-2\relax
547 \addpenalty\@secpenalty
548 \addvspace{2.25em \@plus\p@}%
549 \setlength\@tempdima{3em}%
550 \begingroup
551 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
552 \parfillskip -\@pnumwidth
553 {\leavevmode
554 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
555 \nobreak
556 \if@compatibility
557 \global\@nobreaktrue
558 \everypar{\global\@nobreakfalse\everypar{}}%
559 \fi
560 \endgroup
561 \fi}
562 \renewcommand*\l@section[2]{%
563 \ifnum \c@tocdepth >\z@
564 \addpenalty\@secpenalty
565 \addvspace{1.0em \@plus\p@}%
566 \setlength\@tempdima{1.5em}%
567 \begingroup
568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```





```

569     \parfillskip -\@pnumwidth
570     \leavevmode \bfseries
571     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
572     \hskip -\if@RTL\rightskip\else\leftskip\fi
573     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
574   \endgroup
575 \fi}
576 \renewcommand\left@footnoterule{%
577   \kern-3\p@
578   \hrule\@width.4\columnwidth
579   \kern2.6\p@}
580 \renewcommand\right@footnoterule{%
581   \kern-3\p@
582   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
583   \kern2.6\p@}
584 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
585 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
586 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
587 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
588 \def\@part[#1]#2{%
589   \ifnum \c@secnumdepth >\m@ne
590     \refstepcounter{part}%
591     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
592   \else
593     \addcontentsline{toc}{part}{#1}%
594   \fi
595   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
596     \interlinepenalty \M
597     \normalfont
598     \ifnum \c@secnumdepth >\m@ne
599       \Large\bfseries \partname\nobreakspace\thepart
600     \par\nobreak
601     \fi
602     \huge \bfseries #2%
603     \markboth{}{\par}%
604     \nobreak
605     \vskip 3ex
606     \@afterheading}
607 \ApplyPatchIfPackageLoaded{nameref}{%
608   \bidi@patchcmd\NR@spart\raggedright{%
609     \if@RTL\raggedleft\else\raggedright\fi
610   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
611 }{%
612   \bidi@patchcmd\@spart\raggedright{%
613     \if@RTL\raggedleft\else\raggedright\fi
614   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
615 }
616 \renewenvironment{thebibliography}[1]
617   {\section*{\refname}%
618     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
619     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
620     \bidi@@thebibliography@font@hook%
621     \list{\@biblabel{\@arabic\c@enumiv}}%
622     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

623         \leftmargin\labelwidth
624         \advance\leftmargin\labelsep
625         \@openbib@code
626         \usecounter{enumiv}%
627         \let\p@enumiv\@empty
628         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
629     \sloppy
630     \clubpenalty4000
631     \@clubpenalty \clubpenalty
632     \widowpenalty4000%
633     \sfcode`. \@m}
634     {\def\@noitemerr
635      {\@latex@warning{Empty `thebibliography' environment}}}%
636     \endlist}
637 \renewenvironment{theindex}
638     {\if@twocolumn
639      \@restonecolfalse
640      \else
641      \@restonecoltrue
642      \fi
643      \columnseprule \z@
644      \columnsep 35\p@
645      \twocolumn[\section*{\indexname}]%
646      \@mkboth{\MakeUppercase\indexname}%
647              {\MakeUppercase\indexname}%
648      \thispagestyle{plain}\parindent\z@
649      \parskip\z@ \@plus .3\p@\relax
650      \let\item\@idxitem}
651     {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

652 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
653 \renewenvironment{theindex}{%
654   \if@twocolumn
655     \@restonecolfalse
656   \else
657     \@restonecoltrue
658   \fi
659   \columnseprule \z@
660   \columnsep 35\p@
661   \twocolumn[\section*{\indexname}]%
662   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
663   \thispagestyle{plain}\parindent\z@
664   \parskip\z@ \@plus .3\p@\relax
665   \let\item\@idxitem
666 }{%
667   \if@restonecol\onecolumn\else\clearpage\fi}
668 \renewcommand*\head@style{%
669   \interlinepenalty \@M
670   \hyphenpenalty=\@M \exhyphenpenalty=\@M
671   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel\relax}
672 \if@titlepage
673 \renewenvironment{abstract}{%

```



```

674     \titlepage
675     \null\vfil
676     \section*{\SectFont\abstractname}
677     \noindent\ignorespaces}
678     {\par\vfil\null\endtitlepage}
679 \else
680 \renewenvironment{abstract}{%
681     \if@twocolumn
682     \section*{\abstractname}%
683     \else
684     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
685     \section*{\small\SectFont\abstractname}%
686     \noindent\ignorespaces
687     \fi}
688     {\if@twocolumn\else\par\egroup\fi}
689 \fi
690 \renewcommand*\@regtocline[3]{%
691     \ifnum #1>\c@tocdepth
692     \else
693     \vskip\z@\@plus.2\p@
694     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
695     \if@RTL\rightskip\else\leftskip\fi\unitindent
696     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
697     \parfillskip\z@
698     \@tempdima\unitindent
699     \parindent\z@
700     \leavevmode
701     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
702     \hskip 1em \nobreak{\slshape #3}\par
703     }%
704     \fi}
705 \if@oldtoc
706 \renewcommand*\l@part[2]{%
707     \ifnum \c@tocdepth >-2\relax
708     \addpenalty\@secpenalty
709     \addvspace{2.25em \@plus\p@}%
710     \begingroup
711     \setlength\@tempdima{3em}%
712     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
713     \parfillskip -\@pnumwidth
714     {\leavevmode
715     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
716     \nobreak
717     \if@compatibility
718     \global\@nobreaktrue
719     \everypar{\global\@nobreakfalse\everypar{}}%
720     \fi
721     \endgroup
722     \fi}
723 \else
724 \renewcommand*\l@part{%
725     \ifnum \c@tocdepth >-2\relax
726     \addpenalty\@secpenalty
727     \addvspace{2.25em \@plus \p@}%

```



```

728     \@regtocoline{0}%
729     \fi}
730 \fi
731 \if@oldtoc
732 \renewcommand*\l@section[2]{%
733     \addpenalty\@secpenalty
734     \addvspace{1.0em \@plus\p@}%
735     \setlength\@tempdima{1.5em}%
736     \begingroup
737     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
738     \parfillskip -\@pnumwidth
739     \leavevmode \bfseries
740     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
741     \hskip -\if@RTL\rightskip\else\leftskip\fi
742     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
743     \endgroup}
744 \else
745     \renewcommand*\l@section{\@regtocoline{1}}
746 \fi
747 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
748 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
749 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
750 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
751 \renewenvironment{thebibliography}[1]
752     {\section*\@refname}%
753     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
754     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
755     \bidi@thebibliography@font@hook%
756     \list{\@biblabel{\@arabic\c@enumiv}}%
757         {\settowidth\labelwidth{\@biblabel{#1}}%
758         \leftmargin\labelwidth
759         \advance\leftmargin\labelsep
760         \@openbib@code
761         \usecounter{enumiv}%
762         \let\p@enumiv\@empty
763         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
764     \sloppy\clubpenalty4000\widowpenalty4000%
765     \sfcode\.\@m}
766     {\def\@noitemerr
767         {\@latex@warning{Empty `thebibliography' environment}}}%
768     \endlist}
769 \renewcommand*\left@footnoterule{%
770     \kern-3\p@
771     \kern.5\baselineskip
772     \hrule\@width\unitindent
773     \kern.4\baselineskip
774 }
775 \renewcommand*\right@footnoterule{%
776     \kern-3\p@
777     \kern.5\baselineskip
778     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
779     \kern.4\baselineskip}
780 \if@titlepage
781 \renewcommand*\TitleFont{\rmfamily}

```



```

782 \renewcommand*\maketitle{%
783 \begin{titlepage}%
784 \let\footnotesize\small
785 \let\right@footnoterule\relax
786 \let\left@footnoterule\relax
787 \let\textwidth@footnoterule\relax
788 \let \footnote \thanks
789 \long\def \@makefntext##1{\parindent\z@
790 \def\labelitemi{\textendash}\@revlabeltrue
791 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
792 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
793 \if@compatibility\setcounter{page}{0}\fi
794 \null\vfil
795 \vskip 60\p@
796 \begin{center}%
797 \TitleFont
798 {\LARGE \def\{\{\penalty -\@M}
799 \if@allcaps
800 \expandafter\uc@nothanks\@title\thanks\relax
801 \else
802 \@title
803 \fi\par}%
804 \vskip 3em%
805 {\large
806 \lineskip .75em \parindent\z@
807 \begin{tabular}[t]{c}%
808 \if@allcaps
809 \expandafter\uc@authornothanks\@author\and\relax
810 \else
811 \@author
812 \fi
813 \end{tabular}\par}%
814 \vskip 1.5em%
815 {\large
816 \if@allcaps
817 \uppercase\expandafter{\@date}%
818 \else
819 \@date
820 \fi\par}%
821 \end{center}\par
822 \@thanks
823 \vfil\null
824 \end{titlepage}%
825 \setcounter{footnote}{0}%
826 \global\let\thanks\relax
827 \global\let\maketitle\relax
828 \global\let\@thanks\@empty
829 \global\let\@author\@empty
830 \global\let\@title\@empty
831 \global\let\@date\@empty
832 \global\let\title\relax
833 \global\let\author\relax
834 \global\let\date\relax
835 \global\let\and\relax

```



```

836 }
837 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
838 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
839 \futurelet\@tempa\uc@ax}
840 \def\uc@ax{%
841 \ifx\@tempa\relax
842 \else
843 \ \andname \ \expandafter\uc@authornothanks
844 \fi}
845 \def\uc@tx{\ifx\@tempa\relax
846 \else \expandafter\uc@ty \fi}
847 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
848 \else
849 \renewcommand*\maketitle{\par
850 \begingroup
851 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
852 \def\@makefnmark{\rlap{%
853 \textsuperscript{\normalfont\@thefnmark}}}%
854 \long\def\@makefntext{\@xmakefntext{%
855 \textsuperscript{\normalfont\@thefnmark}}}%
856 \iftwocolumn
857 \ifnum \col@number=\@ne
858 \maketitle
859 \else
860 \twocolumn[\maketitle]%
861 \fi
862 \else
863 \newpage
864 \global\@topnum\z@
865 \maketitle
866 \fi
867 \thispagestyle{plain}\@thanks
868 \endgroup
869 \setcounter{footnote}{0}%
870 \global\let\thanks\relax
871 \global\let\maketitle\relax
872 \global\let\@maketitle\relax
873 \global\let\@thanks\@empty
874 \global\let\@author\@empty
875 \global\let\@title\@empty
876 \global\let\@date\@empty
877 \global\let\title\relax
878 \global\let\author\relax
879 \global\let\date\relax
880 \global\let\and\relax
881 }
882 \def\@maketitle{%
883 \newpage
884 \null
885 \vskip 2em%
886 \begin{center}%
887 \let \footnote \thanks
888 {\LARGE \TitleFont \@title \par}%
889 \vskip 1.5em%

```



```

890   {\large \TitleFont
891     \lineskip .5em%
892     \begin{tabular}[t]{c}%
893       \@author
894     \end{tabular}\par}%
895   \vskip 1em%
896   {\large \TitleFont \@date}%
897 \end{center}%
898 \par
899 \vskip 1.5em}
900 \fi

```

## 11 File artikel2-xetex-bidi.def

```

901 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
902 \renewenvironment{theindex}{%
903   \if@twocolumn
904     \@restonecolfalse
905   \else
906     \@restonecoltrue
907   \fi
908   \columnseprule \z@
909   \columnsep 35\p@
910   \twocolumn[\section*{\indexname}]%
911   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
912   \thispagestyle{plain}\parindent\z@
913   \parskip\z@ \@plus .3\p@\relax
914   \let\item\@idxitem
915   }{%
916   \if@restonecol\onecolumn\else\clearpage\fi}
917 \renewcommand*{\@regtocline}[3]{%
918   \ifnum #1>\c@tocdepth
919   \else
920     \vskip\z@\@plus.2\p@
921     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
922       \if@RTL\righskip\else\leftskip\fi\unitindent
923       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
924       \parfillskip\z@
925       \@tempdima\unitindent
926       \advance\@tempdima by \othermargin
927       \parindent\z@
928       \leavevmode
929       \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
930       \hskip 1em \nobreak{\slshape #3}\par
931     }%
932   \fi}
933 \if@oldtoc
934 \renewcommand*{\l@section}[2]{%
935   \addpenalty\@secpenalty
936   \addvspace{1.0em \@plus\p@}%
937   \setlength\@tempdima{1.5em}%
938   \begingroup
939   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
940   \parfillskip -\@pnumwidth

```



```

941 \leavevmode \bfseries
942 \advance\if@RTL\rightskip\else\leftskip\fi@tempdima
943 \hskip -\if@RTL\rightskip\else\leftskip\fi
944 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
945 \endgroup}
946 \else
947 \renewcommand*\l@section{\@regtocline{1}}
948 \fi
949 \if@oldtoc
950 \renewcommand*\l@part[2]{%
951 \ifnum \c@tocdepth >-2\relax
952 \addpenalty\@secpenalty
953 \addvspace{2.25em \@plus\p@}%
954 \begingroup
955 \setlength\@tempdima{3em}%
956 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
957 \parfillskip -\@pnumwidth
958 {\leavevmode
959 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
960 \nobreak
961 \if@compatibility
962 \global\@nobreaktrue
963 \everypar{\global\@nobreakfalse\everypar{}}%
964 \fi
965 \endgroup
966 \fi}
967 \else
968 \renewcommand*\l@part{%
969 \ifnum \c@tocdepth >-2\relax
970 \addpenalty\@secpenalty
971 \addvspace{2.25em \@plus \p@}%
972 \@regtocline{0}%
973 \fi}
974 \fi
975 \renewcommand*\head@style{%
976 \interlinepenalty \@M
977 \hyphenpenalty=\@M \exhyphenpenalty=\@M
978 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
979 \if@titlepage
980 \renewenvironment{abstract}{%
981 \titlepage
982 \null\vfil
983 \section*{\SectFont\abstractname}%
984 \noindent\ignorespaces}
985 {\par\vfil\null\endtitlepage}
986 \else
987 \renewenvironment{abstract}{%
988 \if@twocolumn
989 \section*{\abstractname}%
990 \else
991 \section*{\hskip\unitindent\small\SectFont\abstractname}%
992 \list{}{\setlength\listparindent{\unitindent}%
993 \setlength\parindent {\z@}%
994 \setlength\leftmargin {\unitindent}%

```





```

995             \setlength\rightmargin  {\unitindent}%
996             \setlength\parsep      {\z@}}%
997     \item[]%
998     \fi}
999     {\if@twocolumn\else\par\endlist\fi}
1000 \fi
1001 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1002 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1003 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1004 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1005 \renewcommand*\left@footnoterule{%
1006     \kern-3\p@
1007     \hrule\@width 3\unitindent
1008     \kern 2.6\p@
1009 }
1010 \renewcommand*\right@footnoterule{%
1011     \kern-3\p@
1012     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1013     \kern 2.6\p@}
1014 \renewenvironment{thebibliography}[1]
1015     {\section*\refname}%
1016     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1017     \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
1018     \bidi@thebibliography@font@hook%
1019     \list{\@biblabel{\@arabic\c@enumiv}}%
1020         {\settowidth\labelwidth{\@biblabel{#1}}%
1021         \leftmargin\labelwidth
1022         \advance\leftmargin\labelsep
1023         \@openbib@code
1024         \usecounter{enumiv}%
1025         \let\p@enumiv\@empty
1026         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1027     \sloppy\clubpenalty4000\widowpenalty4000%
1028     \sfcode\.\@m}
1029     {\def\@noitemerr
1030     {\@latex@warning{Empty `thebibliography' environment}}}%
1031     \endlist}
1032 \if@titlepage
1033 \renewcommand*\TitleFont{\rmfamily}
1034 \renewcommand*\maketitle{%
1035     \begin{titlepage}%
1036         \let\footnotesize\small
1037         \let\right@footnoterule\relax
1038         \let\left@footnoterule\relax
1039         \let\textwidth@footnoterule\relax
1040         \let \footnote \thanks
1041         \long\def\@makefnmark##1{\parindent\z@
1042         \def\labelitemi{\textendash}\@revlabeltrue
1043         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1044     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1045     \if@compatibility\setcounter{page}{0}\fi
1046     \null\vfil
1047     \vskip 60\p@
1048     \begin{center}%

```



```

1049 \TitleFont
1050 {\LARGE \def\{\{\penalty -\@M}
1051 \if@allcaps
1052 \expandafter\uc@nothanks\@title\thanks\relax
1053 \else
1054 \@title
1055 \fi\par}%
1056 \vskip 3em%
1057 {\large
1058 \lineskip .75em \parindent\z@
1059 \begin{tabular}[t]{c}%
1060 \if@allcaps
1061 \expandafter\uc@authornothanks\@author\and\relax
1062 \else
1063 \@author
1064 \fi
1065 \end{tabular}\par}%
1066 \vskip 1.5em%
1067 {\large
1068 \if@allcaps
1069 \uppercase\expandafter{\@date}%
1070 \else
1071 \@date
1072 \fi\par}%
1073 \end{center}\par
1074 \@thanks
1075 \vfil\null
1076 \end{titlepage}%
1077 \setcounter{footnote}{0}%
1078 \global\let\thanks\relax
1079 \global\let\maketitle\relax
1080 \global\let\@thanks\@empty
1081 \global\let\@author\@empty
1082 \global\let\@title\@empty
1083 \global\let\@date\@empty
1084 \global\let\title\relax
1085 \global\let\author\relax
1086 \global\let\date\relax
1087 \global\let\and\relax
1088 }
1089 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1090 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1091 \futurelet\@tempa\uc@ax}
1092 \def\uc@ax{%
1093 \ifx\@tempa\relax
1094 \else
1095 \ \ \andname \ \ \expandafter\uc@authornothanks
1096 \fi}
1097 \def\uc@tx{\ifx\@tempa\relax
1098 \else \expandafter\uc@ty \fi}
1099 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1100 \else
1101 \renewcommand*\maketitle{\par
1102 \begingroup

```



```

1103 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1104 \long\def\@makefntext##1{\parindent\z@
1105 \def\labelitemi{\textendash}%
1106 \leavevmode\hb@xt@.5\unitindent{%
1107 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1108 \if@twocolumn
1109 \ifnum \col@number=\@ne
1110 \@maketitle
1111 \else
1112 \twocolumn[\@maketitle]%
1113 \fi
1114 \else
1115 \newpage
1116 \global\@topnum\z@
1117 \@maketitle
1118 \fi
1119 \thispagestyle{plain}\@thanks
1120 \endgroup
1121 \setcounter{footnote}{0}%
1122 \global\let\thanks\relax
1123 \global\let\maketitle\relax
1124 \global\let\@maketitle\relax
1125 \global\let\@thanks\@empty
1126 \global\let\@author\@empty
1127 \global\let\@title\@empty
1128 \global\let\@date\@empty
1129 \global\let\title\relax
1130 \global\let\author\relax
1131 \global\let\date\relax
1132 \global\let\and\relax
1133 }
1134 \def\@maketitle{%
1135 \newpage
1136 \null
1137 \vskip 2em%
1138 \begin{center}%
1139 \let \footnote \thanks
1140 {\LARGE \TitleFont \@title \par}%
1141 \vskip 1.5em%
1142 {\large \TitleFont
1143 \lineskip .5em%
1144 \begin{tabular}[t]{c}%
1145 \@author
1146 \end{tabular}\par}%
1147 \vskip 1em%
1148 {\large \TitleFont \@date}%
1149 \end{center}%
1150 \par
1151 \vskip 1.5em}
1152 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1153 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f

```



```

1154 \renewenvironment{theindex}{%
1155   \if@twocolumn
1156     \@restonecolfalse
1157   \else
1158     \@restonecoltrue
1159   \fi
1160   \columnseprule \z@
1161   \columnsep 35\p@
1162   \twocolumn[section*{\indexname}]%
1163   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1164   \thispagestyle{plain}\parindent\z@
1165   \parskip\z@ \@plus .3\p@\relax
1166   \let\item\@idxitem
1167 }{%
1168   \if@restonecol\onecolumn\else\clearpage\fi}
1169 \renewcommand*\head@style{%
1170   \interlinepenalty \@M
1171   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1172   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1173 \renewcommand*\@regtocline[3]{%
1174   \ifnum #1>\c@tocdepth
1175   \else
1176     \vskip\z@\@plus.2\p@
1177     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1178     \if@RTL\rightskip\else\leftskip\fi\unitindent
1179     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1180     \parfillskip\z@
1181     \@tempdima\unitindent
1182     \parindent\z@
1183     \leavevmode
1184     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1185     \hskip 1em \nobreak{\slshape #3}\par
1186   }%
1187   \fi}
1188 \if@oldtoc
1189 \renewcommand*\l@part[2]{%
1190   \ifnum \c@tocdepth >-2\relax
1191     \addpenalty\@secpenalty
1192     \addvspace{2.25em \@plus\p@}%
1193     \begingroup
1194       \setlength\@tempdima{3em}%
1195       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1196       \parfillskip -\@pnumwidth
1197       {\leavevmode
1198         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1199         \nobreak
1200         \if@compatibility
1201           \global\@nobreaktrue
1202           \everypar{\global\@nobreakfalse\everypar{}}%
1203         \fi
1204       \endgroup
1205   \fi}
1206 \else
1207   \renewcommand*\l@part{%

```



```

1208 \ifnum \c@tocdepth >-2\relax
1209 \addpenalty\@secpenalty
1210 \advvspace{2.25em \@plus \p@}%
1211 \@regtocline{0}%
1212 \fi}
1213 \fi
1214
1215 \if@oldtoc
1216 \renewcommand*\l@section[2]{%
1217 \addpenalty\@secpenalty
1218 \advvspace{1.0em \@plus \p@}%
1219 \setlength\@tempdima{1.5em}%
1220 \begingroup
1221 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1222 \parfillskip -\@pnumwidth
1223 \leavevmode \bfseries
1224 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1225 \hskip -\if@RTL\rightskip\else\leftskip\fi
1226 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1227 \endgroup}
1228 \else
1229 \renewcommand*\l@section{\@regtocline{1}}
1230 \fi
1231 \if@titlepage
1232 \renewenvironment{abstract}{%
1233 \titlepage
1234 \null\vfil
1235 \section*{\SectFont\abstractname}%
1236 \noindent\ignorespaces}
1237 {\par\vfil\null\endtitlepage}
1238 \else
1239 \renewenvironment{abstract}{%
1240 \if@twocolumn
1241 \section*{\abstractname}%
1242 \else
1243 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1244 \section*{\small\SectFont\abstractname}%
1245 \noindent\ignorespaces
1246 \fi}
1247 {\if@twocolumn\else\par\egroup\fi}
1248 \fi
1249 \renewcommand*\left@footnoterule{%
1250 \kern-3\p@
1251 \kern.5\baselineskip
1252 \hrule\@width\unitindent
1253 \kern.4\baselineskip
1254 }
1255 \renewcommand*\right@footnoterule{%
1256 \kern-3\p@
1257 \kern.5\baselineskip
1258 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1259 \kern.4\baselineskip}
1260 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1261 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

1262 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1263 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1264 \renewenvironment{thebibliography}[1]
1265     {\section*\refname}%
1266     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1267     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1268     \bidi@thebibliography@font@hook%
1269     \list{\@biblabel{\@arabic\c@enumiv}}%
1270         {\settowidth\labelwidth{\@biblabel{#1}}%
1271         \leftmargin\labelwidth
1272         \advance\leftmargin\labelsep
1273         \@openbib@code
1274         \usecounter{enumiv}}%
1275     \let\p@enumiv\@empty
1276     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1277     \sloppy\clubpenalty4000\widowpenalty4000%
1278     \sfcode\.\@m}
1279     {\def\@noitemerr
1280     {\@latex@warning{Empty `thebibliography' environment}}}%
1281     \endlist}
1282 \if@titlepage
1283 \renewcommand*\TitleFont{\rmfamily}
1284 \renewcommand*\maketitle{%
1285 \begin{titlepage}%
1286 \let\footnotesize\small
1287 \let\right@footnoterule\relax
1288 \let\left@footnoterule\relax
1289 \let\textwidth@footnoterule\relax
1290 \let \footnote \thanks
1291 \long\def\@makefntext##1{\parindent\z@
1292 \def\labelitemi{\textendash}\@revlabeltrue
1293 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1294 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1295 \if@compatibility\setcounter{page}{0}\fi
1296 \null\vfil
1297 \vskip 60\p@
1298 \begin{center}%
1299 \TitleFont
1300 {\LARGE \def\{\{\penalty -\@M}
1301 \if@allcaps
1302 \expandafter\uc@nothanks\@title\thanks\relax
1303 \else
1304 \@title
1305 \fi\par}%
1306 \vskip 3em%
1307 {\large
1308 \lineskip .75em \parindent\z@
1309 \begin{tabular}[t]{c}%
1310 \if@allcaps
1311 \expandafter\uc@authornothanks\@author\and\relax
1312 \else
1313 \@author
1314 \fi
1315 \end{tabular}\par}%

```



```

1316     \vskip 1.5em%
1317     {\large
1318     \if@allcaps
1319     \uppercase\expandafter{\@date}%
1320     \else
1321     \@date
1322     \fi\par}%
1323     \end{center}\par
1324     \@thanks
1325     \vfil\null
1326 \end{titlepage}%
1327 \setcounter{footnote}{0}%
1328 \global\let\thanks\relax
1329 \global\let\maketitle\relax
1330 \global\let\@thanks\@empty
1331 \global\let\@author\@empty
1332 \global\let\@title\@empty
1333 \global\let\@date\@empty
1334 \global\let\title\relax
1335 \global\let\author\relax
1336 \global\let\date\relax
1337 \global\let\and\relax
1338 }
1339 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1340 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1341     \futurelet\@tempa\uc@ax}
1342 \def\uc@ax{%
1343     \ifx\@tempa\relax
1344     \else
1345     \ \andname \ \ \expandafter\uc@authornothanks
1346     \fi}
1347 \def\uc@tx{\ifx\@tempa\relax
1348     \else \expandafter\uc@ty \fi}
1349 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1350 \else
1351 \renewcommand*\maketitle{\par
1352     \begingroup
1353     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1354     \def\@makefnmark{\rlap{%
1355     \@textsuperscript{\normalfont\@thefnmark}}}%
1356     \long\def\@makefntext{\@xmakefntext{%
1357     \@textsuperscript{\normalfont\@thefnmark}}}%
1358     \if@twocolumn
1359     \ifnum \col@number=\@ne
1360     \@maketitle
1361     \else
1362     \twocolumn[\@maketitle]%
1363     \fi
1364     \else
1365     \newpage
1366     \global\@topnum\z@
1367     \@maketitle
1368     \fi
1369     \thispagestyle{plain}\@thanks

```



```

1370 \endgroup
1371 \setcounter{footnote}{0}%
1372 \global\let\thanks\relax
1373 \global\let\maketitle\relax
1374 \global\let\@maketitle\relax
1375 \global\let\@thanks\@empty
1376 \global\let\@author\@empty
1377 \global\let\@title\@empty
1378 \global\let\@date\@empty
1379 \global\let\title\relax
1380 \global\let\author\relax
1381 \global\let\date\relax
1382 \global\let\and\relax
1383 }
1384 \def\@maketitle{%
1385   \newpage
1386   \null
1387   \vskip 2em%
1388   \if@titlecentered
1389     \begin{center}%
1390       \let \footnote \thanks
1391       {\LARGE \TitleFont \@title \par}%
1392       \vskip 1.5em%
1393       {\large \TitleFont
1394         \lineskip .5em%
1395         \begin{tabular}[t]{c}%
1396           \@author
1397         \end{tabular}\par}%
1398       \vskip 1em%
1399       {\large \TitleFont \@date}%
1400     \end{center}%
1401   \else
1402     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1403     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1404       \def\and{%%} \begin{tabular} has already started
1405         \end{tabular}\hskip 1em plus .17fil
1406         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1407         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1408       \vskip 1em {\large \TitleFont \@date}
1409   \fi
1410   \par
1411   \vskip 1.5em}
1412 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1413 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1414 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1415 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1416 \expandafter\let\csname endtabular*\endcsname\endtabular
1417 \let\adl@array\@array
1418 \def\@array{\adl@everyvbox\everyvbox
1419   \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1420   \ifadl@inactive \adl@inactivate \else \adl@activate \fi

```





```

1421         \let\adl@noalign\noalign
1422         \adl@array}
1423 \ifadl@usingarypkg
1424 \def\@testpach{\@chclass
1425 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1426 \ifnum \@lastchclass=7 5 \else
1427 \ifnum \@lastchclass=8 \tw@ \else
1428 \ifnum \@lastchclass=9 \thr@@
1429 \else \z@
1430 \ifnum \@lastchclass = 10 \else
1431 \edef\@nextchar{\expandafter\string\@nextchar}%
1432 \@chnum
1433 \if \@nextchar c\z@ \else
1434 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1435 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1436 \z@ \@chclass
1437 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1438 \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1439 \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1440 \if \@nextchar !6 \else
1441 \if \@nextchar @7 \else
1442 \if \@nextchar <8 \else
1443 \if \@nextchar >9 \else
1444 10
1445 \@chnum
1446 \if \@nextchar m\thr@@\else
1447 \if \@nextchar p4 \else
1448 \if \@nextchar b5 \else
1449 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1450 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1451
1452 \def\@classz{\@classx
1453 \@tempcnta \count@
1454 \prepnext@tok
1455 \@addtopreamble{\ifcase \@chnum
1456 \hfil
1457 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1458 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1459 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1460 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1461 \adl@endmbox\or
1462 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1463 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1464 \fi}\prepnext@tok}
1465 \def\adl@class@start{4}
1466 \def\adl@class@iiiorvii{7}
1467
1468 \else
1469 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1470 \ifnum \@lastchclass=\thr@@ 5\relax \else
1471 \z@ \if #1c\@chnum \z@ \else
1472 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1473 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1474 \@chclass

```



```

1475         \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1476         \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1477         \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1478         \if #1\@tw@ \else
1479         \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1480     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1481
1482 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1483     \or \or \@addamp \or
1484     \@acolampacol \or \@firstampfalse \@acol \fi
1485     \edef\@preamble{\@preamble
1486     \ifcase \@chnum
1487     \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1488     \or \adl@putlrc{\$relax\@sharp$}\hfil
1489     \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1490 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1491     \or \or \@addamp \or
1492     \@acolampacol \or \@firstampfalse \@acol \fi
1493     \edef\@preamble{\@preamble
1494     \ifcase \@chnum
1495     \hfil\adl@putlrc{\@sharp\unskip}\hfil
1496     \or \adl@putlrc{\@sharp\unskip}\hfil
1497     \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1498 \def\adl@class@start{6}
1499 \def\adl@class@iiiorvii{3}
1500 \fi
1501 \ApplyPatchCodeToPackage{colortbl}{%
1502 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1503 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1504     \let\@endpbox\adl@org@endpbox}
1505 \let\adl@CT@setup\CT@setup
1506 \def\CT@setup{\adl@CT@setup
1507     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1508     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1509     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1510 \let\adl@act@CT@setup\CT@setup
1511 \def\@classz{\@classx
1512     \@tempcnta\count@ \prepnext@tok
1513     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1514     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1515     \expandafter\adl@extract@drsc
1516     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1517     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1518     \@addtopreamble{\if@RTL\beginL\fi%
1519     \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1520     \ifcase \@chnum
1521     \hskip\stretch{.5}\kern\z@
1522     \dollarbegin
1523     \insert@column
1524     \dollarend\hskip\stretch{.5}%
1525     \or \dollarbegin \insert@column \dollarend \hfill
1526     \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1527     \or $\vcenter
1528     \@startpbox{\@nextchar}\insert@column \@endpbox $%

```



```

1529         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1530         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1531         \fi
1532         \if@RTL\endR\fi\egroup\egroup
1533         \begin@group
1534             \CT@setup
1535             \CT@column@color
1536             \CT@row@color
1537             \CT@cell@color
1538             \CT@do@color
1539         \end@group
1540         \@tempdima\ht\z@
1541         \advance\@tempdima\minrowclearance
1542         \vrule\@height\@tempdima\@width\z@
1543         \unhbox\z@\if@RTL\endL\fi}%
1544     \prepnext@tok}
1545 \let\adl@act@classz\@classz
1546 \let\adl@org@classz\@classz
1547 }

```

## 14 File beamer-xetex-bidi.def

```

1548 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for X
1549 \AtBeginDocument{%
1550     \if@RTLmain
1551         \raggedleft
1552     \else
1553         \raggedright
1554     \fi
1555 }
1556
1557 \renewcommand*{\bidi@beamer@ragged}{%
1558     \if@RTL
1559         \raggedleft
1560     \else
1561         \raggedright
1562     \fi
1563 }
1564
1565

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1566 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1567 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1568
1569 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1570
1571 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1572
1573 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1576

```



```

1577 \defbeamertemplate{subsection in toc}{sections numbered}
1578 {\leavevmode\ bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1579
1580 \defbeamertemplate{subsubsection in toc}{sections numbered}
1581 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\ bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}%
1582 \inserttocsubsubsection\par}
1583
1584 \defbeamertemplate{section in toc}{subsections numbered}
1585 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsection\par}
1586
1587 \defbeamertemplate{subsection in toc}{subsections numbered}
1588 {\leavevmode\ bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}%
1589 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1590 {\leavevmode\normalsize\usebeamerfont{subsection in
1591 toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1592 \inserttocsubsubsection\par}
1593
1594
1595 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1596
1597 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1598
1599 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1600
1601 \defbeamertemplate{section in toc}{circle}
1602 {\leavevmode\ bidi@beamer@leftskip=2ex%
1603 \llap{%
1604 \usebeamerfont*{section number projected}%
1605 \usebeamerfont{section number projected}%
1606 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1607 \color{bg}
1608 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1609 \pgfusepath{fill}
1610 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1611 \end{pgfpicture}\kern1.25ex%
1612 }%
1613 \inserttocsection\par}
1614
1615 \defbeamertemplate{subsection in toc}{circle}
1616 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsubsection\par}
1617
1618 \defbeamertemplate{subsubsection in toc}{circle}
1619 {\leavevmode\normalsize\usebeamerfont{subsection in
1620 toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1621 \inserttocsubsubsection\par}
1622
1623 \bidi@csundef{beamer@@tmpop@section in toc@square}
1624
1625 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1626
1627 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1628
1629 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1630

```



```

1631 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1632
1633 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1636
1637 \defbeamertemplate{section in toc}{square}
1638 {\leavevmode\bidi@beamer@leftskip=3ex%
1639  \llap{%
1640   \usebeamerfont*{section number projected}%
1641   \usebeamercolor[bg]{section number projected}%
1642   \if@RTL
1643   \else
1644     \vrule width2.25ex height1.85ex depth.4ex%
1645     \hskip-2.25ex%
1646   \fi
1647   \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1648   \if@RTL
1649     \hskip-2.25ex%
1650     \vrule width2.25ex height1.85ex depth.4ex%
1651   \fi
1652   }\kern1.25ex}%
1653 \inserttocsection\par}
1654
1655 \defbeamertemplate{subsection in toc}{square}
1656 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1657   \usebeamercolor[bg]{subsection number projected}%
1658   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1659
1660 \defbeamertemplate{subsubsection in toc}{square}
1661 {\leavevmode\normalsize\usebeamerfont{subsection in
1662  toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1663  \llap{%
1664   \usebeamercolor[bg]{subsubsection number projected}%
1665   \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1666
1667 \defbeamertemplate{enumerate item}{square}
1668 {
1669  \hbox{%
1670   \usebeamerfont*{item projected}%
1671   \usebeamercolor[bg]{item projected}%
1672   \if@RTL
1673   \else
1674     \vrule width2.25ex height1.85ex depth.4ex%
1675     \hskip-2.25ex%
1676   \fi
1677   \hbox to2.25ex{%
1678     \hfil%
1679     \color{fg}\insertenumlabel%
1680     \hfil}}%
1681   \if@RTL
1682     \hskip-2.25ex%
1683     \vrule width2.25ex height1.85ex depth.4ex%
1684   \fi

```



```

1685 }}%
1686 }
1687 [action]
1688 {\setbeamerfont{item projected}{size=\scriptsize}}
1689
1690 \defbeamertemplate{enumerate subitem}{square}
1691 {
1692   \hbox{%
1693     \usebeamerfont*{subitem projected}%
1694     \usebeamercolor[bg]{subitem projected}%
1695     \if@RTL
1696     \else
1697       \vrule width2.25ex height1.85ex depth.4ex%
1698       \hskip-2.25ex%
1699     \fi
1700     \hbox to2.25ex{%
1701       \hfil%
1702       \color{fg}\insertsubenumlabel%
1703       \hfil}}%
1704     \if@RTL
1705       \hskip-2.25ex%
1706       \vrule width2.25ex height1.85ex depth.4ex%
1707     \fi
1708   }}%
1709 }
1710
1711 \defbeamertemplate{enumerate subsubitem}{square}
1712 {
1713   \hbox{%
1714     \usebeamerfont*{subitem projected}%
1715     \usebeamercolor[bg]{subsubitem projected}%
1716     \if@RTL
1717     \else
1718       \vrule width2.25ex height1.85ex depth.4ex%
1719       \hskip-2.25ex%
1720     \fi
1721     \hbox to2.25ex{%
1722       \hfil%
1723       \color{fg}\insertsubsubenumlabel%
1724       \hfil}}%
1725     \if@RTL
1726       \hskip-2.25ex%
1727       \vrule width2.25ex height1.85ex depth.4ex%
1728     \fi
1729   }}%
1730 }
1731
1732 \defbeamertemplate{enumerate mini template}{square}
1733 {
1734   \hbox{%
1735     \usebeamerfont*{\beameritemnestingprefix item projected}%
1736     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1737     \if@RTL
1738     \else

```



```

1739     \vrule width2.25ex height1.85ex depth.4ex%
1740     \hskip-2.25ex%
1741   \fi
1742   \hbox to2.25ex{%
1743     \hfil%
1744     \color{fg}\insertenumlabel%
1745     \hfil}}%
1746   \if@RTL
1747     \hskip-2.25ex%
1748     \vrule width2.25ex height1.85ex depth.4ex%
1749   \fi
1750 }}%
1751 }
1752
1753 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1754
1755 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1756
1757 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1758
1759 \defbeamer@template{section in toc}{ball unnumbered}
1760 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1761   \llap{%
1762     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1763   \inserttocsection\par}
1764
1765 \defbeamer@template{subsection in toc}{ball unnumbered}
1766 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1767   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1768
1769 \defbeamer@template{subsubsection in toc}{ball unnumbered}
1770 {\leavevmode\normalsize\usebeamerfont{subsection in
1771   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1772   \llap{%
1773     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1774
1775 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1776
1777 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1778
1779 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1780
1781 \defbeamer@template{section in toc}{ball}
1782 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1783   \llap{%
1784     \normalsize%
1785     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1786       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1787       \pgftext{%
1788         \usebeamerfont*{section number projected}%
1789         \usebeamerfont*{section number projected}%
1790         \color{fg!90!bg}%
1791         \inserttocsectionnumber}
1792     \end{pgfpicture}%

```



```

1793     \kern1.25ex}%
1794 \inserttocsection\par
1795 }
1796 [action]
1797 {\setbeamerfont{section number projected}{size=\scriptsize}}
1798
1799 \defbeamertemplate{subsection in toc}{ball}
1800 {\leavevmode\ bidi@beamer@leftskip=5ex%
1801  \llap{\raise0.1ex\ beamer@usesphere{subsection number projected}{bigsphere}\ kern1ex}%
1802  \inserttocsubsection\par%
1803 }
1804
1805 \defbeamertemplate{subsubsection in toc}{ball}
1806 {\leavevmode\normalsize\ usebeamerfont{subsection in
1807   toc}\ bidi@beamer@leftskip=7ex\ usebeamerfont{subsubsection in toc}%
1808  \llap{\ beamer@usesphere{subsubsection number projected}{bigsphere}\ kern0.75ex}%
1809  \inserttocsubsubsection\par%
1810 }
1811
1812 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1813
1814 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1815
1816 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1817
1818 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1819 {%
1820  \par\vskip\medskipamount%
1821  \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1822    {\raggedright\ usebeamerfont*{block title}\ insertblocktitle}%
1823    \bidi@beamer@ragged%
1824    \usebeamerfont{block body}%
1825  }%
1826
1827 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1828 {%
1829  \par\vskip\medskipamount%
1830  \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1831    {\raggedright\ usebeamerfont*{block title alerted}\ insertblocktitle}%
1832    \bidi@beamer@ragged%
1833    \usebeamerfont{block body alerted}%
1834  }%
1835
1836 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1837 {%
1838  \par\vskip\medskipamount%
1839  \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1840    {\raggedright\ usebeamerfont*{block title example}\ insertblocktitle}%
1841    \bidi@beamer@ragged%
1842    \usebeamerfont{block body example}%
1843  }%
1844
1845 \bidi@csundef{beamer@@tmpop@caption@numbered}
1846

```





```

1847 \defbeamertemplate{caption}{numbered}
1848 {%
1849   \leavevmode
1850   \bidi@beamer@ragged
1851   {%
1852     \usebeamercolor[fg]{caption name}%
1853     \usebeamerfont*{caption name}%
1854     \insertcaptionname~\insertcaptionnumber
1855     \usebeamertemplate{caption label separator}%
1856   }%
1857   \insertcaption\par
1858 }
1859
1860 \bidi@csundef{beamer@tmpop@caption@caption name own line}
1861
1862 \defbeamertemplate{caption}{caption name own line}
1863 {%
1864   \begin{minipage}{\textwidth}
1865     \leavevmode
1866     \bidi@beamer@ragged
1867     {%
1868       \usebeamercolor[fg]{caption name}%
1869       \usebeamerfont*{caption name}%
1870       \insertcaptionname%
1871     }\\
1872     \insertcaption
1873   \end{minipage}
1874 }
1875
1876 \ApplyPatchCodeToPackage{caption}{%
1877   \DeclareCaptionFont{beamer@font}{%
1878     \usebeamerfont*{caption}%
1879   }%
1880 }
1881 \SetCaptionDefault{font}{beamer@font}
1882 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1883 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1884 }
1885

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1886 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1887 \renewcommand\beamerboxesrounded[2] []{%
1888   \global\let\beamer@firstlineitemizeunskip=\relax%
1889   \vbox\bgroup%
1890   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1891   \setkeys{beamerboxes}{#1}%
1892   {%
1893     \usebeamercolor{\bmb@lower}%
1894     \globalcolorstrue%
1895     \colorlet{lower.bg}{bg}%
1896   }%
1897   {%

```



```

1898 \usebeamercolor{\bmb@upper}%
1899 \globalcolorstrue%
1900 \colorlet{upper.bg}{bg}%
1901 }%
1902 %
1903 % Typeset head
1904 %
1905 \vskip4bp
1906 \setbox\bmb@box=\hbox{%
1907 \begin{minipage}[b]{\bmb@width}%
1908 \usebeamercolor[fg]{\bmb@upper}%
1909 #2%
1910 \end{minipage}}%
1911 \ifdim\wd\bmb@box=0pt%
1912 \setbox\bmb@box=\hbox{}%
1913 \ht\bmb@box=1.5pt%
1914 \bmb@prevheight=-4.5pt%
1915 \else%
1916 \wd\bmb@box=\bmb@width%
1917 \bmb@temp=\dp\bmb@box%
1918 \ifdim\bmb@temp<1.5pt%
1919 \bmb@temp=1.5pt%
1920 \fi%
1921 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1922 \dp\bmb@box=0pt%
1923 \bmb@prevheight=\ht\bmb@box%
1924 \fi%
1925 \bmb@temp=\bmb@width%
1926 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1927 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1928 \hbox{%
1929 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1930 \ifdim\wd\bmb@box=0pt%
1931 \color{lower.bg}%
1932 \else%
1933 \color{upper.bg}%
1934 \fi%
1935 \pgfpathmoveto{-4bp}{-1bp}
1936 \pgfpathcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1937 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1938 \pgfpathcurveto%
1939 {\pgfpoint{\bmb@dima}{3bp}}%
1940 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1941 {\pgfpoint{\bmb@dimb}{-1bp}}%
1942 \bmb@dima=-\ht\bmb@box%
1943 \advance\bmb@dima by-2pt%
1944 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1945 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1946 \pgfusepath{fill}
1947 \end{pgfpicture}%
1948 \copy\bmb@box%
1949 }%
1950 \nointerlineskip%
1951 \vskip-1pt%

```



```

1952 \ifdim\wd\bmb@box=0pt%
1953 \else%
1954 \hbox{%
1955   \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1956     \bmb@dima=\bmb@width%
1957     \advance\bmb@dima by8bp%
1958     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1959     \pgfusepath{clip}
1960     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1961   \end{pgfpicture}%
1962 }%
1963 \nointerlineskip%
1964 \vskip-0.5pt%
1965 \fi%
1966 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1967 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1968   \vskip2pt%
1969   \usebeamercolor[fg]{\bmb@lower}%
1970   \colorlet{beamerstructure}{upper.bg}%
1971   \colorlet{structure}{upper.bg}%
1972   %\color{.}%
1973   \@bidi@list@minipage@parboxfalse
1974 }
1975
1976 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1977   \begingroup
1978   \@RTLfalse
1979 }{}{}
1980
1981

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1982 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1983 \renewenvironment{beamercolorbox}[2] [] {%
1984   \def\beamer@vmode{\leavevmode}%
1985   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1986     leftskip=Opt,rightskip=Opt plus1fil,%
1987     sep=Opt,colsep=Opt,colsep*=0pt,%
1988     shadow=false,rounded=false,ignorebg=false}%
1989   \if@RTL
1990     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1991   \else
1992     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1993   \fi
1994   \setkeys{beamercolbox}{#1}%
1995   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1996   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1997   \def\beamer@colbox@color{#2}%
1998   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1999     \ifbeamer@colbox@ignorebg%
2000       \colorlet{beamer@temp@color}{bg}%
2001       \usebeamercolor[fg]{#2}%
2002       \colorlet{bg}{beamer@temp@color}%

```



```

2003 \else%
2004 \usebeamercolor[fg]{#2}%
2005 \fi%
2006 \beginL
2007 \vbox\bgroup%
2008 \hsize=\beamer@colbox@wd%
2009 \@arrayparboxrestore%
2010 \leftskip=\beamer@colbox@ls%
2011 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2012 \rightskip=\beamer@colbox@rs%
2013 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2014 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2015 \advance\leftskip by\beamer@colbox@colsep%
2016 \advance\rightskip by\beamer@colbox@colsep%
2017 \vskip\beamer@colbox@colsep%
2018 \fi%
2019 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2020 \fi%
2021 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2022 \beamer@vmode\ignorespaces}{%
2023 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2024 \if@tempswa
2025 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2026 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2027 \fi%
2028 \egroup\endL\color@endgroup\egroup%
2029 \wd\beamer@tempbox=\beamer@colbox@wd%
2030 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2031 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2032 \ifbeamer@colbox@rounded%
2033 \if@tempswa%
2034 \begin{beamerboxesrounded}[%
2035 shadow=\beamer@colbox@shadow,%
2036 lower=\beamer@colbox@color,%
2037 upper=normal text,%
2038 width=\beamer@colbox@wd]{%
2039 \box\beamer@tempbox%
2040 \end{beamerboxesrounded}%
2041 \else%
2042 \ifdim\wd\beamer@tempbox>\textwidth%
2043 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2044 \fi%
2045 \box\beamer@tempbox%
2046 \fi%
2047 \else%
2048 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2049 \usebeamercolor{\beamer@colbox@color}%
2050 \hskip-\beamer@colbox@colseps%
2051 \fboxsep=\z@\colorbox{bg}{%
2052 \hskip\beamer@colbox@colseps%
2053 \box\beamer@tempbox%
2054 \hskip\beamer@colbox@colseps%
2055 }%
2056 \hskip-\beamer@colbox@colseps%

```



```

2057     }\fi%
2058     \ifdim\wd\beamer@tempbox>\textwidth%
2059         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2060         \fi%
2061     \box\beamer@tempbox%
2062 \fi%
2063 }
2064
2065

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

2066 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2067 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2068
2069

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

2070 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2071 \renewcommand{\setbeamer-size}[1]{%
2072     \beamer@dogeometryfalse%
2073     \setkeys{beamer@margin}{#1}%
2074     \ifbeamer@dogeometry%
2075         % Reset left margin now
2076         \beamer@tempdim=\beamer@leftmargin%
2077         \advance\beamer@tempdim by\beamer@leftsidebar%
2078         \if@RTLmain
2079             \geometry{right=\the\beamer@tempdim}%
2080         \else
2081             \geometry{left=\the\beamer@tempdim}%
2082         \fi
2083         % Reset right margin now
2084         \beamer@tempdim=\beamer@rightmargin%
2085         \advance\beamer@tempdim by\beamer@rightsidebar%
2086         \if@RTLmain
2087             \geometry{left=\the\beamer@tempdim}%
2088         \else
2089             \geometry{right=\the\beamer@tempdim}%
2090         \fi
2091     \fi%
2092 }
2093
2094 \newcommand*\bidi@beamer@Gm@lmargin}{%
2095     \if@RTLmain
2096         \Gm@rmargin
2097     \else
2098         \Gm@lmargin
2099     \fi
2100 }
2101
2102 \newcommand*\bidi@beamer@Gm@rmargin}{%
2103     \if@RTLmain
2104         \Gm@lmargin

```



```

2105 \else
2106   \Gm@rmargin
2107 \fi
2108 }
2109
2110 \def\ps@navigation{
2111   \def\@oddhead{%
2112     \begingroup%
2113     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2114     \beamer@tempdim=\ht\beamer@tempbox%
2115     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2116     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2117     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2118     \beamer@tempdim=\ht\@tempboxa%
2119     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2120     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2121     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2122     \hbox{%
2123       {%
2124         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2125         \if@RTLmain
2126           {%
2127             \vbox to \sidebarheight{%
2128               \usebeamertemplate***{sidebar left}%
2129               \vfil%
2130             }}%
2131             \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2132               \hskip-\textwidth
2133             }%
2134             \fi
2135             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2136               \usebeamercolor*{sidebar left}%
2137               \usebeamertemplate{sidebar canvas left}%
2138               \vss%
2139             }}%
2140             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2141             \box\beamer@tempbox}%
2142             \if@RTLmain
2143             \else
2144             {%
2145               \vbox to \sidebarheight{%
2146                 \usebeamertemplate***{sidebar left}%
2147                 \vfil%
2148               }}\fi}%
2149             \beamer@tempdim=\ht\beamer@tempbox%
2150             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2151             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2152             \box\beamer@tempbox%
2153           }%
2154           {% print right sidebar first, since it should be overwritten by headline
2155             \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2156             \if@RTLmain
2157               {%
2158                 \vbox to \sidebarheight{%

```



```

2159         \usebeamertemplate***{sidebar right}%
2160         \vfil%
2161     }}%
2162     \hskip-\textwidth
2163     \fi
2164     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2165         \usebeamercolor*{sidebar right}%
2166         \usebeamertemplate{sidebar canvas right}%
2167         \vss%
2168     }}%
2169     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2170     \box\beamer@tempbox}%
2171     \if@RTLmain
2172     \else
2173     {%
2174     \vbox to \sidebarheight{%
2175     \usebeamertemplate***{sidebar right}%
2176     \vfil%
2177     }}\fi}%
2178     \beamer@tempdim=\ht\beamer@tempbox%
2179     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2180     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2181     \box\beamer@tempbox%
2182     }%
2183     \beamer@typesetheadorfoot{headline}%
2184     }%
2185     \hfil}%
2186 \endgroup}
2187 \def\@oddfoot{%
2188     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}}}%
2189     \hfil}\hbox{}}\hfil
2190 }%
2191 \let\@evenhead\@oddhead
2192 \let\@evenfoot\@oddfoot}
2193
2194 \AtBeginDocument{%
2195     \pagestyle{navigation}%
2196 }
2197
2198 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2199     {\parskip0pt\offinterlineskip%
2200     \hbox{%
2201         \hskip-\bidi@beamer@Gm@lmargin%
2202         \hbox{%
2203             \vbox{%
2204                 \@tempdima=\textwidth%
2205                 \textwidth=\paperwidth%
2206                 \hsize=\textwidth%
2207                 \def\{,%
2208                 \usebeamertemplate***{#1}%
2209             }}%
2210             \hskip-\bidi@beamer@Gm@rmargin%
2211         }}\hfil%
2212 }

```



```

2213
2214 \def\ps@empty{%
2215   \let\@mkboth\@gobbletwo%
2216   \def\@oddhead{\begin{group}
2217     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}
2218     \beamer@tempdim=\ht\beamer@tempbox%
2219     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2220     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2221     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2222     \beamer@tempdim=\ht\@tempboxa%
2223     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2224     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2225     \vbox{\hbox{\hspace-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}}
2226     \end{group}%
2227   }
2228   \def\@oddfoot{\normalcolor\hfill%
2229     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hspace-\bidi@beamer@tempdim}
2230     \ht\beamer@tempbox=0pt%
2231     \dp\beamer@tempbox=0pt%
2232     \box\beamer@tempbox}}
2233   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2234
2235 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2236   \beamer@colclose\def\beamer@colclose{}%
2237   \begin{actionenv}#3%
2238     \setkeys{beamer@col}{#1}%
2239     \begin{minipage}[\beamer@colalign]{#2}%
2240       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2241     \end{minipage}\hfill\end{actionenv}\@ignoretrue}
2242 \let\endcolumn\endbeamer@columnenv
2243
2244 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2245   \beamer@colclose%
2246   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2247   \begin{actionenv}#3%
2248     \setkeys{beamer@col}{#1}%
2249     \begin{minipage}[\beamer@colalign]{#2}%
2250       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2251
2252 \renewenvironment<>{columns}[1][]{%
2253   \begin{actionenv}#2%
2254   \ifbeamer@onlytextwidth
2255     \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2256     \def\beamer@colexitcode{\unskip\egroup}
2257   \else%
2258     \def\beamer@colentrycode{%
2259       \hbox to\textwidth\bgroup%
2260       \leavevmode%
2261       \hspace-\beamer@leftmargin%
2262       \nobreak%
2263       \beamer@tempdim=\textwidth%
2264       \advance\beamer@tempdim by\beamer@leftmargin%
2265       \advance\beamer@tempdim by\beamer@rightmargin%
2266       \hbox to\beamer@tempdim\bgroup%

```





```

2267     \hbox{}\hfill\ignorespaces}%
2268     \def\beamer@colexitcode{\egroup%
2269     \nobreak%
2270     \hskip-\beamer@rightmargin\egroup}%
2271 \fi%
2272 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2273 \setkeys{beamer@col}{#1}%
2274 \par%
2275 \leavevmode
2276 \beamer@colentrycode%
2277 \def\beamer@colclose{\ignorespaces}%
2278 {\beamer@colclose\def\beamer@colclose{\beamer@colexitcode\end{actionenv}}}%
2279
2280
2281 \def\@makeRTLfnctext#1{%
2282   \def\insertfootnotetext{#1}%
2283   \def\insertfootnotemark{\@makefnmark}%
2284   \usebeamertemplate***{RTLfootnote}}
2285
2286 \def\@makeLTRfnctext#1{%
2287   \def\insertfootnotetext{#1}%
2288   \def\insertfootnotemark{\@makefnmark}%
2289   \usebeamertemplate***{LTRfootnote}}
2290
2291 \renewcommand<>\beamer@framefootnotetext[1]{%
2292   \global\setbox\beamer@footins\vbox{%
2293     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2294     \hsize\framewidth
2295     \textwidth\hsize
2296     \columnwidth\hsize
2297     \unvbox\beamer@footins
2298     \reset@font
2299     \bidi@@footnotetext@font
2300     \@parboxrestore
2301     \protected@edef\@currentlabel
2302       {\csname p@footnote\endcsname\@thefnmark}%
2303     \color@begingroup
2304     \uncover#2{\@makefnctext{%
2305       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2306     \color@endgroup}}
2307
2308 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2309   \global\setbox\beamer@footins\vbox{%
2310     \@RTLtrue
2311     \hsize\framewidth
2312     \textwidth\hsize
2313     \columnwidth\hsize
2314     \unvbox\beamer@footins
2315     \reset@font
2316     \bidi@@RTLfootnotetext@font
2317     \@parboxrestore
2318     \protected@edef\@currentlabel
2319       {\csname p@footnote\endcsname\@thefnmark}%
2320     \color@begingroup

```



```

2321     \uncover#2{\@makeRTLfntext{%
2322         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2323     \color@endgroup}}
2324
2325 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2326     \global\setbox\beamer@footins\vbox{%
2327         \RTLfalse
2328         \hsize\framewidth
2329         \textwidth\hsize
2330         \columnwidth\hsize
2331         \unvbox\beamer@footins
2332         \reset@font
2333         \bidi@LTRfootnotetext@font
2334         \@parboxrestore
2335         \protected@edef\@currentlabel
2336             {\csname p@footnote\endcsname\@thefnmark}%
2337         \color@begingroup
2338         \uncover#2{\@makeLTRfntext{%
2339             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2340         \color@endgroup}}
2341
2342 \renewcommand<>\@mpfootnotetext[1]{%
2343 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnotetext
2344     \global\setbox\@mpfootins\vbox{%
2345         \unvbox\@mpfootins
2346         \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2347         \reset@font
2348         \bidi@footnotetext@font
2349         \hsize\columnwidth
2350         \@parboxrestore
2351         \protected@edef\@currentlabel
2352             {\csname p@mpfootnote\endcsname\@thefnmark}%
2353         \color@begingroup
2354         \uncover#2{\@makefntext{%
2355             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2356         \color@endgroup}}
2357
2358 \renewcommand<>\@mpRTLfootnotetext[1]{%
2359 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnotetext\right@footnotetext
2360     \global\setbox\@mpfootins\vbox{%
2361         \unvbox\@mpfootins
2362         \RTLtrue
2363         \reset@font
2364         \bidi@RTLfootnotetext@font
2365         \hsize\columnwidth
2366         \@parboxrestore
2367         \protected@edef\@currentlabel
2368             {\csname p@mpfootnote\endcsname\@thefnmark}%
2369         \color@begingroup
2370         \uncover#2{\@makeRTLfntext{%
2371             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2372         \color@endgroup}}
2373
2374 \renewcommand<>\@mpLTRfootnotetext[1]{%

```



```

2375 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\ bidi@mpfootnoterule\left@footnot
2376 \global\setbox\@mpfootins\vbox{%
2377 \unvbox\@mpfootins
2378 \@RTLfalse
2379 \reset@font
2380 \bidi@LTRfootnotetext@font
2381 \hsize\columnwidth
2382 \@parboxrestore
2383 \protected@edef\@currentlabel
2384 {\csname p@mpfootnote\endcsname\@thefnmark}%
2385 \color@begingroup
2386 \uncover#2{\@makeLTRfntext{%
2387 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2388 \color@endgroup}}
2389
2390 \let\@footnotetext=\beamer@framefootnotetext
2391 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2392 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2393
2394 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2395 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2396 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2397
2398 \renewcommand<>{\footnote}[1][ ]{%
2399 \let\beamer@footnotetext=\@footnotetext%
2400 \let\beamer@mpfn=\@mpfn%
2401 \let\beamer@thempfn=\@thempfn%
2402 \let\beamer@kvorig=\KV@errx%
2403 \let\beamer@xkvorig=\XKV@err
2404 \def\beamer@footarg{}%
2405 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2406 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2407 \setkeys{beamerfootnote}{#1}%
2408 \let\KV@errx=\beamer@kvorig%
2409 \let\XKV@errx=\beamer@xkvorig%
2410 \ifx\beamer@footarg\@empty%
2411 \def\beamer@next{\stepcounter\beamer@mpfn
2412 \protected@xdef\@thefnmark{\beamer@thempfn}%
2413 \@footnotemark\beamer@footnotetext#2}%
2414 \else%
2415 \def\beamer@next{%
2416 \begingroup
2417 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2418 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2419 \endgroup
2420 \@footnotemark\beamer@footnotetext#2}%
2421 \fi%
2422 \beamer@next}
2423
2424 \renewcommand<>{\RTLfootnote}[1][ ]{%
2425 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2426 \let\beamer@mpfn=\@mpfn%
2427 \let\beamer@thempfn=\@thempfn%
2428 \let\beamer@kvorig=\KV@errx%

```



```

2429 \let\beamer@xkvorig=\XKV@err
2430 \def\beamer@footarg{}%
2431 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2432 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2433 \setkeys{beamerfootnote}{#1}%
2434 \let\KV@errx=\beamer@kvorig%
2435 \let\XKV@errx=\beamer@xkvorig
2436 \ifx\beamer@footarg\@empty%
2437   \def\beamer@next{\stepcounter\beamer@mpfn
2438     \protected@xdef\@thefnmark{\beamer@thempfn}%
2439     \@footnotemark\beamer@RTLfootnotetext#2}%
2440 \else%
2441   \def\beamer@next{%
2442     \begingroup
2443       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2444       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2445     \endgroup
2446     \@footnotemark\beamer@RTLfootnotetext#2}%
2447 \fi%
2448 \beamer@next}
2449
2450 \renewcommand<>{\LTRfootnote}[1][ ]{%
2451   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2452   \let\beamer@mpfn=\@mpfn%
2453   \let\beamer@thempfn=\@thempfn%
2454   \let\beamer@kvorig=\KV@errx%
2455   \let\beamer@xkvorig=\XKV@err
2456   \def\beamer@footarg{}%
2457   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2458   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2459   \setkeys{beamerfootnote}{#1}%
2460   \let\KV@errx=\beamer@kvorig%
2461   \let\XKV@errx=\beamer@xkvorig
2462   \ifx\beamer@footarg\@empty%
2463     \def\beamer@next{\stepcounter\beamer@mpfn
2464       \protected@xdef\@thefnmark{\beamer@thempfn}%
2465       \@footnotemark\beamer@LTRfootnotetext#2}%
2466   \else%
2467     \def\beamer@next{%
2468       \begingroup
2469         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2470         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2471       \endgroup
2472       \@footnotemark\beamer@LTRfootnotetext#2}%
2473   \fi%
2474   \beamer@next}
2475
2476

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2477 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2478 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2479   \par\nointerlineskip%

```



```

2480 \global\beamer@slidehaszoomtrue%
2481 \advance\beamer@zoomcount by1\relax%
2482 \def\beamer@zoomborderwidth{0}%
2483 \edef\beamer@labelzoomed{beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2484 \setkeys{beamerzoom}{#3}%
2485 \only<#1>{%
2486   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2487   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2488     \expandafter\ifx\cscname XeTeXrevision\endcsname\relax
2489     \vbox to #7{%
2490       \hbox to#6{\hfil}%
2491       \vfil%
2492     }%
2493   \else%
2494     \begin{group}%
2495       \normalsize%
2496       \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2497         \pgfsetfillopacity{0}
2498         \pgftext [x=0cm,y=3pt]{.}
2499         \pgftext [x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2500       \end{pgfpicture}%
2501     \endgroup%
2502   \fi%
2503   }}%
2504   \ht\@tempboxa=0pt%
2505   \wd\@tempboxa=0pt%
2506   \dp\@tempboxa=0pt%
2507   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}%
2508   \ht\@tempboxa=0pt%
2509   \wd\@tempboxa=0pt%
2510   \dp\@tempboxa=0pt%
2511   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2512 }%
2513 \only<#2>{%
2514   \@ifundefined{beamer@labelzoomed}%
2515   {%
2516     \hypertarget{\beamer@labelzoomed}{}%
2517     \expandafter\gdef\cscname\beamer@labelzoomed\endcsname{}%
2518   }{}%
2519   \gdef\beamer@zoomer{%
2520     % compute zoom factor
2521     \@tempdima=\beamer@frametextheight%
2522     \@tempdimb=#7\relax%
2523     \@tempcnta=\@tempdimb%
2524     \divide\@tempcnta by4096\relax%
2525     \multiply\@tempdima by16\relax%
2526     \divide\@tempdima by\@tempcnta%
2527     \@tempdimb=\paperwidth%
2528     \ifbeamer@plainframe%
2529     \else%
2530       \advance\@tempdimb by-\beamer@leftsidebar%
2531       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2532     \fi%
2533     \@tempdimc=#6\relax%

```



```

2534 \tempcntb=\@tempdimc%
2535 \divide\tempcntb by4096\relax%
2536 \multiply\@tempdimb by16\relax%
2537 \divide\@tempdimb by\tempcntb%
2538 \ifdim\@tempdimb<\@tempdima%
2539 \tempdima=\@tempdimb%
2540 \fi%
2541 \edef\beamer@temp{\strip@pt\@tempdima}%
2542 \@tempdimc=\beamer@frametextheight%
2543 \advance\@tempdimc by4pt%
2544 \@tempdimb=\paperwidth%
2545 \ifbeamer@plainframe%
2546 \else%
2547 \advance\@tempdimb by-\beamer@leftsidebar%
2548 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2549 \fi%
2550 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2551 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2552 \ht\@tempboxa=0pt%
2553 \wd\@tempboxa=0pt%
2554 \dp\@tempboxa=0pt%
2555 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2556 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2557 \ifRTL
2558 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2559 \pgftext [right, top]{\box\@tempboxa}
2560 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2561 \pgfusepath{clip}
2562 \begingroup
2563 \pgftransformscale{\beamer@temp}
2564 \@tempdima=#4\relax%
2565 \@tempdimb=#5\relax%
2566 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2567 \pgftext [right, top]{\vbox{\vbox{} \nointerlineskip \unvbox\beamer@framebox}}
2568 \endgroup
2569 \end{pgfpicture}}%
2570 \else
2571 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2572 \pgftext [left, top]{\box\@tempboxa}
2573 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2574 \pgfusepath{clip}
2575 \begingroup
2576 \pgftransformscale{\beamer@temp}
2577 \@tempdima=#4\relax%
2578 \@tempdimb=#5\relax%
2579 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2580 \pgftext [left, top]{\vbox{\vbox{} \nointerlineskip \unvbox\beamer@framebox}}
2581 \endgroup
2582 \end{pgfpicture}}%
2583 \fi
2584 }}%
2585 \setbox\beamer@framebox=\vbox{%
2586 \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2587 \nointerlineskip \unvbox\beamer@frametitlebox%

```



```

2588     \nobreak%
2589     \box\beamer@framebox%
2590     \nobreak%
2591     \vss%
2592     \beamer@exitcode%
2593   }%
2594   \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2595 }%
2596 }%
2597 }
2598
2599

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2600 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2601 \def\beamer@enum@{%
2602   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2603   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2604   \bgroup
2605   \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2606   \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2607   \egroup
2608   \expandafter
2609     \list
2610     {\usebeamertemplate{\beamer@enumtempl}}
2611     {\usecounter\@enumctr%
2612       \def\makelabel##1{\hss\llap{%
2613         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2614         \usebeamercolor[fg]{enumerate \beameritemnestingprefix item}##1}}}}%
2615   \beamer@cramped%
2616   \bidi@beamer@ragged%
2617   \beamer@firstlineitemizeunskip%
2618 }
2619
2620 \renewcommand{\itemize}[1][ ]{%
2621   \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2622   \ifnum \@itemdepth >2\relax\@toodeep\else
2623     \advance\@itemdepth\@ne
2624     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2625     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2626     \bgroup
2627     \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2628     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2629     \egroup
2630     \list
2631     {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2632     {\def\makelabel##1{%
2633       {%
2634         \hss\llap{%
2635           \usebeamerfont*{itemize \beameritemnestingprefix item}%
2636           \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}}}%
2637     }%
2638   }%

```



```

2639     }
2640 \fi%
2641 \beamer@cramped%
2642 \bidi@beamer@ragged%
2643 \beamer@firstlineitemizeunskip%
2644 }
2645
2646 \def\@@description{%
2647 \advance\beamer@descdefault by \labelsep%
2648 \usebeamerfont{description body}%
2649 \bgroup
2650 \usebeamercolor[fg]{description body}%
2651 \usebeamertemplate{description body begin}%
2652 \egroup
2653 \list
2654 {}
2655 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2656 \beamer@cramped%
2657 \bidi@beamer@ragged
2658 \beamer@firstlineitemizeunskip%
2659 }
2660
2661 \renewenvironment{thebibliography}[1]
2662 {%\leavevmode\unskip%
2663 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2664 \bidi@thebibliography@font@hook%
2665 \list{\@biblabel{\@arabic\c@enumiv}}%
2666     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2667     \leftmargin\labelwidth
2668     \advance\leftmargin\labelsep
2669     \itemsep=0pt%
2670     \partopsep=0pt%
2671     \topsep=0pt%
2672     \usecounter{enumiv}%
2673     \let\p@enumiv\@empty
2674     \renewcommand\theenumiv{\@arabic\c@enumiv}
2675     \let\makelabel\beamer@biblabeltemplate}%
2676 \sloppy\bidi@beamer@ragged
2677 \clubpenalty10000
2678 \@clubpenalty \clubpenalty
2679 \widowpenalty10000%
2680 \sfcode`\.\@m}
2681 {\def\@noitemerr
2682     {\@latex@warning{Empty `thebibliography' environment}}%
2683 \ifhmode\unskip\fi\endlist}
2684
2685

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2686 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2687 \define@key{beamerst}{width}{%
2688 \def\beamer@ststart{%
2689 \begin{minipage}[t]{#1}%

```





```

2690     \bidi@beamer@ragged
2691     \beamer@stalign
2692     \beamer@stlinebreakrule
2693   }%
2694 \def\beamer@stend{\end{minipage}}
2695
2696

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2697 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beamer]
2698 \def\slideentry#1#2#3#4#5#6{%
2699   %section number, subsection number, slide number, first/last frame, page number, part number
2700   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2701     \ifbeamer@compress%
2702       \advance\beamer@xpos by1\relax%
2703     \else%
2704       \ifnum#2=0%
2705         \beamer@ypos@offset=1\relax%
2706       \fi
2707       \beamer@xpos=#3\relax%
2708       \beamer@ypos=#2\relax%
2709       \advance\beamer@ypos by \beamer@ypos@offset\relax
2710     \fi%
2711   \hbox to 0pt{%
2712     \beamer@tempdim=-\beamer@vboxoffset%
2713     \advance\beamer@tempdim by-\beamer@boxsize%
2714     \multiply\beamer@tempdim by\beamer@ypos%
2715     \advance\beamer@tempdim by -.05cm%
2716     \raise\beamer@tempdim\hbox{%
2717       \beamer@tempdim=\beamer@boxsize%
2718       \multiply\beamer@tempdim by\beamer@xpos%
2719       \advance\beamer@tempdim by -\beamer@boxsize%
2720       \advance\beamer@tempdim by 1pt%
2721       \kern\beamer@tempdim
2722       \global\beamer@section@min@dim\beamer@tempdim
2723       \hbox{\beamer@link(#4){%
2724         \usebeamerfont{mini frame}%
2725         \ifnum\c@section=#1%
2726           \ifnum\c@subsection=#2%
2727             \usebeamercolor[fg]{mini frame}%
2728             \ifnum\c@subsectionslide=#3%
2729               \usebeamertemplate{mini frame}\beamer@minislidehighlight%
2730             \else%
2731               \usebeamertemplate{mini frame in current subsection}\beamer@minisliderowhighlight%
2732             \fi%
2733           \else%
2734             \usebeamercolor{mini frame}%
2735             \%color{fg!50!bg}%
2736             \usebeamertemplate{mini frame in other subsection}\beamer@minislide%
2737           \fi%
2738         \else%
2739           \usebeamercolor{mini frame}%
2740           \%color{fg!50!bg}%

```



```

2741         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2742         \fi%
2743     }}}} \hskip-10cm plus 1fil%
2744 } \fi \fi%
2745 \else%
2746 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2747 \fi \ignorespaces
2748 }
2749
2750 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2751 {
2752 \pgfpathmoveto{3.5bp}{0.5bp}
2753 \pgfpathqlineto{1.5bp}{2bp}
2754 \pgfpathqlineto{3.5bp}{3.5bp}
2755 \pgfusepathqfill
2756 }
2757
2758 \def\insertgotosymbol{%
2759 \if@RTL
2760 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2761 \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2762 \end{pgfpicture}%
2763 \else
2764 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2765 \pgfuseobject{beamer@gotosymbol}%
2766 \end{pgfpicture}%
2767 \fi
2768 }
2769
2770 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2771 {
2772 \pgfpathmoveto{5.5bp}{0.5bp}
2773 \pgfpathqlineto{3.5bp}{2bp}
2774 \pgfpathqlineto{5.5bp}{3.5bp}
2775 \pgfpathmoveto{3.5bp}{0.5bp}
2776 \pgfpathqlineto{1.5bp}{2bp}
2777 \pgfpathqlineto{3.5bp}{3.5bp}
2778 \pgfusepathqfill
2779 }
2780
2781 \def\insertskipsymbol{%
2782 \if@RTL
2783 \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2784 \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2785 \end{pgfpicture}%
2786 \else
2787 \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2788 \pgfuseobject{beamer@skipsymbol}%
2789 \end{pgfpicture}%
2790 \fi
2791 }
2792
2793 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2794 {

```



```

2795 \pgfpathmoveto{1.5bp}{0.5bp}
2796 \pgfpathqlineto{3.5bp}{2bp}
2797 \pgfpathqlineto{1.5bp}{3.5bp}
2798 \pgfusepathqfill
2799 }
2800
2801 \def\insertreturnsymbol{%
2802 \if@RTL
2803 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2804 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2805 \end{pgfpicture}%
2806 \else
2807 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2808 \pgfuseobject{beamerreturnsymbol}%
2809 \end{pgfpicture}%
2810 \fi
2811 }
2812
2813

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2814 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2815 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2816
2817

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2818 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2819 \newcommand*{\bidi@beamer@leftskip}{%
2820 \if@RTL
2821 \rightskip
2822 \else
2823 \leftskip
2824 \fi
2825 }
2826
2827 \newcommand*{\bidi@beamer@rightskip}{%
2828 \if@RTL
2829 \leftskip
2830 \else
2831 \rightskip
2832 \fi
2833 }
2834
2835 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2836
2837 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2838
2839 \defbeamer*{subsection in toc}{default}
2840 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2841
2842 \defbeamer*{subsubsection in toc}{default}

```



```

2843 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2844 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2845
2846 \newcommand*{\bidi@beamer@blacktriangle}{%
2847 \if@RTL
2848   $\blacktriangleleft$%
2849 \else
2850   $\blacktriangleright$%
2851 \fi
2852 }
2853
2854 \bidi@csundef{beamer@@tmpop@itemize item@default}
2855
2856 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2857
2858 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2859
2860 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\vd
2861 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2862 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2863
2864 \bidi@undef\beamer@@tmpop@footnote@default
2865
2866 \defbeamertemplate*{footnote}{default}
2867 {
2868 \parindent 1em\noindent%
2869 \bidi@beamer@ragged
2870 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2871 }
2872
2873 \defbeamertemplate*{RTLfootnote}{default}
2874 {
2875 \parindent 1em\noindent%
2876 \raggedleft
2877 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2878 }
2879
2880 \defbeamertemplate*{LTRfootnote}{default}
2881 {
2882 \parindent 1em\noindent%
2883 \raggedright
2884 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2885 }
2886
2887 \bidi@undef\beamer@@tmpop@caption@default
2888
2889 \defbeamertemplate*{caption}{default}
2890 {%
2891 \bidi@beamer@ragged
2892 {%
2893 \leavevmode
2894 \usebeamerfont[fg]{caption name}%
2895 \usebeamerfont*{caption name}%
2896 \insertcaptionname

```



```

2897   \usebeamertemplate{caption label separator}%
2898 }%
2899 \insertcaption\par
2900 }
2901
2902 \bidi@csundef{beamer@@tmpop@block begin@default}
2903
2904 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2905
2906 \bidi@csundef{beamer@@tmpop@block example begin@default}
2907
2908 \defbeamertemplate*{block begin}{default}
2909 {
2910   \par\vskip\medskipamount%
2911   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2912     \usebeamerfont*{block title}\insertblocktitle%
2913   \end{beamercolorbox}%
2914   {\parskip0pt\par}%
2915   \ifbeamercoloreempty[bg]{block title}
2916   {}
2917   {\ifbeamercoloreempty[bg]{block body}{}\nointerlineskip\vskip-0.5pt}}%
2918   \usebeamerfont{block body}%
2919   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2920     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel}
2921   }
2922
2923 \defbeamertemplate*{block alerted begin}{default}
2924 {
2925   \par\vskip\medskipamount%
2926   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2927     \usebeamerfont*{block title alerted}\insertblocktitle%
2928   \end{beamercolorbox}%
2929   {\parskip0pt\par}%
2930   \ifbeamercoloreempty[bg]{block title alerted}
2931   {}
2932   {\ifbeamercoloreempty[bg]{block body alerted}{}\nointerlineskip\vskip-0.5pt}}%
2933   \usebeamerfont{block body alerted}%
2934   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2935     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e}
2936   }
2937
2938 \defbeamertemplate*{block example begin}{default}
2939 {
2940   \par\vskip\medskipamount%
2941   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2942     \usebeamerfont*{block title example}\insertblocktitle%
2943   \end{beamercolorbox}%
2944   {\parskip0pt\par}%
2945   \ifbeamercoloreempty[bg]{block title example}
2946   {}
2947   {\ifbeamercoloreempty[bg]{block body example}{}\nointerlineskip\vskip-0.5pt}}%
2948   \usebeamerfont{block body example}%
2949   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2950     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e}

```



```

2951 }
2952
2953 \bidi@csundef{beamer@tmpop@abstract begin@default}
2954
2955 \defbeamer@template*{abstract begin}{default}
2956 {\beamer@colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2957
2958 \bidi@undef\beamer@tmpop@button@default
2959
2960 \defbeamer@template*{button}{default}
2961 {%
2962 \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2963 \ht\beamer@tempbox=6pt%
2964 \dp\beamer@tempbox=0pt%
2965 \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2966 \beamer@tempdim=\wd\beamer@tempbox%
2967 \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2968 \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2969 \if@RTL
2970 \kern4pt%
2971 \box\beamer@tempbox%
2972 \hskip-\beamer@tempdim%
2973 \fi
2974 \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2975 \color{bg}
2976 \pgfsetlinewidth{0.8pt}
2977 \pgfpathmoveto{0pt}{0pt}
2978 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2979 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2980 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2981 \pgfpathcurveto%
2982 {\pgfpoint{\the\beamer@dima}{8pt}}%
2983 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2984 {\pgfpoint{\the\beamer@dimb}{4pt}}
2985 \pgfpathcurveto%
2986 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2987 {\pgfpoint{\the\beamer@dima}{0pt}}%
2988 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2989 \pgfpathclose
2990 \pgfusepathqfill
2991 \colorlet{bg}{parent.bg}
2992 \usebeamer@color[fg]{button border}
2993 \pgfpathmoveto{0pt}{0pt}
2994 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2995 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2996 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2997 \pgfpathcurveto%
2998 {\pgfpoint{\the\beamer@dima}{8pt}}%
2999 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3000 {\pgfpoint{\the\beamer@dimb}{4pt}}
3001 \pgfpathcurveto%
3002 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3003 {\pgfpoint{\the\beamer@dima}{0pt}}%
3004 {\pgfpoint{\the\beamer@tempdim}{0pt}}

```



```

3005   \pgfpathclose
3006   \pgfusepathqstroke
3007 \end{pgfpicture}%
3008 \if@RTL
3009 \else
3010   \hskip-\beamer@tempdim%
3011   \box\beamer@tempbox%
3012   \kern4pt%
3013 \fi
3014 }
3015
3016

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for be
3018 \setbeamertemplate{sections/subsections in toc}[circle]
3019

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

3020 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3021 \setbeamertemplate{section in toc}[square]
3022 \setbeamertemplate{subsection in toc}[square]
3023
3024 \setbeamertemplate{itemize items}[square]
3025 \setbeamertemplate{itemize subitem}[triangle]
3026
3027 \bidi@csundef{beamer@@tmpop@title page@focus}
3028
3029 \defbeamertemplate*{title page}{focus}{%
3030   {%
3031     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3032     \begin{tikzpicture}[overlay, remember picture]
3033       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3034     \end{tikzpicture}
3035   }
3036
3037   \vspace{-1.65\baselineskip}
3038   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3039     \vspace{\baselineskip}
3040     \usebeamerfont{title}
3041     \usebeamercolor[fg]{frametitle}
3042     \inserttitle
3043   \end{minipage}
3044
3045   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3046     \usebeamerfont{subtitle}
3047     \usebeamercolor[fg]{frametitle}
3048     \insertsubtitle
3049   \end{minipage}
3050
3051   % Set the title graphic in a zero-height box, so that
3052   % the position of other elements is not affected.

```



```

3053   {\vfuuzz=9999pt\vbox to 0pt {
3054     \if@RTL
3055       \raggedright
3056     \else
3057       \raggedleft
3058     \fi
3059     \inserttitlegraphic
3060   }}
3061
3062   \begin{minipage}[t]{\textwidth}
3063     \usebeamerfont{author}
3064     \insertauthor
3065   \end{minipage}
3066
3067   \vspace*{\baselineskip}
3068   \begin{minipage}[t]{\textwidth}
3069     \usebeamerfont{institute}
3070     \insertinstitute
3071   \end{minipage}
3072
3073   \vspace*{\baselineskip}
3074   \begin{minipage}[t]{\textwidth}
3075     \usebeamerfont{date}
3076     \insertdate
3077   \end{minipage}
3078
3079   \vspace*{0pt plus 100fill}
3080
3081   \addtocounter{framenummer}{-1}
3082   \addtocounter{realframenummer}{-1}
3083 }
3084
3085
3086

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3087 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3088 \AtBeginDocument{%
3089   \setbeamsize{sidebar width left=.25\paperwidth}%
3090 }
3091
3092 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3093
3094 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3095
3096 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3097
3098 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3099
3100 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3101
3102 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3103

```





```

3104 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3107
3108 \defbeamertemplate*{section in toc}{inmargin}
3109 {\leavevmode
3110 \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3111
3112 \defbeamertemplate*{title page}{inmargin}
3113 {
3114 \begin{block}{\inserttitleindicator}
3115 \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3116 \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3117 \end{block}
3118 \vfill
3119 \ifx\insertauthor\@empty
3120 \else
3121 \begin{block}{\insertauthorindicator}
3122 \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3123 \end{block}
3124 \fi
3125 \ifx\insertinstitute\@empty
3126 \else
3127 \begin{block}{\insertinstituteindicator}
3128 \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3129 \end{block}
3130 \fi
3131 \ifx\insertdate\@empty
3132 \else
3133 \begin{block}{\insertdateindicator}
3134 \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3135 \end{block}
3136 \fi
3137 }
3138
3139 \defbeamertemplate*{block begin}{inmargin}
3140 {
3141 \par\vskip\medskipamount%
3142 \leavevmode%
3143 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\i
3144 \beginL\beamer@putright
3145 %\usebeamercolor[fg]{block body}% to be done!
3146 }
3147
3148 \defbeamertemplate*{block end}{inmargin}
3149 {\endbeamer@putright\endL\vskip\smallskipamount}
3150
3151 \defbeamertemplate*{block alerted begin}{inmargin}
3152 {
3153 \par\vskip\medskipamount%
3154 \leavevmode%
3155 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3156 \beginL\beamer@putright
3157 %\usebeamercolor[fg]{block body alerted}% to be done!

```



```

3158 }
3159
3160 \defbeamer*{block alerted end}{inmargin}
3161 {\endbeamer@putright\endL\vskip\smallskipamount}
3162
3163 \defbeamer*{block example begin}{inmargin}
3164 {
3165   \par\vskip\medskipamount%
3166   \leavevmode%
3167   \beamer@putleft{\normalfont{\usebeamerfont[fg]{block title example}}\usebeamerfont*{block
3168   \beginL\beamer@putright
3169   %\usebeamerfont[fg]{block body example}% to be done
3170 }
3171
3172 \defbeamer*{block example end}{inmargin}
3173 {\endbeamer@putright\endL\vskip\smallskipamount}
3174
3175 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3176   \setbeamer*{section in toc}[inmargin]%
3177   \setbeamer*{subsection in toc}[inmargin]%
3178   \setbeamer*{subsubsection in toc}[inmargin]%
3179 }
3180
3181

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3182 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3183 \setbeamer*{title}{
3184   \bidi@beamer@ragged%
3185   \linespread{1.0}%
3186   \inserttitle%
3187   \par%
3188   \vspace*{0.5em}
3189 }
3190
3191 \setbeamer*{subtitle}{
3192   \bidi@beamer@ragged%
3193   \insertsubtitle%
3194   \par%
3195   \vspace*{0.5em}
3196 }
3197
3198 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3199
3200 \defbeamer*{section page}{progressbar}{
3201   \centering
3202   \begin{minipage}{22em}
3203     \bidi@beamer@ragged
3204     \usebeamerfont[fg]{section title}
3205     \usebeamerfont{section title}
3206     \insertsectionhead\[-1ex]
3207     \usebeamer*{progress bar in section page}
3208     \par

```



```

3209 \ifx\insertsubsectionhead\@empty\else%
3210 \usebeamercolor[fg]{subsection title}%
3211 \usebeamerfont{subsection title}%
3212 \insertsubsectionhead
3213 \fi
3214 \end{minipage}
3215 \par
3216 \vspace{\baselineskip}
3217 }
3218
3219 \setbeamertemplate{progress bar in section page}{
3220 \setlength{\metropolis@progressonsectionpage}{%
3221 \textwidth * \ratio{\insertframenum ber pt}{\inserttotalframenum ber pt}}%
3222 }%
3223 \begin{tikzpicture}
3224 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3225 \if@RTLmain
3226 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metro
3227 \else
3228 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsect
3229 \fi
3230 \end{tikzpicture}%
3231 }
3232
3233 \renewcommand{\metropolis@block}[1]{
3234 \par\vskip\medskipamount%
3235 \setlength{\parskip}{Opt}
3236 \ifbeamercolorempy[bg]{block title#1}{%
3237 \if@RTL
3238 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3239 \else
3240 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3241 \fi
3242 }{%
3243 \ifbeamercolorempy[bg]{block title}{%
3244 \if@RTL
3245 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3246 \else
3247 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3248 \fi
3249 }%
3250 }%
3251 \if@RTL
3252 \begin{beamercolorbox}[
3253 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3254 rightskip=\metropolis@blockadjust,
3255 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3256 ]{block title#1}%
3257 \else
3258 \begin{beamercolorbox}[
3259 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3260 leftskip=\metropolis@blockadjust,
3261 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3262 ]{block title#1}%

```



```

3263   \fi
3264 }}%
3265   \usebeamerfont*{block title#1}%
3266   \metropolis@strut%
3267   \insertblocktitle%
3268   \metropolis@strut%
3269 \end{beamercolorbox}%
3270 \nointerlineskip%
3271 \ifbeamercolorempy[bg]{block body#1}{%
3272   \begin{beamercolorbox}[vmode]{block body#1}}{
3273   \ifbeamercolorempy[bg]{block body}{%
3274     \begin{beamercolorbox}[vmode]{block body#1}%
3275   }}{
3276     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3277     \vspace{-\metropolis@parskip}
3278   }}%
3279   \usebeamerfont{block body#1}%
3280   \setlength{\parskip}{\metropolis@parskip}%
3281 }
3282
3283
3284 \setbeamertemplate{footnote}{%
3285   \parindent 0em\noindent%
3286   \bidi@beamer@ragged
3287   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3288 }
3289
3290 \setbeamertemplate{RTLfootnote}{%
3291   \parindent 0em\noindent%
3292   \raggedleft
3293   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{LTRfootnote}{%
3297   \parindent 0em\noindent%
3298   \raggedright
3299   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3300 }
3301
3302 \setbeamertemplate{itemize items}{\textbullet}
3303
3304 \setbeamertemplate{section page}[progressbar]
3305
3306

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3307 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
3308 \setbeamertemplate{sections/subsections in toc}[square]
3309 \setbeamertemplate{items}[square]
3310

```

## 31 File beamerinnerthemeroounded-xetex-bidi.def



```

3311 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3312 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3313 \setbeamertemplate{items}[ball]
3314 \setbeamertemplate{sections/subsections in toc}[ball]
3315

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3316 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3317 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3318
3319 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3320
3321 \AtBeginDocument{%
3322   \if@RTLmain
3323     \setbeamertemplate{frametitle}[default][right]
3324   \fi
3325 }
3326
3327 \bidi@csundef{beamer@@tmpop@note page@default}
3328
3329 \newcommand*{\bidi@beamer@today}{%
3330 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3331
3332 \defbeamertemplate*{note page}{default}
3333 {%
3334   {%
3335     \scriptsize
3336     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3337     \ifbeamercolorempy[bg]{note title}{}{%
3338       \insertvrule{.25\paperheight}{note title.bg}%
3339       \vskip-.25\paperheight%
3340       \nointerlineskip%
3341     }%
3342     \vbox{
3343       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3344       \vskip-0.25\paperheight%
3345       \nointerlineskip
3346       \if@RTL
3347         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3348           \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3349             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3350             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@b
3351           \end{pgflowlevelslope}
3352         \end{pgfpicture}%
3353       \else
3354         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3355           \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3356             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3357             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@b
3358           \end{pgflowlevelslope}
3359         \end{pgfpicture}%
3360       \fi
3361     \nointerlineskip

```



```

3362 \vbox to .25\paperheight{\vskip0.5em
3363 \if@RTL
3364 \moveright0.25\textwidth
3365 \fi
3366 \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3367 \setbox\beamer@tempbox=\hbox{\insertsection}%
3368
3369 \if@RTL
3370 \moveright\dimexpr0.29\textwidth-14pt\relax
3371 \fi
3372 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3373 width0.4pt height7pt\vrule width 9pt
3374 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi}
3375 \if@RTL\endR\fi}%
3376 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3377
3378 \if@RTL
3379 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3380 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3381 width0.4pt height7pt\vrule width 9pt
3382 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi}
3383 \if@RTL\endR\fi}%
3384 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3385
3386 \if@RTL
3387 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3388 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3389 width0.4pt height7pt\vrule width 9pt
3390 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi}
3391 \if@RTL\endR\fi}%
3392 \vfil}%
3393 }%
3394 \ifbeamercolorempy[bg]{note page}{-}{-}%
3395 \nointerlineskip%
3396 \insertvrule{.75\paperheight}{note page.bg}%
3397 \vskip-.75\paperheight%
3398 }%
3399 \vskip.25em
3400 \nointerlineskip
3401 \insertnote
3402 }
3403
3404
3405

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3406 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3407 \bidi@undef\beamer@@tmpop@footline@progressbar
3408
3409 \defbeamer@template*{footline}{progressbar}{-}{-}
3410 % If not appendix.
3411 \ifnum\mainend<0% From package appendixnumberbeamer.
3412 %

```



```

3413     \settowidth{\focus@pbar@leftoffset}{1}%
3414     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3415     %
3416     \ifx\beamer@focus@totalframenumbering\no%
3417         \settowidth{\focus@pbar@rightoffset}{1}%
3418         \addtolength{\focus@pbar@rightoffset}{0.5em}%
3419     \else%
3420         \settowidth{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3421         \addtolength{\focus@pbar@rightoffset}{1.5em}%
3422     \fi%
3423     %
3424     % If not title page.
3425     \ifnum\value{realframenumber}>0%
3426         \ifnum\value{framenumber}<\inserttotalframenumber%
3427             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3428                 \pgfmathsetmacro{\focus@pbar@progress}%
3429                     {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumber-\value{framenumber})/\focus@pbar@width}
3430                 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3431             \end{tikzpicture}
3432     \if@RTLmain
3433         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,footline.fig] at ({\the\focus@pbar@leftoffset},{0.5*\the\focus@pbar@height});
3434         \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=east,footline.fig] at ({\paperwidth-\the\focus@pbar@leftoffset},{0.5*\the\focus@pbar@height});
3435     \else
3436         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,footline.fig] at ({\the\focus@pbar@leftoffset},{0.5*\the\focus@pbar@height});
3437         \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset-\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=east,footline.fig] at ({\the\focus@pbar@leftoffset+\focus@pbar@rightoffset-\the\focus@pbar@leftoffset},{0.5*\the\focus@pbar@height});
3438     \fi
3439     \ifx\beamer@focus@totalframenumbering\no%
3440     \else%
3441     \if@RTLmain
3442         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3443     \else
3444         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,footline.fig] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3445     \fi
3446     \fi%
3447     \end{tikzpicture}%
3448     \else%
3449     \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3450         \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3451         \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height) node[anchor=west,footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3452     \if@RTLmain
3453         \node[anchor=west, footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3454     \else
3455         \node[anchor=east, footline.fig] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height});
3456     \fi
3457     \ifx\beamer@focus@totalframenumbering\no%
3458     \else%
3459     \if@RTLmain
3460         \node[footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pbar@height});
3461         \node[anchor=east, footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pbar@height});
3462     \else
3463     \if@RTLmain
3464         \node[footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pbar@height});
3465         \node[anchor=east, footline.fig] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pbar@height});
3466     \else

```



```

3467             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3468             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3469 \fi
3470             \fi%
3471             \end{tikzpicture}%
3472             \fi%
3473             \fi%
3474             \fi%
3475 }
3476
3477

```

### 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3478 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3479 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3480
3481 \defbeamertemplate*{footline}{infolines theme}
3482 {%
3483   \leavevmode%
3484   \hbox{%
3485     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3486     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3487     \end{beamercolorbox}%
3488     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3489     \usebeamerfont{title in head/foot}\insertshorttitle
3490     \end{beamercolorbox}%
3491     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3492     \hfill%
3493     \usebeamerfont{date in head/foot}%
3494     \insertshortdate{}%
3495     \hfill%
3496     \bgroup
3497     \usebeamerfont{page number in head/foot}%
3498     \usebeamerfont{page number in head/foot}%
3499     \usebeamertemplate{page number in head/foot}%
3500     \egroup
3501     \end{beamercolorbox}}%
3502     \vskip0pt%
3503 }
3504
3505 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3506
3507 \defbeamertemplate*{headline}{infolines theme}
3508 {%
3509   \leavevmode%
3510   \hbox{%
3511     \if@RTL
3512     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3513   \else
3514     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3515   \fi
3516     \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3517     \end{beamercolorbox}%

```





```

3518 \if@RTL
3519 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3520 \else
3521 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3522 \fi
3523 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3524 \end{beamercolorbox}}%
3525 \vskip0pt%
3526 }
3527
3528 \bidi@AfterFile{beamerouterthememetroplit-xetex-bidi.def}{%
3529 \setbeamertemplate{footline}[infolines theme]%
3530 }
3531

```

### 35 File beamerouterthememetropolis-xetex-bidi.def

```

3532 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3533 \setbeamertemplate{progress bar in head/foot}{
3534 \nointerlineskip
3535 \setlength{\metropolis@progressinheadfoot}{%
3536 \paperwidth * \ratio{\insertframenummer pt}{\inserttotalframenummer pt}%
3537 }%
3538 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3539 \begin{tikzpicture}
3540 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3541 \if@RTLmain
3542 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3543 \else
3544 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3545 \fi
3546 \end{tikzpicture}}%
3547 \end{beamercolorbox}
3548 }
3549
3550 \AtBeginDocument{%
3551 \setbeamertemplate{frametitle}[plain]%
3552 }
3553
3554

```

### 36 File beamerouterthememiniframes-xetex-bidi.def

```

3555 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3556 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3557
3558 \defbeamertemplate*{headline}{miniframes theme}
3559 {%
3560 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3561 \end{beamercolorbox}
3562 \begin{beamercolorbox}{section in head/foot}
3563 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3564 \end{beamercolorbox}}%
3565 \ifbeamer@theme@subsection%

```



```

3566 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3567 \end{beamercolorbox}
3568 \if@RTL
3569 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3570 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3571 \else
3572 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3573 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3574 \fi
3575 \usebeamerfont{subsection in head/footer}\insertsubsectionhead
3576 \end{beamercolorbox}%
3577 \fi%
3578 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3579 \end{beamercolorbox}
3580 }
3581
3582

```

### 37 File beamerouterthemesidebar-xetex-bidi.def

```

3583 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3584 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3585
3586 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3587
3588 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3589
3590 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3591
3592 \ifdim\beamer@headheight>0pt
3593
3594 \defbeamertemplate*{frametitle}{sidebar theme}
3595 {%
3596 \nointerlineskip%
3597 \ifbeamer@plainframe%
3598 \hbox{\usebeamercolor[bg]{frametitle}%
3599 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3600 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3601 \nointerlineskip%
3602 \fi%
3603 \vskip-\beamer@headheight%
3604 \vbox to \beamer@headheight{%
3605 \vfil
3606 \bidi@beamer@leftskip=-\beamer@leftmargin%
3607 \advance\bidi@beamer@leftskip by0.3cm%
3608 \bidi@beamer@rightskip=-\beamer@rightmargin%
3609 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3610 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3611 \ifx\insertframesubtitle\@empty\else%
3612 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3613 \fi%
3614 \vbox{}%
3615 \vskip-1em%
3616 \vfil

```



```

3617 }%
3618 }
3619
3620 \AtBeginDocument{%
3621 \setbeamertheme{frametitle}[sidebar theme]%
3622 }
3623
3624 \defbeamertheme*{headline}{sidebar theme}
3625 {%
3626 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3627 \ifx\beamer@sidebarside\beamer@lefttext%
3628 \else%
3629 \hfill%
3630 \fi%
3631 \ifdim\beamer@sidebarwidth>0pt%
3632 \bgroup
3633 \usebeamercolor[bg]{logo}%
3634 \if@RTLmain
3635 \else
3636 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3637 \hskip-\beamer@sidebarwidth%
3638 \fi
3639 \hbox to \beamer@sidebarwidth{\hss\vbox to
3640 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3641 \if@RTLmain
3642 \hskip-\beamer@sidebarwidth%
3643 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3644 \fi
3645 \egroup
3646 \else%
3647 \vrule width0pt height \beamer@headheight%
3648 \fi%
3649 \end{beamercolorbox}
3650 }
3651 \fi
3652
3653 \def\beamer@sidebarformat#1#2#3{%
3654 \if@RTL
3655 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]#{
3656 \else
3657 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]#{
3658 \fi
3659 \vbox{}%
3660 #3\par%
3661 \vbox{}%
3662 \vskip-1.5ex%
3663 \end{beamercolorbox}
3664 }
3665
3666 \ifdim\beamer@sidebarwidth>0pt
3667
3668 \AtBeginDocument{%
3669 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3670 }

```



```

3671
3672 \defbeamertheme*{sidebar \beamer@sidebarside}{sidebar theme}
3673 {
3674   \beamer@tempdim=\beamer@sidebarwidth%
3675   \advance\beamer@tempdim by -6pt%
3676   {\usebeamerfont{title in sidebar}%
3677     \vskip1.5em%
3678     \hskip3pt%
3679     \bgroup
3680     \usebeamercolor[fg]{title in sidebar}%
3681     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3682     \vskip1.25em%
3683   }%
3684   {%
3685     \hskip3pt%
3686     \bgroup
3687     \usebeamercolor[fg]{author in sidebar}%
3688     \usebeamerfont{author in sidebar}%
3689     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3690     \vskip1.25em%
3691   }%
3692   \insertverticalnavigation{\beamer@sidebarwidth}%
3693   \vfill
3694   \ifx\beamer@sidebarside\beamer@lefttext%
3695     \else%
3696       \usebeamercolor{normal text}%
3697       \llap{\usebeamertheme***{navigation symbols}\hskip0.1cm}%
3698       \vskip2pt%
3699     \fi%
3700   }%
3701 \fi
3702

```

## 38 File beamerouterthemesplit-xetex-bidi.def

```

3703 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3704 \bidi@csundef{beamer@tmppop@footline@split theme}
3705
3706 \defbeamertheme*{footline}{split theme}
3707 {%
3708   \leavevmode%
3709   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3710 \else
3711 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3712 \fi
3713   \usebeamerfont{author in head/footer}\insertshortauthor
3714   \end{beamercolorbox}%
3715   \if@RTL
3716     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3717 \else
3718     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3719 \fi
3720   \usebeamerfont{title in head/footer}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3721   \end{beamercolorbox}}%

```



```

3722 \vskip0pt%
3723 }
3724
3725

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3726 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3727 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3728 color(0pt)=(frametitle right.bg);
3729 color(\paperwidth)=(frametitle.bg)
3730 }
3731
3732 \newcommand*{\bidi@beamer@frametitleshade}{%
3733 \if@RTLmain
3734 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3735 \else
3736 \pgfuses shading{beamer@frametitleshade}%
3737 \fi
3738 }
3739
3740 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3741
3742 \defbeamer template*{frametitle}{shadow theme}
3743 {%
3744 \nointerlineskip%
3745 \vskip-2pt%
3746 \hbox{\leavev mode
3747 \advance\beamer@leftmargin by -12bp%
3748 \advance\beamer@rightmargin by -12bp%
3749 \beamer@tempdim=\textwidth%
3750 \advance\beamer@tempdim by \beamer@leftmargin%
3751 \advance\beamer@tempdim by \beamer@rightmargin%
3752 \hskip-\Gm@lmargin\hbox{%
3753 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3754 \vbox{\vskip-.75ex%
3755 \bidi@beamer@leftskip0.3cm%
3756 \bidi@beamer@rightskip0.3cm plus1fil\leavev mode
3757 \bgroup\usebeamer color [fg]{frametitle}\usebeamer font{frametitle}\strut\insertframe
3758 \ifx\insertframesubtitle\@empty\else%
3759 {\usebeamer font*{framesubtitle}{\usebeamer color [fg]{framesubtitle}\insertframesu
3760 \fi%
3761 \nointerlineskip
3762 \vbox{}}%
3763 \end{minipage}}%
3764 \beamer@tempdim=\ht\beamer@tempbox%
3765 \advance\beamer@tempdim by 2pt%
3766 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3767 \begin{pgfscope}
3768 \pgfsetfillcolor{black}%
3769 \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3770 \pgfsetfading{beamer@topshadowmask}{}%
3771 \pgfusepath{fill}%
3772 \end{pgfscope}

```



```

3773     \begin{pgfscope}
3774         \usebeamercolor{frametitle right}%
3775         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3776         \pgfusepath{clip}%
3777         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3778     \end{pgfscope}
3779 \end{pgfpicture}
3780 \hskip-\paperwidth%
3781 \box\beamer@tempbox%
3782 }%
3783 \hskip-\Gm@margin%
3784 }%
3785 \vskip-2pt
3786 }
3787
3788 \AtBeginDocument{%
3789 \setbeamertheme{frametitle}[shadow theme]%
3790 }
3791
3792

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3793 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3794 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3795
3796 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3797
3798 \defbeamertheme*{headline}{smoothbars theme}
3799 {%
3800 \pgfuseshading{beamer@barshade}%
3801 \vskip-0.05ex%
3802 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3803 \begin{pgfpicture}
3804 \begin{pgfscope}%
3805 \ifbeamer@sb@subsection%
3806 \pgfsetfillcolor{subsection in head/foot.bg}%
3807 \else%
3808 \pgfsetfillcolor{section in head/foot.bg}%
3809 \fi%
3810 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3811 \pgfsetfading{beamer@belowframetitlemask}{}%
3812 \pgfusepath{fill}%
3813 \end{pgfscope}%
3814 \end{pgfpicture}%
3815 \end{beamercolorbox}%
3816 \ifbeamer@sb@subsection%
3817 \vskip-9.75ex%
3818 \else%
3819 \vskip-6.85ex%
3820 \fi%
3821 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3822 \insertnavigation{\paperwidth}
3823 \end{beamercolorbox}%

```



```

3824 \ifbeamer@sb@subsection%
3825 \if@RTL
3826   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3828   \else
3829     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3830       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3831     \fi
3832     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3833   \end{beamercolorbox}%
3834 \fi%
3835 }%
3836
3837 \defbeamertemplate*{frametitle}{smoothbars theme}
3838 {%
3839   \nointerlineskip%
3840   \vskip-0.19ex%
3841   \usebeamerfont{headline}%
3842   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3843     \pgfuses shading{beamer@aboveframetitle}%
3844   \end{beamercolorbox}%
3845   \vskip-1ex%
3846   \nointerlineskip%
3847   \if@RTL
3848     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3849     \else
3850     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3851     \fi
3852     \vskip0.5ex%
3853     \usebeamerfont*{frametitle}\strut\insertframetitle%
3854     \ifx\insertframesubtitle\@empty%
3855       \strut\par%
3856     \else
3857       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor{fg}{framesubtitle}\strut\insertf
3858     \fi%%
3859     \usebeamerfont{headline}%
3860     \vskip0.05ex%
3861   \end{beamercolorbox}%
3862   \nointerlineskip%
3863   \vskip-0.05ex%
3864   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3865   \begin{pgfpicture}
3866     \begin{pgfscope}%
3867       \pgfsetfillcolor{frametitle.bg}%
3868       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3869       \pgfsetfading{beamer@belowframetitlemask}{}%
3870       \pgfusepath{fill}%
3871     \end{pgfscope}%
3872   \end{pgfpicture}%
3873   \end{beamercolorbox}%
3874 }
3875
3876 \AtBeginDocument{%
3877   \setbeamertemplate{frametitle}[smoothbars theme]%

```



```

3878 }
3879
3880

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3881 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3882 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3883
3884 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3885
3886 \defbeamertemplate*{headline}{smoothtree theme}
3887 {%
3888   \pgfuseshading{beamer@treeshade}%
3889   \vskip-0.05ex%
3890   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3891   \begin{pgfpicture}
3892     \begin{pgfscope}%
3893       \pgfsetfillcolor{subsection in head/foot.bg}%
3894       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3895       \pgfsetfading{beamer@belowframetitlemask}{}%
3896       \pgfusepath{fill}%
3897     \end{pgfscope}%
3898   \end{pgfpicture}%
3899   \end{beamercolorbox}%
3900   \vskip-9.15ex%
3901   \if@RTL
3902     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3904   \else
3905     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3906       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3907     \fi
3908     \usebeamerfont{title in head/foot}\insertshorttitle
3909   \end{beamercolorbox}
3910   \if@RTL
3911     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3913   \else
3914     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3915       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3916     \fi
3917     \usebeamerfont{section in head/foot}%
3918     \hskip6pt\insertsectionhead
3919   \end{beamercolorbox}
3920   \if@RTL
3921     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3923   \else
3924     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3925       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3926     \fi
3927     \usebeamerfont{subsection in head/foot}%
3928     \hskip12pt\insertsubsectionhead

```





```

3929 \end{beamercolorbox}
3930 \vskip-0.4ex%
3931 }
3932
3933 \defbeamertemplate*{frametitle}{smoothtree theme}
3934 {%
3935 \nointerlineskip%
3936 \vskip-0.05ex%
3937 \usebeamerfont{headline}%
3938 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3939 \pgfuses shading{beamer@aboveframetitle}%
3940 \end{beamercolorbox}
3941 \nointerlineskip%
3942 \if@RTL
3943 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3944 \else
3945 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3946 \fi
3947 \vskip-1.2ex%
3948 \usebeamerfont*{frametitle}\strut\insertframetitle%
3949 \ifx\insertframesubtitle\@empty%
3950 \strut\par%
3951 \else
3952 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3953 \fi%%
3954 \usebeamerfont{headline}%
3955 \end{beamercolorbox}%
3956 \nointerlineskip
3957 \vskip-0.2ex%
3958 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3959 \begin{pgfpicture}
3960 \begin{pgfscope}%
3961 \pgfsetfillcolor{frametitle.bg}%
3962 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3963 \pgfsetfading{beamer@belowframetitlemask}{}%
3964 \pgfusepath{fill}%
3965 \end{pgfscope}%
3966 \end{pgfpicture}%
3967 \end{beamercolorbox}%
3968 }
3969
3970
3971 \AtBeginDocument{%
3972 \setbeamertemplate{frametitle}[smoothtree theme]%
3973 }
3974
3975

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3976 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3977 \bidi@csundef{beamer@tmpop@headline@tree theme}
3978
3979 \defbeamertemplate*{headline}{tree theme}

```



```

3980 {%
3981   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3982   \end{beamercolorbox}
3983   \if@RTL
3984   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3985     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3986   \else
3987   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3989   \fi
3990   \usebeamerfont{title in head/foot}\insertshorttitle
3991   \end{beamercolorbox}
3992   \if@RTL
3993   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3995   \else
3996   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3997     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3998   \fi
3999   \usebeamerfont{section in head/foot}%
4000   \ifbeamer@tree@showhooks
4001     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4002     \ifdim\wd\beamer@tempbox>1pt%
4003       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.}
4004       \hskip1pt%
4005     \fi%
4006   \else%
4007     \hskip6pt%
4008   \fi%
4009   \insertsectionhead
4010   \end{beamercolorbox}
4011   \if@RTL
4012   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4013     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4014   \else
4015   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4016     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4017   \fi
4018   \usebeamerfont{subsection in head/foot}%
4019   \ifbeamer@tree@showhooks
4020     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4021     \ifdim\wd\beamer@tempbox>1pt%
4022       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height}
4023       \hskip1pt%
4024     \fi%
4025   \else%
4026     \hskip12pt%
4027   \fi%
4028   \insertsubsectionhead
4029   \end{beamercolorbox}
4030   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4031   \end{beamercolorbox}
4032 }
4033

```



4034

### 43 File beamerthemeHannover-xetex-bidi.def

```
4035 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4036 \AtBeginDocument{%
4037   \if@RTLmain
4038     \setbeamertemplate{frametitle}[default][left]%
4039   \else
4040     \setbeamertemplate{frametitle}[default][right]%
4041   \fi
4042 }
4043
4044
```

### 44 File beamerthemeSingapore-xetex-bidi.def

```
4045 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4046 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4047
4048 \beamertemplatedotitem
4049
4050 \AtBeginDocument{%
4051   \setbeamertemplate{frametitle}[default][center]%
4052 }
4053
4054
```

### 45 File bidi.sty

```
4055 \NeedsTeXFormat{LaTeX2e}
4056 \def\bididate{2025/01/16}
4057 \def\bidi@version{41.6}
4058 \def\bidi@releasename{Maryam Mirzakhani}
4059 \newcommand*\bidi@releasename{\bidi@releasename}
4060 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space
4061 Bidirectional typesetting in plain TeX and LaTeX]
4062 \newif\if@bidi@banner
4063 \newif\if@bidi@pdfbanner
4064 \newif\if@bidi@debug
4065 \newif\if@extrafootnotefeatures
4066 \newif\if@nonlatin
4067 \newif\if@bidi@pdfmark
4068 \newif\if@bidi@perpage@footnote
4069 \ExplSyntaxOn
4070 \msg_new:nnn {bidi} {cannot-use-engine}
4071 {
4072   Oops!~can~not~use~\c_sys_engine_str.\\\
4073   The~bidi~package~requires~XeTeX.
4074 }
4075 \sys_if_engine_xetex:F
4076 {
4077   \msg_fatal:nn {bidi} {cannot-use-engine}
4078 }
```



```

4079
4080 \keys_define:nn { bidi }
4081 {
4082   banner .choice: ,
4083   banner / on .code:n = \@bidi@bannertrue ,
4084   banner / off .code:n = \@bidi@bannerfalse ,
4085   banner .default:n = on
4086 }
4087 \keys_define:nn { bidi }
4088 {
4089   PDFbanner .choice: ,
4090   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4091   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4092   PDFbanner .default:n = on
4093 }
4094 \keys_define:nn { bidi }
4095 {
4096   RTLdocument .choice: ,
4097   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4098   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4099   RTLdocument .default:n = on
4100 }
4101 \keys_define:nn { bidi }
4102 {
4103   rldocument .choice: ,
4104   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4105   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4106   rldocument .default:n = on
4107 }
4108 \keys_define:nn { bidi }
4109 {
4110   documentdirection .choice: ,
4111   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4112   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4113 }
4114 \keys_define:nn { bidi }
4115 {
4116   tabledirection .choice: ,
4117   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4118   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4119 }
4120 \keys_define:nn { bidi }
4121 {
4122   footnotedirection .choice: ,
4123   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4124   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   debugfootnotedirection .choice: ,
4129   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4130   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4131   debugfootnotedirection .default:n = on
4132 }

```



```

4133 \keys_define:nn { bidi }
4134 {
4135   footnoterule .choice: ,
4136   footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4137   footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4138   footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4139   footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4140   footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4141 }
4142 \keys_define:nn { bidi }
4143 {
4144   extrafootnotefeatures .choice: ,
4145   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4146   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4147   extrafootnotefeatures .default:n = on
4148 }
4149 \keys_define:nn { bidi }
4150 {
4151   script .choice: ,
4152   script / latin .code:n = \@nonlatinfalse ,
4153   script / nonlatin .code:n = \@nonlatintrue ,
4154   script .default:n = latin
4155 }
4156 \keys_define:nn { bidi }
4157 {
4158   DetectColumn .choice: ,
4159   DetectColumn / on .code:n =
4160     \def\bidi@firstcolumn@status@write{%
4161       \protected@write\@auxout{%
4162         {\string\bidi@column@status
4163           {1}}}
4164     \def\bidi@lastcolumn@status@write{%
4165       \protected@write\@auxout{%
4166         {\string\bidi@column@status{2}}} ,
4167   DetectColumn / off .code:n =
4168     \let\bidi@firstcolumn@status@write\relax
4169     \let\bidi@lastcolumn@status@write\relax ,
4170   DetectColumn .default:n = on
4171 }
4172 \keys_define:nn { bidi }
4173 {
4174   logo .choice: ,
4175   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4176   logo / off .code:n = \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty ,
4177   logo .default:n = on
4178 }
4179 \keys_define:nn { bidi }
4180 {
4181   pdfinfo .choice: ,
4182   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4183   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4184   pdfinfo .default:n = on
4185 }
4186 % The `perpagefootnote' option is documented in UK TeX FAQ at

```



```

4187% <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4188\keys_define:nn { bidi }
4189 {
4190   perpagefootnote .choice: ,
4191   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4192   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4193   perpagefootnote .default:n = on
4194 }
4195\keys_set:nn { bidi }
4196 {
4197   banner = on ,
4198   PDFbanner = on ,
4199   DetectColumn = off
4200 }
4201 }
4202\ExplSyntaxOff
4203\ProcessKeyOptions
4204\edef\@bidi@info{*****^J%
4205 * ^J%
4206 * bidi package (Bidirectional typesetting in^J%
4207 * plain TeX and LaTeX, using XeTeX engine)^J%
4208 * ^J%
4209 * Description: A convenient interface for^J%
4210 * typesetting bidirectional texts in plain TeX^J%
4211 * and LaTeX. The package includes adaptations^J%
4212 * for use with many other commonly-used packages.^J%
4213 * ^J%
4214 * Copyright (c) 2007--2025 Vafa Khalighi^J%
4215 * Copyright (c) 2018--2020 bidi-tex GitHub organization^J%
4216 * ^J%
4217 * v\bidi@version\space (Release \bidi@releasename), \bididate^J%
4218 * ^J%
4219 * License: LaTeX Project Public License, version^J%
4220 * 1.3c or higher (your choice)^J%
4221 * ^J%
4222 * Location on CTAN: /macros/xetex/latex/bidi^J%
4223 * ^J%
4224 * Issue tracker: https://github.com/xepersian/bidi/issues^J%
4225 * ^J%
4226 * Discussions: https://github.com/xepersian/bidi/discussions^J%
4227 * ^J%
4228 * Primary author of bidi package: Vafa Khalighi.^J%
4229 * ^J%
4230 *****}
4231 \edef\bidi@everyjob{\the\everyjob}
4232 \if@bidi@banner
4233   \typeout{\@bidi@info}
4234   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4235 \fi
4236 \newcommand*{\bidiversion}{\ensuremath\bidi@version}
4237 \newcommand*{\IfbidiPackageVersionLater}[1]{%
4238   \ifdim\bidi@version pt > #1 pt %
4239     \expandafter\@firstoftwo
4240   \else

```



```

4241     \expandafter\@secondoftwo
4242   \fi}
4243 \newcommand*\IfbidiPackageVersionBefore}[1]{%
4244   \ifdim\bidi@version pt < #1 pt %
4245     \expandafter\@firstoftwo
4246   \else
4247     \expandafter\@secondoftwo
4248   \fi}
4249 \newcommand*\IfbidiPackageVersion}[1]{%
4250   \ifdim\bidi@version pt = #1 pt %
4251     \expandafter\@firstoftwo
4252   \else
4253     \expandafter\@secondoftwo
4254   \fi}
4255 \RequirePackage{bidiutils}
4256 \RequirePackage{zref-abspage}
4257 \RequirePackage{auxhook}
4258 \RequirePackage{ltxcmds}
4259 \eqnewif{\if@RTLmain}{\if@rlmain}
4260 \eqnewif{\if@RTL}{\if@rl}
4261 \newcommand*\setlatin{\@nonlatinfalse}
4262 \newcommand*\setnonlatin{\@nonlatintrue}
4263 \eqnewif{\if@RTLtab}{\if@tab@rl}
4264 \newif\if@hboxRconstruct
4265 \newif\if@bidi@pdfencrypt
4266 \newcommand*\setRTLtable{\@RTLtabtrue}
4267 \newcommand*\setLTRtable{\@RTLtabfalse}
4268 \newif\if@RTLMarginpar
4269 \newif\if@LTRMarginpar
4270 \newif\if@LTRbibitems
4271 \newif\if@RTLBibitems
4272 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4273 \newif\if@bidi@list@minipage@parbox
4274 \newif\if@bidi@list@minipage@parbox@not@nob
4275 \newcommand*\@bidi@pdfcreator}{%
4276   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4277 }
4278 \newcommand*\@bidi@pdfproducer}{%
4279   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4280 }
4281 \newcommand*\@bidi@pdfcustomproperties}{%
4282   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4283   Released January 16, 2025.
4284 }
4285 \newcommand*\bidi@beamer@ragged}{%
4286 \@RTLmainfalse
4287 \AtBeginDocument{%
4288   \if@RTLmain\else
4289     \if@RTL\@RTLmaintrue%
4290     \else\@RTLmainfalse%
4291   \fi%
4292 \fi%
4293 }
4294 \let\n@xt=\

```



```

4295 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4296 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4297 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4298 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4299 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4300 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4301 \newinsert\@bidi@copyins@
4302 \skip\@bidi@copyins@=12\p@
4303 \dimen\@bidi@copyins@=40pc
4304 \count\@bidi@copyins@=1000
4305 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4306 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4307 \ifRTLmain
4308 \iftwocolumn
4309 \hboxR to \columnwidth
4310 \else
4311 \hboxR to \textwidth
4312 \fi
4313 \else
4314 \iftwocolumn
4315 \hboxL to \columnwidth
4316 \else
4317 \hboxL to \textwidth
4318 \fi
4319 \fi
4320 }
4321 \newcommand*{\@bidi@logo}[1]{%
4322 \toks@{%
4323 \setbox\z@\hbox{%
4324 \special{%
4325 pdf:image width 50pt height 50pt (#1)%
4326 }
4327 }%
4328 \dp\z@\z@
4329 \ht\z@=50pt
4330 \wd\z@=50pt
4331 \beginL
4332 \lower20pt\box\z@
4333 \endL
4334 }%
4335 \the\toks@
4336 }
4337 \newcount\bidi@typesethour
4338 \newcount\bidi@typesetminute
4339 \bidi@typesethour=\time
4340 \divide\bidi@typesethour 60
4341 \bidi@typesetminute=-\bidi@typesethour
4342 \multiply\bidi@typesetminute 60
4343 \advance\bidi@typesetminute \time
4344 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4345 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4346 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4347 \newcommand*{\@bidi@logo@}{%
4348 \@bidi@logo@hb@xt@columnwidth

```





```

4349   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4350   package\quad@bidi@logo{bidi-logo.pdf}}}}
4351 \ExplSyntaxOn
4352 \keys_define:nn { bidi / pdfencrypt }
4353   {
4354     userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4355     userpassword .default:n =
4356   }
4357 \keys_define:nn { bidi / pdfencrypt }
4358   {
4359     ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4360     ownerpassword .default:n =
4361   }
4362 \keys_define:nn { bidi / pdfencrypt }
4363   {
4364     keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4365     keylength .default:n = 128
4366   }
4367 \keys_define:nn { bidi / pdfencrypt }
4368   {
4369     permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4370     permissionflags .default:n = 2052
4371   }
4372 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4373 \ExplSyntaxOff
4374 \@onlypreamble\pdfencryptsetup
4375 \input{latex-xetex-bidi.def}
4376
4377 \pdfencryptsetup{%
4378   userpassword,%
4379   ownerpassword,%
4380   keylength,%
4381   permissionflags%
4382 }
4383
4384 \if@extrafootnotefeatures
4385   \input{extrafootnotefeatures-xetex-bidi.def}
4386 \fi
4387 \newcount\bidi@digits
4388 \XeTeXinterchartokenstate=\@ne
4389 \newXeTeXintercharclass\bidi@digits@charclass
4390 \newXeTeXintercharclass\bidi@sepmark@charclass
4391 \XeTeXcharclass \. \bidi@sepmark@charclass
4392 \XeTeXcharclass \- \bidi@sepmark@charclass
4393 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4394 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4395 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4396 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4397 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4398 \bidi@AtEndPreamble{%
4399   \if@bidi@perpage@footnote
4400     \RequirePackage{bidi-perpage}%
4401     \ResetCounterPerPage{footnote}%
4402   \fi

```



```

4403 \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4404   \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4405     \@bidi@pdfencryptfalse
4406   \else
4407     \@bidi@pdfencrypttrue
4408   \fi
4409 \else
4410   \@bidi@pdfencrypttrue
4411 \fi
4412 \if@bidi@pdfencrypt
4413   \special{pdf:encrypt
4414     userpw (\bidi@pdfencrypt@userpassword)
4415     ownerpw (\bidi@pdfencrypt@ownerpassword)
4416     length \bidi@pdfencrypt@keylength
4417     perm \bidi@pdfencrypt@permissionflags
4418   }%
4419 \fi
4420 }
4421 \if@bidi@pdfbanner
4422   \if@bidi@pdfm@mark
4423     \AtEndDocument{%
4424       \special{pdf:%
4425         docinfo<<%
4426           /Creator(\@bidi@pdfcreator)%
4427           /Producer(\@bidi@pdfproducer)%
4428           /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4429           \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4430             /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4431           }}%
4432         >>%
4433       }%
4434     }
4435   \else
4436     \AtEndDocument{%
4437       \special{pdf:%
4438         docinfo<<%
4439           /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4440           \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4441             /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4442           }}%
4443         >>%
4444       }%
4445     }
4446   \fi
4447 \else
4448   \if@bidi@pdfm@mark
4449     \AtEndDocument{%
4450       \special{pdf:%
4451         docinfo<<%
4452           /Creator(\@bidi@pdfcreator)%
4453           /Producer(\@bidi@pdfproducer)%
4454         >>%
4455       }%
4456     }

```



```
4457 \fi
4458 \fi
```

## 46 File bidi.tex

```
4459 \def\bididate{2025/01/16}
4460 \catcode\@=11
4461 \def\bidi@version{41.6}
4462 \def\bidi@releasename{Maryam Mirzakhani}
4463 \def\bidireleasename{\bidi@releasename}
4464 \let \protect \relax
4465 \newlinechar`\^^J
4466 \edef\@bidi@info{*****^^J%
4467 * ^^J%
4468 * bidi package (Bidirectional typesetting in^^J%
4469 * plain TeX and LaTeX, using XeTeX engine)^^J%
4470 * ^^J%
4471 * Description: A convenient interface for^^J%
4472 * typesetting bidirectional texts in plain TeX^^J%
4473 * and LaTeX. The package includes adaptations^^J%
4474 * for use with many other commonly-used packages.^^J%
4475 * ^^J%
4476 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4477 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4478 * ^^J%
4479 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4480 * ^^J%
4481 * License: LaTeX Project Public License, version^^J%
4482 * 1.3c or higher (your choice)^^J%
4483 * ^^J%
4484 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4485 * ^^J%
4486 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4487 * ^^J%
4488 * Discussions: https://github.com/xepersian/bidi/discussions^^J%
4489 * ^^J%
4490 * Primary author of bidi package: Vafa Khalighi.^^J%
4491 * ^^J%
4492 *****}
4493 \edef\bidi@everyjob{\the\everyjob}
4494 \message{\@bidi@info}
4495 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4496 \def\bidiversion{%
4497 \relax
4498 \ifmode
4499 \bidi@version
4500 \else
4501 $\bidi@version$
4502 \fi
4503 }
4504 \input iftex.sty
4505 \RequireXeTeX
4506 \newif\if@bidi@pdfm@mark
4507 \newif\if@RTLmain
```



```

4508 \newif\if@RTL
4509 \newif\if@hboxRconstruct
4510 \newif\if@sendl
4511 \newif\if@RTL@footnote
4512 \@RTLmainfalse
4513 \def\setRTLmain{%
4514   \if@RTLmain\else
4515     \if@RTL\@RTLmaintrue%
4516     \else\@RTLmainfalse%
4517     \fi%
4518   \fi%
4519 }
4520 \let\n@xt=\
4521 \protected\def\LRE{\protect\pLRE}%
4522 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4523 \protected\def\RLE{\protect\pRLE}
4524 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4525 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4526   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4527 \newinsert\@bidi@copyins@
4528 \skip\@bidi@copyins@=12\p@
4529 \dimen\@bidi@copyins@=40pc
4530 \count\@bidi@copyins@=1000
4531 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4532 \def\@bidi@logo@hb@xt@{%
4533   \if@RTLmain
4534     \hboxR to
4535   \else
4536     \hboxL to
4537   \fi
4538 }
4539 \def\@bidi@logo#1{%
4540   \toks@{%
4541     \setbox\z@\hbox{%
4542       \special{%
4543         pdf:image width 50pt height 50pt (#1)%
4544       }
4545     }%
4546     \dp\z@\z@
4547     \ht\z@=50pt
4548     \wd\z@=50pt
4549     \beginL
4550     \lower20pt\box\z@
4551     \endL
4552   }%
4553   \the\toks@
4554 }
4555 \def\today{\ifcase\month\or
4556   January\or February\or March\or April\or May\or June\or
4557   July\or August\or September\or October\or November\or December\fi
4558   \space\number\day, \number\year}
4559 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4560 \newcount\bidi@typesethour
4561 \newcount\bidi@typesetminute

```



```

4562 \bidi@typesethour=\time
4563 \divide\bidi@typesethour 60
4564 \bidi@typesetminute=-\bidi@typesethour
4565 \multiply\bidi@typesetminute 60
4566 \advance\bidi@typesetminute \time
4567 \def\TypesetHour{\two@digits\bidi@typesethour}
4568 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4569 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4570 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4571 \def\bidilogo{\@bidi@inslogo}
4572 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4573 \def\@bidi@pdfcreator{%
4574 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4575 }
4576 \def\@bidi@pdfproducer{%
4577 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4578 }
4579 \def\@bidi@pdfcustomproperties{%
4580 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4581 Released January 16, 2025.
4582 }
4583 \def\bidi@pdfm@mark{%
4584 \special{pdf:
4585 docinfo<<%
4586 \if@bidi@pdfm@mark
4587 /Creator(\@bidi@pdfcreator)%
4588 /Producer(\@bidi@pdfproducer)%
4589 \fi
4590 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4591 >>%
4592 }%
4593 }
4594 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4595 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4596 \input plain-xetex-bidi.def
4597 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4598 \catcode\@=12
4599 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4600 \NeedsTeXFormat{LaTeX2e}
4601 \ProvidesPackage{bidi2in1}
4602 \pagestyle{plain}
4603 \newcount\evenpage
4604 \newcount\oddpages
4605 \twocolumn
4606 \def\@oddfoot{\evenpage=\thepage%
4607 \multiply\evenpage by 2%
4608 \oddpages=\the\evenpage%
4609 \advance\oddpages by -1%
4610 \hfil\the\evenpage\hfil\hfil\the\oddpages\hfil}%
4611 \def\@evenfoot{\evenpage=\thepage%
4612 \multiply\evenpage by 2%

```



```

4613 \oddpaper=\the\evenpage%
4614 \advance\oddpaper by -1%
4615 \hfil\the\oddpaper\hfil\hfil\the\evenpage\hfil}%
4616 \textwidth 9.49in
4617 \textheight 6.7in
4618 \columnsep 0.9in
4619 \columnseprule 0.125pt
4620 \headheight 0cm
4621 \topmargin 0in
4622 \marginparwidth 0in
4623 \marginparsep 0in
4624 \hoffset 0.05in % Corrected
4625 \voffset -0.5in %top margin space is 1.0in by default
4626 \oddsidemargin 0in
4627 \evensidemargin 0in
4628 \headsep 0cm
4629 \topskip 0cm
4630 \parskip 0.15in %
4631 \headsep 0pt
4632 \special{papersize=11.69in,8.26in}
4633 \renewcommand\maketitle{\par
4634 \begingroup
4635 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4636 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4637 \long\def\@makefntext##1{\parindent 1em\noindent
4638 \hb@xt@1.8em{%
4639 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4640 \@maketitle
4641 \@thanks
4642 \endgroup
4643 \setcounter{footnote}{0}%
4644 \global\let\thanks\relax
4645 \global\let\maketitle\relax
4646 \global\let\@maketitle\relax
4647 \global\let\@thanks\@empty
4648 \global\let\@author\@empty
4649 \global\let\@date\@empty
4650 \global\let\@title\@empty
4651 \global\let\title\relax
4652 \global\let\author\relax
4653 \global\let\date\relax
4654 \global\let\and\relax
4655 }

```

## 48 File bidicode.sty

```

4656 \NeedsTeXFormat{LaTeX2e}
4657 \ProvidesPackage{bidicode}
4658 \RequirePackage{xcolor}
4659 \RequirePackage{showexpl}
4660 \definecolor{hellgelb}{rgb}{1,1,0.85}
4661 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4662 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4663 \definecolor{colIdentifier}{rgb}{0,0,0}

```



```

4664 \definecolor{colComments}{rgb}{1,0,0}
4665 \definecolor{colString}{rgb}{0,0.5,0}
4666 \lstset{%
4667     language=[LaTeX]TeX,%
4668     float=hbp,%
4669     basicstyle=\ttfamily\small,%
4670     identifierstyle=\color{colIdentifier},%
4671     keywordstyle=\color{colKeys},%
4672     texcsstyle=*\color{colCS},%
4673     stringstyle=\color{colString},%
4674     commentstyle=\color{colComments},%
4675     backgroundcolor=\color{hellgelb},%
4676     columns=flexible,%
4677     tabsize=4,%
4678     extendedchars=true,%
4679     showspaces=false,%
4680     showstringspaces=false,%
4681     numbers=left,%
4682     numbersep=0.9em,%
4683     numberstyle=\tiny,%
4684     frame=single,%
4685     captionpos=b,%
4686     xleftmargin=1em,%
4687     breaklines=true,%
4688     breakautoindent=false,%
4689     breakindent=0pt,%
4690     escapeinside=**,%
4691     pos=r,%
4692     explpreset={%
4693         xleftmargin=1em,%
4694         columns=flexible,%
4695         language=[LaTeX]TeX%
4696     },%
4697     moretexcs={%
4698         bididate,%
4699         bidiversion,%
4700         deflatinfont,%
4701         defpersianfont,%
4702         ding,%
4703         endLTR,%
4704         endRTL,%
4705         false,%
4706         falsesymbol,%
4707         junicode,%
4708         lr,%
4709         LR,%
4710         LRE,%
4711         LTR,%
4712         maketitle,%
4713         Nastaliq,%
4714         newfontfamily,%
4715         Parsifont,%
4716         part,%
4717         RL,%

```



```

4718     RLE,%
4719     RTL,%
4720     RTLcases,%
4721     SepMark,%
4722     setLR,%
4723     setLTR,%
4724     setRL,%
4725     setRTL,%
4726     settextfont,%
4727     subsection,%
4728     subsubsection,%
4729     tableofcontents,%
4730     text,%
4731     theequation,%
4732     thesection,%
4733     true,%
4734     truesymbol,%
4735     XePersian,%
4736     xepersiandate,%
4737     xepersianversion%
4738 }%
4739 }
4740 \newcommand\HLON{%
4741   \gdef\lst@alloverstyle##1{%
4742     \fboxrule=Opt
4743     \fboxsep=Opt
4744     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4745 }}
4746 \newcommand\HLOFF{%
4747   \xdef\lst@alloverstyle##1{##1}%
4748 }
4749 \newcommand\Larg [1]{\normalfont\itshape#1\}/}
4750 \newcommand\Larga[1]{\langle$Larg{#1}\rangle$}
4751 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4752 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4753 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4754 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4755 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4756
4757 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4758 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`~}
4759 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`~}
4760 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4761 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4762 \DeclareRobustCommand\lrb{\normalfont\ttfamily()}
4763 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}}
4764
4765 \def\Lcs#1{\nxLcs{#1}}
4766 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4767 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4768
4769 \def\Coordx#1{$x_{#1}$}
4770 \def\Coordy#1{$y_{#1}$}
4771 \def\Coordz#1{$z_{#1}$}

```





```

4772 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4773 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4774 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4775 \def\CAny{\Coordx{}},\kern 1pt\Coordy{}
4776 \def\CIIAny{\Coordx{}},\kern 1pt\Coordy{},\kern 1pt\Coordz{}
4777 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4778 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4779 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4780 \def\coordx#1{($x_{#1}$)}
4781 \def\coordy#1{($y_{#1}$)}
4782 \def\coordz#1{($z_{#1}$)}
4783 \def\cAny{(\Coordx{}},\kern 1pt\Coordy{}}
4784 \def\ciiAny{(\Coordx{}},\kern 1pt\Coordy{}},\kern 1pt\Coordz{}}
4785
4786 \newsavebox{\boxdef}
4787 \newenvironment{BDef}
4788   {\begin{lrbox}\boxdef
4789     \def\arraystretch{1.0}
4790     \begin{tabular}{@{}l@{}l@{}l@{}}
4791   }
4792   {\end{tabular}\end{lrbox}}
4793
4794   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4795   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4796 }
4797
4798 \newenvironment{BDef*}
4799   {\begin{lrbox}\boxdef
4800     \def\arraystretch{1.0}
4801     \begin{tabular}{@{}l@{}l@{}l@{}}
4802   }
4803   {\end{tabular}\end{lrbox}}
4804   {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4805   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4806 }
4807 \newenvironment{BCmd}{
4808   \@beginparpenalty-\@lowpenalty
4809   \topsep\BDefaboveskip
4810   \fbboxsep3pt
4811   \flushleft}
4812 {\@endparpenalty\@M
4813   \topsepadd\BDefbelowskip
4814   \endflushleft}
4815
4816 \newenvironment{BCmd*}{
4817   \@beginparpenalty\@M
4818   \topsep\BDefinlineskip
4819   \fbboxsep3pt
4820   \flushleft}
4821 {\@endparpenalty5000
4822   \endflushleft}
4823
4824 \newskip\BDefaboveskip
4825 \newskip\BDefbelowskip

```



```

4826 \newskip\BDefinlineskip
4827 \setlength\BDefaboveskip{10pt plus 4pt}
4828 \setlength\BDefbelowskip{6pt}
4829 \setlength\BDefinlineskip{6pt}
4830
4831 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4832 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4833 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4834 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4835 \NeedsTeXFormat{LaTeX2e}
4836 \ProvidesPackage{bidiftnxtra}
4837 \newtoks\bidip@ftn
4838 \let\FN@sf@footnote\footnote
4839 \let\FN@sf@LTRfootnote\LTRfootnote
4840 \let\FN@sf@RTLfootnote\RTLfootnote
4841 \def\footnote{\ifx\protect\@typeset@protect
4842   \expandafter\FN@sf@footnote
4843   \else
4844     \expandafter\FN@sf@gobble@opt
4845   \fi
4846 }
4847 \def\LTRfootnote{\ifx\protect\@typeset@protect
4848   \expandafter\FN@sf@LTRfootnote
4849   \else
4850     \expandafter\FN@sf@gobble@opt
4851   \fi
4852 }
4853 \def\RTLfootnote{\ifx\protect\@typeset@protect
4854   \expandafter\FN@sf@RTLfootnote
4855   \else
4856     \expandafter\FN@sf@gobble@opt
4857   \fi
4858 }
4859 \edef\FN@sf@gobble@opt{\noexpand\protect
4860   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
4861 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
4862   \@ifnextchar[%]
4863     \FN@sf@gobble@twobrace
4864     \@gobble
4865 }
4866 \def\FN@sf@gobble@twobrace[#1]#2{}
4867 \let\FN@sf@footnotemark\footnotemark
4868 \def\footnotemark{\ifx\protect\@typeset@protect
4869   \expandafter\FN@sf@footnotemark
4870   \else
4871     \expandafter\FN@sf@gobble@optonly
4872   \fi
4873 }
4874 \edef\FN@sf@gobble@optonly{\noexpand\protect
4875   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
4876 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%

```



```

4877 \@ifnextchar[%]
4878   \FN@sf@gobble@bracket
4879   {%
4880 }
4881 \def\FN@sf@gobble@bracket[#1]{%
4882 \def\@tabular{%
4883   \leavevmode \hbox \bgroup
4884   \let\@footnotetext\@bidi@p@ftntext
4885   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4886   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4887   \let\@xfootnotenext\@bidi@p@xftntext
4888   \let\@xfootnote\@bidi@p@xfootnote
4889   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4890   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4891   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4892   \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4893   \if@RTLtab\beginR \fi
4894   $\let\@acol\@tabacol
4895   \let\@classz\@tabclassz
4896   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4897 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
4898   \egroup $\if@RTLtab\endR\fi\egroup
4899   \ifx\@cuptype\@undefined
4900     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4901 \long\def\@bidi@p@ftntext#1{%
4902   \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
4903   \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4904 \long\def\@bidi@p@LTRftntext#1{%
4905   \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4906   \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
4907 \long\def\@bidi@p@RTLftntext#1{%
4908   \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4909   \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
4910
4911
4912 \long\def\@bidi@p@xftntext[#1]#2{%
4913   \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}
4914
4915 \long\def\@bidi@p@xLTRftntext[#1]#2{%
4916   \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\LTRfootnotetext[#1]{#2}}
4917
4918 \long\def\@bidi@p@xRTLftntext[#1]#2{%
4919   \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\RTLfootnotetext[#1]{#2}}
4920
4921
4922 \def\@bidi@p@xfootnote[#1]{%
4923   \begingroup
4924     \csname c@\@mpfn\endcsname #1\relax
4925     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4926   \endgroup
4927   \@footnotemark\@bidi@p@xftntext[#1]}
4928
4929
4930 \def\@bidi@p@xLTRfootnote[#1]{%

```



```

4931 \begingroup
4932 \csname c@\@mpfn\endcsname #1\relax
4933 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4934 \endgroup
4935 \@footnotemark\@bidi@p@xLTRftntext[#1]}
4936
4937
4938 \def\@bidi@p@xRTLfootnote[#1]{%
4939 \begingroup
4940 \csname c@\@mpfn\endcsname #1\relax
4941 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4942 \endgroup
4943 \@footnotemark\@bidi@p@xRTLftntext[#1]}
4944
4945 \def\@xfloat #1[#2]{%
4946 \@nodocument
4947 \def \@capttype {#1}%
4948 \def \@fps {#2}%
4949 \@onelevel@sanitize \@fps
4950 \def \reserved@b {!}%
4951 \ifx \reserved@b \@fps
4952 \@fpsadddefault
4953 \else
4954 \ifx \@fps \@empty
4955 \@fpsadddefault
4956 \fi
4957 \fi
4958 \ifhmode
4959 \@bsphack
4960 \@floatpenalty -\@Mii
4961 \else
4962 \@floatpenalty-\@Miii
4963 \fi
4964 \ifinner
4965 \@parmoderr\@floatpenalty\z@
4966 \else
4967 \@next\@currbox\@freelist
4968 {%
4969 \@tempcnta \sixt@n
4970 \expandafter \@tfor \expandafter \reserved@a
4971 \expandafter :\expandafter =\@fps
4972 \do
4973 {%
4974 \if \reserved@a h%
4975 \ifodd \@tempcnta
4976 \else
4977 \advance \@tempcnta \@ne
4978 \fi
4979 \fi
4980 \if \reserved@a t%
4981 \@setfpsbit \tw@
4982 \fi
4983 \if \reserved@a b%
4984 \@setfpsbit 4%

```



```

4985     \fi
4986     \if \reserved@a p%
4987         \setfpsbit 8%
4988     \fi
4989     \if \reserved@a !%
4990         \ifnum \@tempcnta>15
4991             \advance\@tempcnta -\sixt@n\relax
4992         \fi
4993     \fi
4994 }%
4995     \@tempcntb \csname ftype@\@capytype \endcsname
4996     \multiply \@tempcntb \@xxxii
4997     \advance \@tempcnta \@tempcntb
4998     \global \count\@currbox \@tempcnta
4999 }%
5000 \@fltovf
5001 \fi
5002 \global \setbox\@currbox
5003     \color@vbox
5004     \normalcolor
5005     \vbox \bgroup
5006     \let\@footnotetext\@bidi@p@ftntext
5007     \let\@LTRfootnotetext\@bidi@p@LTRftntext
5008     \let\@RTLfootnotetext\@bidi@p@RTLftntext
5009     \let\@xfootnotenext\@bidi@p@xftntext
5010     \let\@xfootnote\@bidi@p@xfootnote
5011     \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
5012     \let\@xLTRfootnote\@bidi@p@xLTRfootnote
5013     \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
5014     \let\@xRTLfootnote\@bidi@p@xRTLfootnote
5015     \hsize\columnwidth
5016     \parboxrestore
5017     \floatboxreset
5018 }
5019 \def \@endfloatbox{%
5020     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
5021     \@minipagefalse
5022     \outer@nobreak
5023     \egroup                %% end of vbox
5024     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5025     \color@endbox
5026 }

```

## 50 File bidimoderncv.cls

```

5027 \NeedsTeXFormat{LaTeX2e}
5028 \ProvidesClass{bidimoderncv}
5029 \newif\if@DEBUG\@DEBUGfalse
5030 \DeclareOption{a4paper}{
5031     \setlength\paperheight{297mm}
5032     \setlength\paperwidth{210mm}}
5033 \DeclareOption{a5paper}{
5034     \setlength\paperheight{210mm}
5035     \setlength\paperwidth{148mm}}

```



```

5036 \DeclareOption{b5paper}{
5037   \setlength\paperheight{250mm}
5038   \setlength\paperwidth{176mm}}
5039 \DeclareOption{letterpaper}{
5040   \setlength\paperheight{11in}
5041   \setlength\paperwidth{8.5in}}
5042 \DeclareOption{legalpaper}{
5043   \setlength\paperheight{14in}
5044   \setlength\paperwidth{8.5in}}
5045 \DeclareOption{executivepaper}{
5046   \setlength\paperheight{10.5in}
5047   \setlength\paperwidth{7.25in}}
5048 \DeclareOption{landscape}{
5049   \setlength\@tempdima\paperheight}
5050   \setlength\paperheight{\paperwidth}
5051   \setlength\paperwidth{\@tempdima}}
5052 \newcommand\@ptsize{}
5053 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5054 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5055 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5056 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5057 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5058 \newif\if@colour\@colourtrue
5059 \DeclareOption{nocolour}{\@colourfalse}
5060 \ExecuteOptions{a4paper,11pt,colour,final}
5061 \ProcessOptions\relax
5062 \input{size1\@ptsize.clo}
5063 \RequirePackage{color}
5064 \RequirePackage{graphicx}
5065 \RequirePackage{ifthen}
5066 \RequirePackage{marvosym}
5067 \addtolength{\oddsidemargin}{-54pt}
5068 \addtolength{\textwidth}{109pt}
5069 \addtolength{\topmargin}{-70pt}
5070 \addtolength{\textheight}{122pt}
5071 \addtolength{\marginparsep}{-5pt}
5072 \addtolength{\marginparwidth}{-10pt}
5073 \RequirePackage{url}
5074 \RequirePackage{hyperref}
5075 \hypersetup{%
5076   breaklinks,
5077   baseurl      = http://,%
5078   pdfborder    = 0 0 0,%
5079   pdfpagemode = UseNone,%
5080   pdfstartpage = 1}
5081 \AtEndOfClass{%
5082   \AtBeginDocument{%
5083     \hypersetup{%
5084       pdfauthor   = \@firstname~\@familyname,%
5085       pdftitle    = \@title,%
5086       pdfsubject  = \@firstname~\@familyname,%
5087       pdfkeywords = \@resumename~\@firstname~\@familyname}}}}
5088 \urlstyle{tt}
5089 \RequirePackage{fancyhdr}

```



```

5090 \fancypagestyle{plain}{%
5091   \renewcommand{\headrulewidth}{0pt}
5092   \renewcommand{\footrulewidth}{0pt}
5093   \fancyhf{}}
5094 \pagestyle{plain}
5095 \setlength\lineskip{1\p@}
5096 \setlength\normallineskip{1\p@}
5097 \renewcommand\baselinestretch{}
5098 \setlength{\parindent}{0pt}
5099 \setlength{\parskip}{0pt}
5100 \setlength\columnsep{10\p@}
5101 \setlength\columnseprule{0\p@}
5102 \pagestyle{empty}
5103 \pagenumbering{arabic}
5104 \raggedbottom
5105 \onecolumn
5106 \providecommand*\listitemssymbol{\textbullet}
5107 \providecommand*\addresssymbol{}
5108 \providecommand*\mobilesymbol{\Mobilefone}
5109 \providecommand*\phonesymbol{\Telefon}
5110 \providecommand*\faxsymbol{\FAX}
5111 \providecommand*\emailsymbol{\Letter}
5112 \definecolor{firstnamecolour}{rgb}{0,0,0}
5113 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5114 \def\familynamcolour#1{\gdef\@familynamcolour{\addfontfeature{Color=#1}}}
5115 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5116 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5117 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5118 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5119 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5120 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5121 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5122 \providecommand*\firstnamefont{}
5123 \providecommand*\familynamefont{}
5124 \providecommand*\titlefont{}
5125 \providecommand*\addressfont{}
5126 \providecommand*\quoteftfont{}
5127 \providecommand*\sectionfont{}
5128 \providecommand*\subsectionfont{}
5129 \providecommand*\hintfont{\small}
5130 \providecommand*\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5131 \providecommand*\familynamestyle}[1]{\{\@familynamefont\@familynamecolour#1}}
5132 \providecommand*\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
5133 \providecommand*\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5134 \providecommand*\quotestyle}[1]{\{\@quoteftfont\@quotecolour#1}}
5135 \providecommand*\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5136 \providecommand*\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5137 \providecommand*\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5138 \newcommand*\cvtheme}[2][{}]{
5139   \def\@cvtheme{#2}
5140   \def\@cvthemeoptions{#1}}
5141 \cvtheme{bidi-casual}
5142 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5143 \newcommand*\resumename}[1]{\def\@resumename{#1}}

```



```

5144 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5145 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5146 \renewcommand*{\title}[1]{\def\@title{#1}}
5147 \newcommand*{\address}[1]{\def\@address{#1}}
5148 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5149 \newcommand*{\phone}[1]{\def\@phone{#1}}
5150 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5151 \newcommand*{\email}[1]{\def\@email{#1}}
5152 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5153 \def\@photowidth{0pt}
5154 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5155 \newcommand*{\quote}[1]{\def\@quote{#1}}
5156 \newlength{\quotewidth}
5157 \newlength{\hintscolumnwidth}
5158 \newlength{\separatorcolumnwidth}
5159 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5160 \newlength{\maincolumnwidth}
5161 \newlength{\doubleitemmaincolumnwidth}
5162 \newlength{\listitemsymbolwidth}
5163 \settoheight{\listitemsymbolwidth}{\listitemsymbol{}}
5164 \newlength{\listitemmaincolumnwidth}
5165 \newlength{\listdoubleitemmaincolumnwidth}
5166 \newcommand*{\recomputethemelengths}{}
5167 \newcommand*{\recomputelengths}{%
5168 \setlength{\quotewidth}{0.65\textwidth}%
5169 \setlength{\maincolumnwidth}{\textwidth}%
5170 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5171 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5172 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5173 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5174 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5175 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5176 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5177 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5178 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5179 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5180 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5181 \renewcommand{\headwidth}{\textwidth}%
5182 \recomputethemelengths}
5183 \setlength{\hintscolumnwidth}{0.15\textwidth}
5184 \recomputelengths
5185 \title{}
5186 \renewcommand*{\maketitle}{}
5187 \newcommand*{\section}[1]{%
5188 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5189 \phantomsection}%
5190 \addcontentsline{toc}{part}{#1}%
5191 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5192 \hspace{\separatorcolumnwidth}%
5193 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\ll[1ex]}
5194 \newcommand*{\subsection}[1]{%
5195 \cvline[0.45em]{\subsectionstyle{#1}}
5196 \newcommand*{\cvline}[3][.25em]{%
5197 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}

```





```

5198     \bidi@raggedleft\hintfont{#2} &{#3}%
5199     \end{tabular}\{#1\}
5200 \newcommand*{\cvdoubleitem}[4]{%
5201 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5202 \hfill%
5203 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5204 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
5205 \cvline[Opt]{#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5206 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
5207 \cvline[Opt]{#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5208 \hfill%
5209 \ifthenelse{\equal{#3}{}}%
5210 {}%
5211 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}
5212 \newcommand*{\cventry}[6]{%
5213 \cvline{#1}{%
5214 {\bfseries#2}%
5215 \ifx#3\else{, \slshape#3}\fi%
5216 \ifx#4\else{, #4}\fi%
5217 \ifx#5\else{, #5}\fi%
5218 .%
5219 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5220 }%
5221 \newcommand*{\cvlanguage}[3]{%
5222 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin
5223 \newcommand*{\cvcomputer}[4]{%
5224 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5225 \newcommand*{\link}[2][ ]{%
5226 \ifthenelse{\equal{#1}{}}%
5227 {\href{#2}{#2}}%
5228 {\href{#2}{#1}}}
5229 \newcommand*{\httplink}[2][ ]{%
5230 \ifthenelse{\equal{#1}{}}%
5231 {\href{http://#2}{#2}}%
5232 {\href{http://#2}{#1}}}
5233 \newcommand*{\emailink}[2][ ]{%
5234 \ifthenelse{\equal{#1}{}}%
5235 {\href{mailto:#2}{#2}}%
5236 {\href{mailto:#2}{#1}}}
5237 \newif\if@displaypagenumbers\@displaypagenumberstrue
5238 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5239 \AtBeginDocument{%
5240 \if@displaypagenumbers%
5241 \ifundefined{r@lastpage}{%
5242 \ifthenelse{\pageref{lastpage} > 1}{%
5243 \fancypagestyle{plain}{%
5244 \fancyfoot[r]{\beginL\addressfont\quotecolour\footnotesize\thepage\beginL\endL\pag
5245 \pagestyle{plain}}}%
5246 \AtEndDocument{\label{lastpage}}%
5247 \fi}
5248 \newlength{\bibindent}
5249 \setlength{\bibindent}{1.5em}
5250 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5251 \newenvironment{thebibliography}[1]{%

```



```

5252 {%
5253   \section{\refname}%
5254   \small%
5255   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5256   \bidi@thebibliography@font@hook%
5257   \begin{list}{\bibliographyitemlabel}%
5258     {%
5259       \setlength{\topsep}{Opt}%
5260       \setlength{\labelwidth}{\hintscolumnwidth}%
5261       \setlength{\labelsep}{\separatorcolumnwidth}%
5262       \leftmargin\labelwidth%
5263       \advance\leftmargin\labelsep%
5264       \@openbib@code%
5265       \usecounter{enumiv}%
5266       \let\p@enumiv\@empty%
5267       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5268     \sloppy\clubpenalty4000\widowpenalty4000%
5269   }%
5270   {%
5271     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5272     \end{list}%
5273   }
5274 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5275 \let\@openbib@code\@empty

```

## 51 File bidi-perpage.sty

```

5276 \NeedsTeXFormat{LaTeX2e}
5277 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5278 \newcount\bidi@page@count
5279 \bidi@page@count\@ne
5280 \newcommand*\ResetCounterPerPage[2][\z@]{%
5281   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5282     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{}%
5283   }{}%
5284   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5285     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5286   }{}%
5287   \if@bidi@csundef\bidi@#2@count}{%
5288     \expandafter\newcount\csname bidi@#2@count\endcsname
5289   }{}%
5290   \csname bidi@#2@count\endcsname\z@
5291   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5292     \expandafter\newcount\csname
5293       bidi@previous@page@#2@count\endcsname
5294   }{}%
5295   \csname bidi@previous@page@#2@count\endcsname\z@
5296   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5297     \bidi@AfterEndDocumentCheckLabelsRerun{%
5298       \csname if@bidi@reset@#2@rerun\endcsname
5299       \PackageWarningNoLine{bidi-perpage}{%
5300         Counter `#2' may not have been reset per page.
5301         Rerun to reset counter `#2' per page%
5302       }%

```



```

5303     \fi
5304   }%
5305 }-{}%
5306 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5307   \global\advance\csname bidi@#2@count\endcsname\@ne
5308   \if@filesw
5309     \edef\@tempa{%
5310       \write\@auxout{%
5311         \string\bidi@counter@page{#2}%
5312         {\number\csname bidi@#2@count\endcsname}%
5313         {\noexpand\number\noexpand\bidi@page@count}%
5314       }%
5315     }%
5316     \@tempa
5317   \fi
5318 \begingroup\expandafter\expandafter\expandafter\endgroup
5319 \expandafter\ifx\csname bidi@#2@@\number\csname
5320 bidi@#2@count\endcsname\endcsname\relax
5321   \global\csname @bidi@reset@#2@reruntrue\endcsname
5322 \else
5323   \global\csname @bidi@reset@#2@rerunfalse\endcsname
5324   \expandafter\@tempcnta\csname bidi@#2@@\number
5325   \csname bidi@#2@count\endcsname\endcsname\relax
5326   \ifnum\@tempcnta=\csname
5327   bidi@previous@page@@#2@count\endcsname
5328   \else
5329     \global\csname
5330     bidi@previous@page@@#2@count\endcsname\@tempcnta
5331     \global\csname c@#2\endcsname#1\relax
5332   \fi
5333 \fi
5334 }%
5335 \expandafter\bidi@gappto\csname
5336 bidi@stepcounterhook@@#2\endcsname{%
5337   \csname bidi@reset@#2@perpage\endcsname
5338 }%
5339 }
5340 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@#2}{#3}}
5341 \bidi@AtEndOutputPage{%
5342   \global\advance\bidi@page@count\@ne
5343 }

```

## 52 File biditools.sty

```

5344 \NeedsTeXFormat{LaTeX2e}
5345 \ProvidesPackage{biditools}[2025/01/03 v2.6 Programming tools for bidi package]
5346 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\\relax
5347   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5348   \ifx\@tempa\@tempb \global\let#2#1%
5349   \else
5350     \edef\@tempb{\meaning#2}%
5351     \ifx\@tempa\@tempb
5352     \else
5353       \latex@error{Unable to properly define \string#2; primitive

```



```

5354     \noexpand#1no longer primitive}\@eha
5355     \fi
5356 \fi
5357 \endgroup}
5358 \newtoks\@bidi@envbody
5359 \newtoks\@bidi@emptytoks
5360 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5361 \def\bidi@collect@body#1{%
5362   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5363   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5364   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5365   \begingroup
5366   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5367   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5368   \bidi@process@envbody
5369 }
5370 \def\bidi@push@begins#1\begin#2{%
5371   \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5372 }
5373 \def\bidi@collect@@body#1\end#2{%
5374   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5375   \ifx\@empty\begin@bidi@stack
5376     \endgroup
5377     \@checkend{#2}%
5378     \bidi@addto@envbody{#1}%
5379   \else
5380     \bidi@addto@envbody{#1\end{#2}}%
5381   \fi
5382   \bidi@process@envbody % A little tricky! Note the grouping
5383 }
5384 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5385 \long\def\bidi@collect@long@body#1{%
5386   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5387   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5388   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5389   \begingroup
5390   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5391   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5392   \bidi@process@envbody
5393 }
5394 \long\def\bidi@push@long@begins#1\begin#2{%
5395   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5396 }
5397 \long\def\bidi@collect@long@@body#1\end#2{%
5398   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5399   \ifx\@empty\begin@bidi@stack
5400     \endgroup
5401     \@checkend{#2}%
5402     \bidi@addto@long@envbody{#1}%
5403   \else
5404     \bidi@addto@long@envbody{#1\end{#2}}%
5405   \fi
5406   \bidi@process@envbody % A little tricky! Note the grouping
5407 }

```



```

5408 \long\def\ bidi@new@ifnextchar#1#2#3{%
5409   \let\reserved@d= #1%
5410   \def\reserved@a{#2}\def\reserved@b{#3}%
5411   \futurelet\@let@token\ bidi@new@ifnch
5412 }
5413 \def\ bidi@new@ifnch{%
5414   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5415   \reserved@b
5416 }
5417 \def\ bidi@matrix@check#1{%
5418   \expandafter\ifx\csname\@currentenv\endcsname#1%
5419   \else\ bidi@matrix@error#1%
5420     \expandafter\@gobble
5421   \fi
5422 }
5423 \def\ bidi@matrix@error#1{%
5424   \PackageError{biditools}{%
5425 Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5426 }{%
5427 '\string#1{...}' is old bidi package syntax whose use is
5428 ill-advised in the old versions of bidi package.%
5429 }%
5430 }
5431 \def\ eqnewif#1#2{%
5432   \count@\escapechar \escapechar\m@ne
5433   \let#1\iffalse
5434   \let#2\iffalse
5435   \eq@if#1#2\iftrue
5436   \eq@if#1#2\iffalse
5437   \escapechar\count@}
5438 \def\ eq@if#1#2#3{%
5439   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5440     \expandafter\@gobbletwo\string#3\endcsname
5441     {\let#1#3%
5442     \let#2#3}%
5443   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5444     \expandafter\@gobbletwo\string#3\endcsname
5445     {\let#2#3%
5446     \let#1#3}}
5447 \def\ noteqnewif#1#2{%
5448   \count@\escapechar \escapechar\m@ne
5449   \let#1\iffalse
5450   \let#2\iffalse
5451   \not@eq@if#1#2\iftrue\iffalse
5452   \escapechar\count@}
5453 \def\ not@eq@if#1#2#3#4{%
5454   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5455     \expandafter\@gobbletwo\string#3\endcsname
5456     {\let#1#3%
5457     \let#2#4}%
5458   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5459     \expandafter\@gobbletwo\string#4\endcsname
5460     {\let#1#4%
5461     \let#2#3}%

```



```

5462 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5463         \expandafter@gobbletwo\string#3\endcsname
5464         {\let#2#3%
5465         \let#1#4}%
5466 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5467         \expandafter@gobbletwo\string#4\endcsname
5468         {\let#2#4%
5469         \let#1#3}}
5470 \newcommand*\SetBoolean}[2]{%
5471 \lowercase{\def\@tempa{#2}}%
5472 \@ifundefined{@tempswa\@tempa}%
5473   {\PackageError{biditools}%
5474    {You can only set a boolean to `true' or `false'}\@ehc}%
5475   {\@ifundefined{#1\@tempa}%
5476    {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5477    {\csname#1\@tempa\endcsname}}}
5478 \newcommand*\GlobalSetBoolean}[2]{%
5479 \lowercase{\def\@tempa{#2}}%
5480 \@ifundefined{@tempswa\@tempa}%
5481   {\PackageError{biditools}%
5482    {You can only set a boolean to `true' or `false'}\@ehc}%
5483   {\@ifundefined{#1\@tempa}%
5484    {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5485    {\global\csname#1\@tempa\endcsname}}}
5486 \newcommand*\SetatBoolean}[2]{%
5487 \lowercase{\def\@tempa{#2}}%
5488 \@ifundefined{@tempswa\@tempa}%
5489   {\PackageError{biditools}%
5490    {You can only set a boolean to `true' or `false'}\@ehc}%
5491   {\@ifundefined{@#1\@tempa}%
5492    {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5493    {\csname @#1\@tempa\endcsname}}}
5494 \newcommand*\GlobalSetatBoolean}[2]{%
5495 \lowercase{\def\@tempa{#2}}%
5496 \@ifundefined{@tempswa\@tempa}%
5497   {\PackageError{biditools}%
5498    {You can only set a boolean to `true' or `false'}\@ehc}%
5499   {\@ifundefined{@#1\@tempa}%
5500    {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5501    {\global\csname @#1\@tempa\endcsname}}}
5502 \def\@bidi@removefromreset#1#2{%
5503 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5504 \def\@elt##1{%
5505   \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5506   \else
5507     \noexpand\@elt{##1}%
5508   \fi}%
5509 \expandafter\xdef\csname c1@#2\endcsname{%
5510   \csname c1@#2\endcsname}}}
5511 \newcommand*\ifRtoL{%
5512 \ifRTL
5513   \expandafter\@firstoftwo
5514 \else
5515   \expandafter\@secondoftwo

```



```

5516 \fi}
5517 \newcommand*\ifLtoR}{%
5518 \if@RTL
5519 \expandafter\@secondoftwo
5520 \else
5521 \expandafter\@firstoftwo
5522 \fi}
5523 \newcommand*\ifRtoLtable}{%
5524 \if@RTLtab
5525 \expandafter\@firstoftwo
5526 \else
5527 \expandafter\@secondoftwo
5528 \fi}
5529 \newcommand*\ifLtoRtable}{%
5530 \if@RTLtab
5531 \expandafter\@secondoftwo
5532 \else
5533 \expandafter\@firstoftwo
5534 \fi}
5535 \newcommand*\ifRtoLhboxconstruct}{%
5536 \if@hboxRconstruct
5537 \expandafter\@firstoftwo
5538 \else
5539 \expandafter\@secondoftwo
5540 \fi}
5541 \newcommand*\ifLtoRhboxconstruct}{%
5542 \if@hboxRconstruct
5543 \expandafter\@secondoftwo
5544 \else
5545 \expandafter\@firstoftwo
5546 \fi}
5547 \newcommand*\iflatin}{%
5548 \if@nonlatin
5549 \expandafter\@secondoftwo
5550 \else
5551 \expandafter\@firstoftwo
5552 \fi}
5553 \newcommand*\ifnonlatin}{%
5554 \if@nonlatin
5555 \expandafter\@firstoftwo
5556 \else
5557 \expandafter\@secondoftwo
5558 \fi}
5559
5560 \newcommand*\bidi@convert@dimen@t@unit}[2]{%
5561 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5562
5563 \newcommand*\bidi@convert@dimen@t@pt}[1]{%
5564 \dimexpr #1*65536/\dimexpr 1pt\relax}
5565
5566 \newcommand*\if@bidi@csdef}[1]{%
5567 \ifcsname#1\endcsname
5568 \expandafter\@firstoftwo
5569 \else

```



```

5570     \expandafter\@secondoftwo
5571 \fi}
5572 \newcommand*\if@bidi@csundef}[1]{%
5573   \ifcsname#1\endcsname
5574     \expandafter\ifx\csname#1\endcsname\relax
5575       \expandafter\expandafter
5576       \expandafter\@firstoftwo
5577     \else
5578       \expandafter\expandafter
5579       \expandafter\@secondoftwo
5580   \fi
5581 \else
5582   \expandafter\@firstoftwo
5583 \fi}
5584 \newcommand{\if@bidi@def}[1]{%
5585   \ifdefined#1%
5586     \expandafter\@firstoftwo
5587   \else
5588     \expandafter\@secondoftwo
5589   \fi}
5590 \newcommand{\if@bidi@undef}[1]{%
5591   \ifdefined#1%
5592     \ifx#1\relax
5593       \expandafter\expandafter
5594       \expandafter\@firstoftwo
5595     \else
5596       \expandafter\expandafter
5597       \expandafter\@secondoftwo
5598   \fi
5599 \else
5600   \expandafter\@firstoftwo
5601 \fi}
5602 \newcommand{\if@bidi@blank}[1]{% from url.sty
5603   \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5604 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5605 \newcommand{\bidi@notblank}[1]{%
5606   \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5607 \newcommand{\if@bidi@defmacro}{%
5608 \long\edef\if@bidi@defmacro#1{%
5609   \noexpand\expandafter\noexpand\bidi@ifdefmacro
5610   \noexpand\meaning#1\detokenize{macro}:&}
5611 \edef\bidi@ifdefmacro{%
5612   \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5613 \bidi@ifdefmacro{\bidi@notblank{#2}}
5614 \newcommand*\if@bidi@csmacro}[1]{%
5615   \if@bidi@csdef{#1}
5616     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5617     {\@secondoftwo}}
5618 \newcommand{\if@bidi@defprimitive}[1]{%
5619   \ifprimitive#1%
5620     \expandafter\@firstoftwo
5621   \else
5622     \expandafter\@secondoftwo
5623   \fi}

```





```

5624 \newcommand{\if@bidi@csprimitive}[1]{%
5625 \begingroup\expandafter\expandafter\expandafter\endgroup%
5626 \expandafter\ifprimitive\csname#1\endcsname%
5627 \expandafter\@firstoftwo
5628 \else
5629 \expandafter\@secondoftwo
5630 \fi}
5631 \newcommand*{\bidi@csdefcs}[2]{%
5632 \expandafter\@ifdefinable \csname#1\endcsname{%
5633 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5634 \newcommand*{\bidi@csletcs}[2]{%
5635 \expandafter\@ifdefinable \csname#1\endcsname{%
5636 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
5637 \newcommand*{\bidi@cslet}[2]{%
5638 \expandafter\@ifdefinable \csname#1\endcsname{%
5639 \expandafter\let\csname#1\endcsname#2}}
5640 \newcommand{\bidi@namelongdef}[1]{%
5641 \long\expandafter\def\csname #1\endcsname}
5642 \newcommand{\bidi@namelonggdef}[1]{%
5643 \long\expandafter\gdef\csname #1\endcsname}
5644 \newcommand{\bidi@namelongedef}[1]{%
5645 \long\expandafter\edef\csname #1\endcsname}
5646 \newcommand{\bidi@namelongxdef}[1]{%
5647 \long\expandafter\xdef\csname #1\endcsname}
5648 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5649 \def\bidi@ensure@new@command#1{%
5650 \begingroup \escapechar@mOne\xdef\@gtempa{\string#1}\endgroup
5651 \expandafter\if@bidi@csundef\@gtempa
5652 {\new@command#1}{\relax%
5653 \let\@ifdefinable\rc@ifdefinable%
5654 \new@command#1}}
5655 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5656
5657 \protected\def\bidi@error{\PackageError{bidi}}
5658 \protected\def\bidi@warning{\PackageWarning{bidi}}
5659 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5660 \protected\def\bidi@info{\PackageInfo{bidi}}
5661
5662 \def\bidi@pos#1#2#3#4{\bidi@namegdef{bidi@#1pos@#2@#3}{#4}}
5663
5664 \newcount\bidi@poscount
5665
5666 \newcommand*{\WriteStartXPostoaux}{%
5667 \global\advance\bidi@poscount\@ne
5668 \edef\@tempa{%
5669 \write\auxout{%
5670 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5671 }%
5672 }%
5673 \ifvmode
5674 \leavevmode
5675 \fi
5676 \if@RTL
5677 \if@filesw

```



```

5678   \@tempa
5679   \fi
5680   \pdfsavepos
5681   \else
5682   \pdfsavepos
5683   \if@filesw
5684   \@tempa
5685   \fi
5686   \fi
5687   \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5688       \PackageWarningNoLine{biditools}{%
5689           The start x position `\

```



```

5732   \@tempa
5733   \fi
5734   \pdfsavepos
5735   \else
5736   \pdfsavepos
5737   \if@filesw
5738   \@tempa
5739   \fi
5740   \fi
5741   \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5742       \PackageWarningNoLine{biditools}{%
5743           The start y position `\

```



```

5786   \fi
5787 \if@RTL
5788   \if@filesw
5789     \@tempa
5790   \fi
5791 \pdfsavepos
5792   \else
5793 \pdfsavepos
5794 \if@filesw
5795   \@tempa
5796 \fi
5797 \fi
5798 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5799   \PackageWarningNoLine{biditools}{%
5800     The start x position `\

```



```

5840         The end y position '\number\bidi@poscount' is not known yet.
5841         Rerun to get this y position%
5842     }%
5843 }-%
5844 }
5845
5846 \newcommand*{\currentposxwidth}{-%
5847   \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5848   {-%
5849     \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5850     \endcsname < \csname  bidi@xpos@@end@\number\bidi@poscount
5851     \endcsname
5852     \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5853     \endcsname sp - \csname  bidi@xpos@@start@\number\bidi@poscount
5854     \endcsname sp\relax
5855   \else
5856     \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5857     \endcsname sp - \csname  bidi@xpos@@end@\number\bidi@poscount
5858     \endcsname sp\relax
5859   \fi
5860   }%
5861 }
5862
5863 \newcommand*{\currentposyheight}{-%
5864   \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5865   {-%
5866     \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5867     \endcsname sp - \csname  bidi@ypos@@end@\number\bidi@poscount
5868     \endcsname sp\relax
5869   }%
5870 }
5871
5872
5873
5874 \newcommand*{\setbaselineskip}[1]{-%
5875   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5876   \selectfont
5877 }
5878
5879
5880 \newcommand*{\bidi@newrobustcmd}{-}
5881 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5882
5883 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5884
5885 \def\bidi@newcommand#1[#2]{-%
5886   \@ifnextchar[%]
5887   {\bidi@xargdef#1[#2]}
5888   {\ifx\l@ngrel@x\relax
5889     \let\l@ngrel@x\protected
5890   \else
5891     \protected\def\l@ngrel@x{\protected\long}%
5892   \fi
5893   \@argdef#1[#2]}}

```



```

5894
5895 \long\def\bidi@xargdef#1[#2][#3]#4{%
5896   \@ifdefinable#1{%
5897     \expandafter\protected
5898     \expandafter\def
5899     \expandafter#1%
5900     \expandafter{%
5901       \expandafter\@testopt
5902       \csname\string#1\endcsname{#3}}%
5903     \expandafter\@yargdef\csname\string#1\endcsname\tw#{2}{#4}}
5904
5905 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5906
5907 \def\bidi@renew@command#1{%
5908   \if@bidi@undef{#1}
5909     {\bidi@error{\string#1 undefined}\@ehc}
5910     {}%
5911   \let\@ifdefinable\@rc@ifdefinable
5912   \bidi@new@command#1}
5913
5914
5915
5916 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5917
5918 \def\bidi@provide@command#1{%
5919   \if@bidi@undef{#1}
5920     {\def\reserved@a{\bidi@new@command#1}}
5921     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5922   \reserved@a}
5923
5924 \newcommand*{\bidi@csuse}[1]{%
5925   \ifcsname#1\endcsname
5926     \csname#1\expandafter\endcsname
5927   \fi}
5928
5929 \newcommand{\bidi@expandonce}[1]{%
5930   \unexpanded\expandafter{#1}}
5931
5932 \def\bidi@protected{%
5933   \let\@@protect\protect
5934   \let\protect\@unexpandable@protect
5935   \afterassignment\restore@protect}
5936
5937 \bidi@newrobustcmd{\bidi@appto}[2]{%
5938   \if@bidi@undef{#1}
5939     {\edef#1{\unexpanded{#2}}}
5940     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5941 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5942   \if@bidi@undef{#1}
5943     {\edef#1{#2}}
5944     {\edef#1{\bidi@expandonce#1#2}}}}
5945 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5946   \if@bidi@undef{#1}
5947     {\xdef#1{\unexpanded{#2}}}

```



```

5948     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5949 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5950   \if@bidi@undef{#1}
5951     {\xdef#1{#2}}
5952     {\xdef#1{\bidi@expandonce#1#2}}}
5953
5954 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5955 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5956
5957
5958
5959 \bidi@newrobustcmd{\bidi@preto}[2]{%
5960   \if@bidi@undef{#1}
5961     {\edef#1{\unexpanded{#2}}}
5962     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5963 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5964   \if@bidi@undef{#1}
5965     {\edef#1{#2}}
5966     {\edef#1{#2\bidi@expandonce#1}}}
5967 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5968   \if@bidi@undef{#1}
5969     {\xdef#1{\unexpanded{#2}}}
5970     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5971 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5972   \if@bidi@undef{#1}
5973     {\xdef#1{#2}}
5974     {\xdef#1{#2\bidi@expandonce#1}}}
5975
5976 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5977 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5978
5979
5980
5981 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5982 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5983 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5984 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5985 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5986 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5987
5988
5989
5990 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5991 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5992 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5993 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5994 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5995 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5996
5997
5998
5999 \bidi@newrobustcmd{\if@bidi@patchable}{%
6000   \bidi@dbg@trce\if@bidi@patchable
6001   \begingroup

```



```

6002 \@makeother\#%
6003 \@ifstar\bidiffpatchable@i\bidiffpatchable}
6004
6005 \long\def\bidiffpatchable#1#2{%
6006 \endgroup
6007 \bidiffdbg@init#1%
6008 \iffbidiff@undef{#1}
6009   {\bidiffdbg@fail{def}\@secondoftwo}
6010   {\bidiffdbg@info{def}%
6011   \iffbidiff@defmacro{#1}
6012     {\bidiffdbg@info{mac}%
6013     \bidiffifscanable{#1}
6014     {\bidiffifhashcheck{#2}
6015       {\bidiffdbg@info{tok}%
6016         \bidiffifpattern#1{#2}
6017         {\bidiffdbg@info{pat}%
6018           \bidiffdbg@info{pos}\@firstoftwo}
6019           {\bidiffdbg@fail{pat}\@secondoftwo}}}
6020         {\bidiffdbg@fail{hsh}\@secondoftwo}}
6021         {\bidiffdbg@fail{tok}\@secondoftwo}}
6022         {\bidiffdbg@fail{mac}\@secondoftwo}}}}
6023
6024 \long\def\bidiffpatchable@i#1{%
6025 \endgroup
6026 \bidiffdbg@init#1%
6027 \iffbidiff@undef{#1}
6028   {\bidiffdbg@fail{def}\@secondoftwo}
6029   {\bidiffdbg@info{def}%
6030   \iffbidiff@defmacro{#1}
6031     {\bidiffdbg@info{mac}%
6032     \iffbidiff@defparam{#1}
6033       {\bidiffdbg@info{prm}%
6034         \bidiffifscanable{#1}
6035         {\bidiffdbg@info{tok}%
6036           \bidiffdbg@info{pos}\@firstoftwo}
6037           {\bidiffdbg@fail{tok}\@secondoftwo}}}
6038       {\bidiffdbg@info{prl}%
6039         \iffbidiff@defprotected{#1}
6040         {\bidiffdbg@info{pro}}
6041         {}%
6042         \bidiffdbg@info{pos}\@firstoftwo}}
6043       {\bidiffdbg@fail{mac}\@secondoftwo}}}}
6044
6045 \bidiffnewrobustcmd*{\bidiffpatchcmd}{%
6046 \bidiffdbg@trce\bidiffpatchcmd
6047 \begingroup
6048 \@makeother\#%
6049 \bidiff@@patchcmd}
6050
6051 \newcommand{\bidiff@patchcmd}[4][#####1]{%
6052 \bidiffifpatchable#2{#3}
6053   {\bidiffdbg@succ{ret}%
6054   \begingroup
6055   \edef\bidiff@resrvda{%

```





```

6056     \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6057         #1\def\string\bidiresrvda\space####2{\noexpand\bidiresrvdb####3&}}%
6058     \def\noexpand\bidiresrvdb####1\detokenize{#3}####2&{%
6059         ####1\detokenize{#4}####2}%
6060     \edef\noexpand\bidiresrvda{%
6061         \noexpand\bidiresrvda\meaning#2&}}%
6062     \bidiresrvda
6063     \bidipatchcmd@scantoks\bidiresrvda
6064     \let#2\bidiresrvda
6065     \bidiumdef\bidiresrvda
6066     \@firstoftwo}
6067     {\@secondoftwo}}
6068
6069 \def\bidipatchcmd@scantoks#1{%
6070     \edef\bidiresrvda{\endgroup
6071         \unexpanded{\makeatletter\scantokens}{#1}%
6072         \catcode\number`\@=\the\catcode`\@relax}%
6073     \bidiresrvda}
6074
6075 \protected\def\bidifscanable#1{%
6076     \begingroup
6077     \edef\bidiresrvda{%
6078         \def\noexpand\bidiresrvda####1\detokenize{macro}:####2->####3&{%
6079             ####1\def\string\bidiresrvda####2{####3}}%
6080         \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
6081     \bidiresrvda
6082     \makeatletter
6083     \scantokens\expandafter{\bidiresrvda}%
6084     \expandafter\endgroup\ifx#1\bidiresrvda
6085         \expandafter\@firstoftwo
6086     \else
6087         \expandafter\@secondoftwo
6088     \fi}
6089
6090
6091 \protected\long\def\bidifhashcheck#1{%
6092     \begingroup
6093     \edef\bidiresrvda{\detokenize{#1}}%
6094     \expandafter\endgroup
6095     \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
6096
6097 \edef\bidifhashcheck@i#1&{%
6098     \noexpand\expandafter
6099     \noexpand\bidifhashcheck@ii
6100     \noexpand\strip@prefix#1\string#\string#&}
6101
6102 \edef\bidifhashcheck@ii{%
6103     \def\noexpand\bidifhashcheck@ii##1\string#\string###2&}
6104     \bidifhashcheck@ii{\if@bidi@blank{#2}}
6105
6106
6107 \protected\long\def\bidifpattern#1#2{%
6108     \begingroup
6109     \edef\bidiresrvda{%

```



```

6110 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
6111 \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}%
6112 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6113 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6114 \noexpand\bidi@resrvda}
6115 \bidi@resrvda\@secondoftwo\@firstoftwo}
6116
6117
6118 \newcommand{\if@bidi@defparam}{%
6119 \long\edef\if@bidi@defparam#1{%
6120 \noexpand\expandafter\noexpand\bidi@ifdefparam
6121 \noexpand\meaning#1\detokenize{macro}:->&}
6122 \edef\bidi@ifdefparam{%
6123 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6124 \bidi@ifdefparam{\bidi@notblank{#2}}
6125
6126
6127 \newcommand{\if@bidi@defprotected}{%
6128 \long\edef\if@bidi@defprotected#1{%
6129 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6130 \noexpand\meaning#1\string\protected&}
6131 \edef\bidi@ifdefprotected{%
6132 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6133 \bidi@ifdefprotected{\bidi@notblank{#2}}
6134
6135
6136 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6137 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6138 \expandafter\let\csname #1\endcsname\bidi@undefined
6139 }
6140
6141 \let\bidi@dbg@trce@gobble
6142 \let\bidi@dbg@init@gobble
6143 \let\bidi@dbg@info@gobble
6144 \let\bidi@dbg@succ@gobble
6145 \let\bidi@dbg@fail@gobble
6146
6147
6148
6149 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6150 \bidi@dbg@trce\bidi@apptocmd
6151 \begingroup
6152 \@makeother\#%
6153 \bidi@hooktocmd\bidi@append}
6154
6155
6156
6157 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6158 \bidi@dbg@trce\bidi@pretocmd
6159 \begingroup
6160 \@makeother\#%
6161 \bidi@hooktocmd\bidi@prepend}
6162
6163 \long\def\bidi@hooktocmd#1#2#3{%

```



```

6164 \endgroup
6165 \bidi@dbg@init#2%
6166 \if@bidi@undef{#2}
6167   {\bidi@dbg@fail{def}\@secondoftwo}
6168   {\bidi@dbg@info{def}%
6169   \if@bidi@defmacro{#2}
6170     {\bidi@dbg@info{mac}%
6171     \if@bidi@defparam{#2}
6172       {\bidi@dbg@info{prm}%
6173       \bidi@ifscanable{#2}
6174         {\bidi@ifhashcheck{#3}
6175         {\bidi@dbg@info{tok}%
6176         \bidi@dbg@succ{ret}%
6177         \bidi@hooktocmd@i#1#2{#3}%
6178         \@firstoftwo}
6179         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6180         {\bidi@dbg@fail{tok}\@secondoftwo}}
6181   {\bidi@dbg@info{prl}%
6182   \if@bidi@defprotected{#2}
6183     {\bidi@dbg@info{pro}%
6184     \bidi@dbg@succ{red}%
6185     \protected}
6186     {\bidi@dbg@succ{red}}%
6187   \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6188   \@firstoftwo}}
6189   {\bidi@dbg@fail{mac}\@secondoftwo}}
6190
6191 \long\def\bidi@hooktocmd@i#1#2#3{%
6192   \begingroup
6193   \edef\bidi@resrvda{%
6194     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6195       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}%
6196     \edef\noexpand\bidi@resrvda{%
6197       \noexpand\bidi@resrvda\meaning#2&}}%
6198   \bidi@resrvda
6199   \bidi@patchcmd@scantoks\bidi@resrvda
6200   \let#2\bidi@resrvda
6201   \bidi@undef\bidi@resrvda}
6202
6203 \long\def\bidi@append#1#2{#1#2}
6204 \long\def\bidi@prepend#1#2{#2#1}
6205
6206 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6207 %\newcommand*{\bidi@endpreamblehook}{}
6208
6209 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6210
6211 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6212 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6213
6214 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6215 \newcommand*{\bidi@beforeheaderhook}{}
6216
6217 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}

```



```

6218 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6219
6220 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa
6221 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6222
6223 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6224 \newcommand*{\bidi@beforefooterhook}{}
6225
6226 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6227 \newcommand*{\bidi@afterfooterhook}{}
6228
6229
6230 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho
6231 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6232
6233 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6234 \newcommand*{\bidi@atendoutputpagehook}{}
6235
6236 %\bidi@preto\document{%
6237 % \endgroup
6238 % \let\bidi@AtEndPreamble\@firstofone
6239 % \bidi@endpreamblehook
6240 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6241 % \bidi@undef\bidi@endpreamblehook
6242 % \beginingroup}
6243
6244 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6245 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6246
6247 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6248 %\newcommand*{\bidi@afterendpreamblehook}{}
6249
6250 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6251
6252 %\bidi@appto\document{%
6253 % \let\bidi@AfterEndPreamble\@firstofone
6254 % \bidi@afterendpreamblehook
6255 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6256 % \bidi@undef\bidi@afterendpreamblehook
6257 % \ignorespaces}
6258
6259 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocume
6260 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6261
6262 \bidi@patchcmd\enddocument
6263 {\fi}
6264 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6265 \bidi@afterenddocumentchecklabelsrerunhook
6266 \fi}
6267 {}
6268 {\PackageWarning{biditools}{Patching `string\enddocument' failed}}
6269
6270 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6271

```



```

6272 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6273 \newcommand*{\bidi@afterlastshipouthook}{}
6274
6275 \bidi@patchcmd\enddocument
6276   {\clearpage}
6277   {\clearpage
6278     \let\bidi@AfterLastShipout\@firstofone
6279     \bidi@afterlastshipouthook}
6280   {}
6281   {\let\bidi@clearpage\clearpage
6282     \def\clearpage{%
6283       \bidi@clearpage
6284       \let\bidi@AfterLastShipout\@firstofone
6285       \bidi@afterlastshipouthook}}
6286
6287 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6288 %\newcommand*{\bidi@afterenddocumenthook}{}
6289
6290 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6291
6292 %\bidi@patchcmd\enddocument
6293 %  {\deadcycles}
6294 %  {\let\bidi@AfterEndDocument\@firstofone
6295 %    \bidi@afterenddocumenthook
6296 %    \deadcycles}
6297 %  {}
6298 %  {\let\bidi@@end\@end
6299 %    \def\@end{%
6300 %      \let\bidi@AfterEndDocument\@firstofone
6301 %      \bidi@afterenddocumenthook
6302 %      \bidi@@end}}
6303
6304 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6305   \bidi@csgappto{@bidi@begin@#1@hook}}
6306
6307 % Patch \begin<space> and \end<space> in newer LaTeX releases
6308 % \begin and \end in older ones.
6309 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6310   {\csname #1\endcsname}
6311   {\bidi@csuse{@bidi@begin@#1@hook}}%
6312   \csname #1\endcsname}
6313   {}
6314   {\bidi@warning{%
6315     Patching '\string\begin' failed!\MessageBreak
6316     '\string\bidi@AtBeginEnvironment' will not work@gobble}}
6317
6318
6319
6320 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6321   \bidi@csgappto{@bidi@end@#1@hook}}
6322
6323 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6324   {\csname end#1\endcsname}
6325   {\bidi@csuse{@bidi@end@#1@hook}}%

```



```

6326 \csname end#1\endcsname}
6327 {}
6328 {\bidi@warning{%
6329   Patching '\string\end' failed!\MessageBreak
6330   '\string\bidi@AtEndEnvironment' will not work@gobble}}
6331
6332
6333
6334 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6335   \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6336
6337 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6338   {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6339   {}
6340   {\bidi@warning{%
6341     Patching '\string\begin' failed!\MessageBreak
6342     '\string\bidi@BeforeBeginEnvironment' will not work@gobble}}
6343
6344 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6345   \bidi@csgappto{@bidi@afterend@#1@hook}}
6346
6347 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6348   {\if@ignore}
6349   {\bidi@csuse{@bidi@afterend@#1@hook}%
6350     \if@ignore}
6351   {}
6352   {\bidi@warning{%
6353     Patching '\string\end' failed!\MessageBreak
6354     '\string\bidi@AfterEndEnvironment' will not work@gobble}}
6355
6356 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6357 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6358 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6359 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6360
6361 % From David Carlisle:
6362 % The \stpelt redefinition below belongs to Heiko Oberdiek
6363 % See also https://github.com/ho-tex/oberdiek/issues/26
6364
6365 \let\bidi@stepcounter\stepcounter
6366 \let\bidi@stpelt\stpelt
6367
6368 \def\bidi@stpelt#1{%
6369   \ifcsname bidi@reset@#1@perpage\endcsname
6370     \begingroup
6371       \let\stepcounter\bidi@stepcounter
6372       \@bidi@stpelt{#1}%
6373     \endgroup
6374     \expandafter@gobbletwo
6375   \fi
6376   \@bidi@stpelt{#1}%
6377 }
6378
6379 \bidi@pretocmd\stepcounter

```



```

6380 {%
6381   \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6382     \csname bidi@stepcounterhook@@#1\endcsname
6383   }%
6384 }{-}%
6385 {\PackageWarning{biditytools}{Patching `string\stepcounter' failed}}
6386
6387 \chardef\bidi@backslash`\\
6388 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6389
6390 % anonymous control sequences
6391 \newcount\bidi@tempcountb
6392 \newtoks\bidi@temptoksa
6393 \newtoks\bidi@temptoksb
6394
6395 % Catcode (re)storing
6396 %
6397 \def\bidi@storecatcode#1%
6398   {\escapechar\m@ne
6399   \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6400     {\catcode\string#1=
6401       \the\catcode\expandafter\string#1}%
6402   \catcode\expandafter\string#1=12\relax
6403   \escapechar`\\relax}
6404 \def\bidi@restorecatcode#1%
6405   {\escapechar\m@ne
6406   \csname bidi@restorecatcode\string#1\endcsname
6407   \escapechar`\\relax}
6408
6409 % Construct a control sequence inside \edef
6410 %
6411 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6412
6413 % Construct a control sequence out of #2, and give it to #1
6414 %
6415 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6416
6417 % Pick an escapecharacter
6418 % this presumes that its argument is a character.
6419 %
6420 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6421
6422 % Equality of strings.
6423 % the fast approach: does not work in expansion-only environment.
6424 %
6425 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6426   \ifx\bidi@eqs@a\bidi@eqs@b}
6427
6428 % Test by expansion only
6429 %
6430 \def\bidi@EqualStringX#1#2{00\fi
6431   \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6432 \def\@bidi@EqualStringX#1#2#3#4{\ifx#1#3%
6433   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2#4\fi

```



```

6434     \else false\fi}
6435 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6436
6437 % Lexicographic ordering
6438 % note the use of \def
6439 % also note the characters 0,127,255 that are used,
6440 % these are not supposed to appear in the strings
6441 %
6442 {\catcode0=12 \catcode255=12 \catcode127=12
6443 \gdef\bidistringbeforeNC#1#2{0\fi
6444 \bidicharsbefore#1^^@^^?#2^^ff^^?}
6445 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6446 \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6447 \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6448     \else\ifnum\lccode`#1<\lccode`#3
6449         \def\bidinext{\csname iftrue\endcsname}%
6450     \else\ifnum\lccode`#1>\lccode`#3
6451         \def\bidinext{\csname iffalse\endcsname}%
6452     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6453 \fi \fi \fi \fi
6454 \bidinext}
6455 \gdef\bidistringbefore#1#2{0\fi
6456 \bidicharsbefore#1^^@^^?#2^^ff^^?}
6457 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6458 \ifnum`#1<`#3
6459     \def\bidinext{\csname iftrue\endcsname}%
6460 \else\ifnum`#1>`#3
6461     \def\bidinext{\csname iffalse\endcsname}%
6462 \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6463 \fi\fi
6464 \bidinext}
6465 }
6466
6467 % Null argument test
6468 %
6469 \def\bidiepty{}
6470 \def\bidiepty#1{0\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidiepty}
6471 \def\bidieptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidiepty}
6472 %\def\bidiepty#1{\def\bidics@a{#1}\ifx\bidics@a\bidiepty}
6473 \def\bidieptyList#1{0\fi\def\bidics@a{#1}\ifx\cs@a\bidiepty}
6474
6475 % Next character test
6476 %
6477 \def\bidinxtchar#1#2#3{0\fi
6478     \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6479     \futurelet\bidinxt@c\bidinxtc}
6480 \def\bidieptyifnxtchar#1#2#3{%
6481     \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6482     \futurelet\bidinxt@c\bidinxtc}
6483 \def\bidieptyifnxtc{\ifx\bidinxt@ch\bidinxt@c \expandafter\bidinxt@a
6484     \else \expandafter\bidinxt@b \fi}
6485
6486 % Test for defined-ness of string as control sequence.
6487 % works inside \edef

```





```

6488 %
6489 \def\ bidi@undefinedcs#1{0\fi\ bidi@csarg\ ifx{#1}\ relax}
6490
6491 % Define uniquely defined dummy macros,
6492 % usually to serve as bumper blocks at the end of a list
6493 %
6494 \newcount\ bidi@dummies
6495 \def\ DefNewDummy#1{
6496   \if\ bidi@undefinedcs{#1}\ bidi@csarg\ edef{#1}{\ bidi@dum\ the\ bidi@dummies}
6497   \advance\ bidi@dummies\@ne
6498   \else
6499     \bidi@error{Attempt at second definition of `#1'}
6500   \fi}
6501
6502 % string case statement
6503 % use: \bidi@switch \ iftest{...} in:
6504 %   item1 action1
6505 %   ...
6506 %   itemn actionn
6507 %   default defaultaction [optional]
6508 %   \endbidi@switch
6509 % inspired by Jonathan Fine: Some Basic Control Macros
6510 % Tugboat 12 #4
6511 %
6512 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{\bidi@default}
6513 \def\ bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6514 \def\ bidi@switch #1#2#3{\@bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6515 #1{#2}\ bidi@switch@exit #3 \@bidi@fi
6516 \bidi@switch {#1}
6517 }
6518 % this version puts the test object in {}
6519 \def\ bidi@oswitch #1 in: #2 #3; {\@bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6520 #1{#2}\ bidi@switch@exit #3 \@bidi@fi
6521 \bidi@switch #1 in:
6522 }
6523 % this version assumes that the test object is just one character
6524 \def\ bidi@cswitch #1 in: #2 #3; {\@bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6525 #1#2\ bidi@switch@exit #3 \@bidi@fi
6526 \bidi@cswitch #1 in:
6527 }
6528 % this version assumes that the test object can have an optional space
6529 \def\ bidi@bswitch #1 in: #2 #3; {\@bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6530 #1#2 \bidi@switch@exit #3 \@bidi@fi
6531 \bidi@bswitch #1 in:
6532 }
6533 % this version can cope with significant spaces at the start of #3;
6534 % #2 is macro argument
6535 \def\ bidi@mswitch #1 in: #2:#3; {\@bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6536 #1{#2}\ bidi@switch@exit #3 \@bidi@fi
6537 \bidi@mswitch #1 in:
6538 }
6539 % idem; #2 does not have to be enclosed in braces
6540 \def\ bidi@fswitch #1 in: #2:#3; {\@bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6541 #1#2 \bidi@switch@exit #3 \@bidi@fi

```



```

6542 \bidi@fswitch #1 in:
6543 }
6544
6545 % Routines for taking the value of a string:
6546 % if the string is defined as control sequence
6547 % take the value of that, otherwise take the string itself
6548
6549 % String or value of control sequence
6550 %
6551 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6552
6553 % String or control sequence
6554 %
6555 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6556
6557 % String or \noexpand-ed control sequence;
6558 % for use in \edef
6559 %
6560 \newif\ifbidi@in@label
6561 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6562     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6563 \newtoks\bidi@are@these@correct
6564 \def\bidi@t@w@w#1{%
6565     \if\bidi@undefinedcs{#1}#1%
6566     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6567     \else
6568     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6569
6570 % List Manipulation .....
6571 % this assumes that #1 is a list of tokens, #2 is the name of a list
6572 %
6573 % Names of lists (and of items to pop into) are given as strings;
6574 % not as control sequences.
6575 %
6576 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6577 % basic append/prepend macro
6578 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6579 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6580 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6581 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6582 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6583 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6584 % variations:
6585 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6586 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6587 \def\bidi@append@list@to@list#1#2{%
6588 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6589 \def\bidi@prepend@list@to@list#1#2{%
6590 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6591 \def\bidi@append@cslist@to@cslist#1#2{%
6592 \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6593 \def\bidi@prepend@cslist@to@cslist#1#2{%
6594 \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6595 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}

```



```

6596 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}\expandafter{\the#2}}
6597
6598 \let\bidibillbeunhskip\unhskip
6599
6600 % A few list macros for the user
6601 \def\NewTokenList:#1 {\@bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6602 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6603 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6604 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6605 \def\TheTokenList:#1 {\let\bidibillbeunhskip\bidibillbeunhskip \let\bidibillbeunhskip\@empty
6606   \if\bidibillbeunhskip{#1}\bidibillbeunhskip{Token List <#1> undefined}
6607   \else\bidibillbeunhskip{\the#1}\fi
6608   \let\bidibillbeunhskip\bidibillbeunhskip}
6609
6610 \def\bididel@tok@from@list#1#2{\begingroup
6611   \long\def\bidics@liste##1#2##2\biditok@SM
6612     {\biditoks@lista{##1}\biditoks@listb{##2}}%
6613     \edef\bidics@listb{\global\bidicsname{#1}=
6614       {\the\biditoks@lista\the\biditoks@listb}}%
6615     \bidics@listb}%
6616     \edef\bidics@lista{\noexpand\bidics@liste}\expandafter\the\csname#1\endcsname\noexpand
6617     \bidics@listb \endgroup}
6618 \def\bidin@front@of@list#1{\@bidicsarg{\let\expandafter\bidics@lista}{#1}%
6619   \bidin@front@of@cslist\bidics@lista}
6620 \long\def\bidin@front@of@cslist#1#2{\begingroup\biditoks@lista={#2}%
6621   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list
6622   \endgroup}
6623 \long\def\bidilocalin@front@of@list#1#2{\biditoks@lista={#2}%
6624   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandaf
6625     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafte
6626     \expandafter\the\csname#1\endcsname}%
6627   }
6628 \def\bidiset@list#1{\@bidicsarg{\let\expandafter\bidics@lista}{#1}%
6629   \bidiset@cslist\bidics@lista}
6630 \long\def\bidiset@cslist#1#2{\begingroup\biditoks@lista={#2}%
6631   \global#1=\expandafter{\the\biditoks@lista}\endgroup}
6632
6633 %%% Stack macros
6634 %
6635 % push in terms of prepending of lists
6636 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@cslist#1\expandafter{\expandafter\bidipush@cs@onto@cs#1}}
6637 \def\bidipush@onto#1{\@bidicsarg\bidipush@onto@cs{#1}}
6638 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@cslist#1}{\{#2}}
6639 \def\bidilocalpush@onto#1#2{\let\bidilocalpush@onto@cs#1#2=\relax
6640   \bidilocalin@front@of@list{#1}{\{#2}}
6641 % pop via auxiliary macro: #1 is result, #2 is stack
6642 % two cs arguments
6643 \def\bidipop@cs@into#1#2{\edef\bidics@e
6644   {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6645 % two string arguments
6646 \def\bidipop@into#1#2{\edef\bidics@e
6647   {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bidipop}
6648 \long\def\@bidipopinto#1#2\#3#4\@bidipop{#1}{#3}{#2}{#4}}
6649 \def\bidicopy@stacktop#1#2{%

```



```

6650 \edef\bidics@e{\noexpand\@bidi@copy@stacktop
6651 {#1}\bidicsarg\the{#2}\noexpand\@bidi@pop}%
6652 \bidics@e}
6653 \def\@bidi@copy@stacktop#1\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6654 \newcount\bidistack@length \newtoks\bidie@empty@stack \bidie@empty@stack{\{\}}
6655 \def\bidie@length@of@stack#1{\bidicsarg\bidie@length@of@csstack{#1}}
6656 \def\bidie@length@of@csstack#1{\def\##1{\advance\bidistack@length\@ne}%
6657 \bidistack@length\@m@ne \the#1}
6658 % turn a stack upside down
6659 \def\bidie@invert@csstack#1{\bidie@length@of@csstack{#1}%
6660 \bidie@tempcountb\z@ \bidie@temptoksa\bidie@empty@stack
6661 \loop\ifnum\bidie@tempcountb<\bidistack@length
6662 \bidie@pop@cs@into\bidie@temptoksb#1\advance\bidistack@length\@m@ne
6663 \bidie@push@cs@onto@cs\bidie@temptoksa\bidie@temptoksb
6664 % \bidie@append@csl@list@to@csl@list\bidie@temptoksb\bidie@temptoksa% append a to b
6665 % \bidie@temptoksa\bidie@temptoksb
6666 \repeat% copy b to a
6667 #1\bidie@temptoksa \bidie@temptoksa\bidie@empty@toks}
6668 % invert a stack into a list
6669 \def\bidie@x@stack@to@list#1{\bidie@length@of@stack{#1}%
6670 \bidie@tempcountb\z@ \bidie@temptoksa\bidie@empty@toks
6671 \loop\ifnum\bidie@tempcountb<\bidistack@length
6672 \bidie@pop@into{\bidie@temptoksb}{#1}\advance\bidistack@length\@m@ne
6673 \bidie@append@list@to@list{\bidie@temptoksb}{\bidie@temptoksa}\repeat
6674 \csname#1\endcsname\bidie@temptoksa \bidie@temptoksa\bidie@empty@toks}
6675
6676
6677 % General loop macro:
6678 % \looprepeat
6679 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6680 % \untilcondition{<cond>} \whilecondition{<cond>}
6681 % \doloopbody { <loop body> }
6682 % where all control sequences in between \looprepeat and \doloopbody are optional.
6683 %
6684 % var: characters to form a control sequence;
6685 % after \forvariable{index} you can access the loop counter as \index.
6686 % This is a count register; to print it use \number\index.
6687 % start,step,end: integers with obvious relations to the loop counter;
6688 % start and step have a default value of 1
6689 % cond: (sequence of commands ending in) any TeX \if... test.
6690 %
6691 % Count down instead of up with \downtovalue; the increment given in \bystep
6692 % is always positive, and is added or subtracted accordingly.
6693 %
6694 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6695 % at the beginning of the loop body.
6696 %
6697 % Exit from middle of loop: \breaklooprepeat
6698 % use this at any place in the loop; in case of a conditional use
6699 % \ifsomething ... \expandafter \breaklooprepeat \fi
6700 %
6701 % Note that the line ends do not cause spaces in the output.
6702 %
6703 % Technical details:

```



```

6704 % The loop body is not executed in a group: the braces are those
6705 % of a token list.
6706 % The `forvariable' variable is \let to a \count register.
6707
6708
6709
6710 % Auxiliary stuff
6711 \def\ bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6712 \def\ bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\ bidi@looprepeat@depth\endcsname}
6713 \def\ bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\ bidi@looprepea
6714
6715 \newcount\ bidi@looprepeat@depth
6716 \let\endlooprepeat\relax \def\ bidi@csprotect{}
6717 % Trace switches may later be defined by PAC_utils
6718 \let\ bidi@looprepeat@traceinit\relax \let\ bidi@looprepeat@traceexit\relax
6719
6720 % Main repeatloop macro
6721 % - go to next level and allocate unique counter/toks if this is the
6722 % first time we visit this level
6723 % - setup: gather bounds and termination conditions
6724 % - scoop up body in token list; after the assignment define and
6725 % execute body
6726 \def\looprepeat#1\do loopbody{\ bidi@looprepeat@traceinit % exit in \breakrepeatloop
6727 \advance\ bidi@looprepeat@depth@one\relax
6728 \ bidi@looprepeat@csargromannumeral\ ifx{ \ bidi@looprepeat@count}\relax
6729 \ bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{ \ bidi@looprepe
6730 \ bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{ \ bidi@looprepea
6731 \ bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{ \ bidi@looprepea
6732 \ bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{ \ bidi@looprepea
6733 \fi \ bidi@looprepeat@zero \def\ bidi@looprepeat@sign{}\def\ bidi@looprepeat@comp{>}\ bidi@loo
6734 \edef\ bidi@looprepeat@tmp
6735 {\def\ bidi@looprepeat@csargromannumeral\noexpand{ \ bidi@looprepeat@looprepeat}{ \ bidi@loop
6736 \afterassignment\ bidi@looprepeat@dxbody\ bidi@looprepeat@csromannumeral{ \ bidi@looprepeat@tok
6737
6738 % Define and execute loop body
6739 % This is done with an \edef to construct the actual sequence
6740 \def\ bidi@looprepeat@dxbody{\ bidi@looprepeat@csargromannumeral\edef{ \ bidi@looprepeat@body}{%
6741 \ bidi@looprepeat@csargromannumeral\the{ \ bidi@looprepeat@wtest}%
6742 \noexpand\the\ bidi@looprepeat@csargromannumeral\noexpand{ \ bidi@looprepeat@toks}%
6743 \ bidi@looprepeat@csargromannumeral\the{ \ bidi@looprepeat@utest}%
6744 \global\ bidi@looprepeat@csargromannumeral\advance{ \ bidi@looprepeat@count} by \ bidi@loopre
6745 \noexpand\endlooprepeat
6746 \ bidi@looprepeat@csargromannumeral\noexpand{ \ bidi@looprepeat@looprepeat}}%
6747 \ bidi@looprepeat@csromannumeral{ \ bidi@looprepeat@body}\ignorespaces}
6748
6749 % Stop test
6750 %% In order to stop, issue a
6751 % \breaklooprepeat which scoops up the rest of the body and exits
6752 \def\breaklooprepeat#1\endlooprepeat{\ bidi@looprepeat@zero\ bidi@looprepeat@csargromannumeral
6753 \advance\ bidi@looprepeat@depth@m@ne \ bidi@looprepeat@traceexit
6754 }
6755
6756
6757 % Setup

```



```

6758 % gather bounds and termination conditions
6759 \def\ bidi@looprepeat@setup#1{%
6760   \begingroup
6761     \def\ forvariable##1{%
6762       \edef\ bidi@looprepeat@tmp{%
6763         \global\let\ bidi@looprepeat@csarg\noexpand{##1}\ bidi@looprepeat@csromannumeral{\ bidi@
6764         \ bidi@looprepeat@tmp}%
6765       \def\ fromvalue##1{\ \ bidi@looprepeat@csargromannumeral\ global{\ bidi@looprepeat@count}##1\ ig
6766       \def\ tovalue##1{%
6767         \edef\ bidi@looprepeat@tmp{\ global\ \ bidi@looprepeat@csargromannumeral\noexpand{\ bidi@loop
6768         {\ \ bidi@looprepeat@csargromannumeral\ the{\ bidi@looprepeat@wtest}%
6769         \noexpand\ ifnum\ \ bidi@looprepeat@csargromannumeral\noexpand{\ bidi@looprepeat@count}\ \ bi
6770         \noexpand\ expandafter \noexpand\ breaklooprepeat
6771         \noexpand\ fi}\ ignorespaces}%
6772         \ bidi@looprepeat@tmp}%
6773       \def\ downtovalue##1{%
6774         \gdef\ bidi@looprepeat@sign{-}\ gdef\ bidi@looprepeat@comp{<}\ tovalue{##1}\ ignorespaces}%
6775       \def\ bystep##1{\ ifnum##1<0 \ bidi@error{LOOPREPEAT: increment has to be a positive value}
6776         \ bidi@looprepeat@csargromannumeral\ gdef{\ bidi@looprepeat@inc}{-##1}\ else
6777         \ bidi@looprepeat@csargromannumeral\ gdef{\ bidi@looprepeat@inc}{##1}\ fi\ ignoresp
6778       \def\ untilcondition##1{%
6779         \edef\ bidi@looprepeat@tmp{\ global\ \ bidi@looprepeat@csargromannumeral\noexpand{\ bidi@loop
6780         {\noexpand##1\ relax
6781         \noexpand\ expandafter \noexpand\ breaklooprepeat \noexpand\ fi}\ ignorespaces}%
6782         \ bidi@looprepeat@tmp}%
6783       \def\ whilecondition##1{%
6784         \edef\ bidi@looprepeat@tmp{\ global\ \ bidi@looprepeat@csargromannumeral\noexpand{\ bidi@loop
6785         {\noexpand##1\ relax \noexpand\ else
6786         \noexpand\ expandafter \noexpand\ breaklooprepeat \noexpand\ fi}\ ignorespaces}%
6787         \ bidi@looprepeat@tmp}%
6788       \fromvalue{\ @ne}\ bystep{\ @ne}#1%
6789   \endgroup}
6790 \def\ bidi@looprepeat@zero
6791   {\ \ bidi@looprepeat@csromannumeral{\ bidi@looprepeat@toks}{-}\ \ bidi@looprepeat@csromannumeral{\ bi
6792   \ \ bidi@looprepeat@csargromannumeral\ def{\ bidi@looprepeat@body}{-}}
6793
6794 %\tracingmacros2
6795 %\newcount\ tmpcount % used in some examples below
6796
6797 %\looprepeat \forvariable{i}
6798 %   \bystep{2}
6799 %   \doloopbody {%
6800 %     \ifnum\ i=13 \expandafter\ breaklooprepeat \fi
6801 %     \number\ i} %
6802 %}%
6803
6804 %\looprepeat \forvariable{iii}
6805 %   \tovalue{8}
6806 %   \doloopbody {}
6807 %After loop: \number\ iii%
6808
6809 %\looprepeat \forvariable{i}
6810 %   \fromvalue{10}
6811 %   \bystep{2}

```



```

6812 %          \downtovalue{0}
6813 %    \doloopbody {\number\i} }
6814
6815 %\looprepeat \forvariable{x} \whilecondition{\ifnum<x<7}
6816 %    \doloopbody {\number\x} }
6817
6818 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6819
6820 %\looprepeat \forvariable{j}
6821 %          \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6822 %    \doloopbody {\number\j} }
6823
6824 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6825 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6826 %   \doloopbody {(\number\i.\number\j) }
6827 % }
6828
6829 % infinite loop
6830 %\looprepeat \doloopbody {}
6831
6832 \ExplSyntaxOn
6833 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6834 {
6835   \IfBooleanTF { #1 }
6836   {
6837     \@ifclassloaded{ #2 }
6838     { #4 }
6839     {
6840       \hook_gput_code:nnn
6841       { file / #2.\@clsextension / after }
6842       { #3 }
6843       { #4 }
6844     }
6845   }
6846   {
6847     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6848   }
6849 }
6850
6851 \seq_new:N \g__biditytools_input_file_seq
6852
6853 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6854 {
6855   \str_set:Nx \l_tmpa_str { #1 }
6856   \seq_if_in:NxTF \g__biditytools_input_file_seq { \str_use:N \l_tmpa_str }
6857   { \prg_return_true: }
6858   { \prg_return_false: }
6859 }
6860
6861 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6862 {
6863   \@ifclassloaded { #1 }
6864   {
6865     \__bidi_if_loading:nTF { #1.\@clsextension }

```



```

6866         { \prg_return_false: }
6867         { \prg_return_true: }
6868     }
6869     {
6870         \prg_return_false:
6871     }
6872 }
6873
6874 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6875 {
6876     \@ifpackageloaded { #1 }
6877     {
6878         \__bidi_if_loading:nTF { #1.\@pkgextension }
6879         { \prg_return_false: }
6880         { \prg_return_true: }
6881     }
6882     {
6883         \prg_return_false:
6884     }
6885 }
6886
6887 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6888 {
6889     \IfBooleanTF { #1 }
6890     {
6891         \bidi_if_class_loaded:nTF { #2 }
6892         { #4 }
6893         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6894     }
6895     {
6896         \bidi_if_class_loaded:nF
6897         { #2 }
6898         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6899     }
6900 }
6901
6902 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6903 {
6904     \IfBooleanTF { #1 }
6905     {
6906         \@ifpackageloaded{ #2 }
6907         { #4 }
6908         {
6909             \hook_gput_code:nnn
6910             { file / #2.\@pkgextension / after }
6911             { #3 }
6912             { #4 }
6913         }
6914     }
6915     {
6916         \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6917     }
6918 }
6919

```





```

6920 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6921 {
6922   \IfBooleanTF { #1 }
6923   {
6924     \bidi_if_package_loaded:nTF { #2 }
6925     { #4 }
6926     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6927   }
6928   {
6929     \bidi_if_package_loaded:nF
6930     { #2 }
6931     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6932   }
6933 }
6934
6935 \clist_new:N \l__biditools_package_clist
6936 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6937 {
6938   Can-not-prevent-package-`#1'-from-being-loaded,~
6939   since-it-has-been-loaded-already-before-line-\msg_line_number:
6940 }
6941 \clist_new:N \g__biditools_prevent_clist
6942
6943 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6944 {
6945   \clist_set:Nx \l__biditools_package_clist { #3 }
6946   \clist_map_inline:Nn \l__biditools_package_clist
6947   {
6948     \@ifpackageloaded { ##1 }
6949     {
6950       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6951       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6952     }
6953     {
6954       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6955       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6956       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6957       {
6958         \tl_new:c { g__biditools_exclude_package_##1_tl }
6959       }
6960       \IfValueT { #2 }
6961       {
6962         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6963       }
6964       \disable@package@load { ##1 }
6965       { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6966     }
6967   }
6968   \clist_clear:N \l__biditools_package_clist
6969 }
6970
6971 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6972 {
6973   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load

```



```

6974 \clist_gclear:N \g__biditools_prevent_clist
6975 }
6976
6977 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6978 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6979
6980 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6981 {
6982 \clist_set:Nx \l__biditools_package_clist { #2 }
6983 \clist_map_inline:Nn \l__biditools_package_clist
6984 {
6985 \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
6986 {
6987 \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
6988 \reenable@package@load { ##1 }
6989 \IfBooleanT { #1 }
6990 { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
6991 }
6992 }
6993 }
6994
6995 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
6996 {
6997 \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
6998 {
6999 \debug_suspend:
7000 \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7001 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7002 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7003 #2
7004 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7005 \debug_resume:
7006 }
7007 }
7008
7009 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7010 {
7011 \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7012 {
7013 \debug_suspend:
7014 \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7015 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7016 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7017 #2
7018 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7019 \debug_resume:
7020 }
7021 }
7022
7023 \clist_new:N \l__biditools_file_patch_clist
7024
7025 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7026 {
7027 \clist_set:Nx \l__biditools_file_patch_clist { #1 }

```



```

7028 \clist_map_inline:Nn \l__biditools_file_patch_clist
7029 {
7030   \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7031 }
7032 \clist_clear:N \l__biditools_file_patch_clist
7033 }
7034
7035 \clist_new:N \l__biditools_package_patch_clist
7036
7037 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7038 {
7039   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7040   \clist_map_inline:Nn \l__biditools_package_patch_clist
7041   {
7042     \ApplyPatchToPackage { ##1 } [ #2 ]
7043   }
7044   \clist_clear:N \l__biditools_package_patch_clist
7045 }
7046
7047 \clist_new:N \l__biditools_class_patch_clist
7048
7049 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7050 {
7051   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7052   \clist_map_inline:Nn \l__biditools_class_patch_clist
7053   {
7054     \ApplyPatchToClass { ##1 } [ #2 ]
7055   }
7056   \clist_clear:N \l__biditools_class_patch_clist
7057 }
7058
7059 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7060 {
7061   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7062   \clist_map_inline:Nn \l__biditools_class_patch_clist
7063   {
7064     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7065   }
7066   \clist_clear:N \l__biditools_class_patch_clist
7067 }
7068 \ExplSyntaxOff
7069
7070 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7071 \newcommand*{\bidi@UnReplaceInput}
7072 {\undeclare@file@substitution}
7073 \newcommand*{\bidi@ReplacePackage}[2]{%
7074 \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7075 }
7076 \newcommand*{\bidi@UnReplacePackage}[1]{%
7077 \undeclare@file@substitution{#1.\@pkgextension}%
7078 }
7079 \newcommand*{\bidi@ReplaceClass}[2]{%
7080 \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7081 }

```



```

7082 \newcommand*{\bidi@UnReplaceClass}[1]{%
7083   \undeclare@file@substitution{#1.\@clsextension}%
7084 }
7085 \newcommand*{\bidi@BeforeFile}[1]{%
7086   \AddToHook{file/#1/before}%
7087 }
7088 \newcommand*{\bidi@AfterFile}[1]{%
7089   \AddToHook{file/#1/after}%
7090 }
7091 \newcommand*{\bidi@BeforeClass}[1]{%
7092   \bidi@BeforeFile{#1.\@clsextension}%
7093 }
7094 \newcommand*{\bidi@BeforePackage}[1]{%
7095   \bidi@BeforeFile{#1.\@pkgextension}%
7096 }
7097
7098 \long\def\bidi@protected@immediate@write#1#2#3{%
7099   \begingroup
7100     #2%
7101     \let\protect\@unexpandable@protect
7102     \edef\reserved@a{\immediate\write#1{#3}}%
7103     \reserved@a
7104   \endgroup
7105   \if@nobreak\ifvmode\nobreak\fi\fi
7106 }
7107
7108 \def\bidi@patch@AfterPackage#1{%
7109   \@ifpackageloaded{#1}{%
7110     \@firstofone
7111   }{%
7112     \AddToHook{package/#1/after}%
7113   }%
7114 }
7115
7116 \def\bidi@patch@AfterFile#1{%
7117   \IfFileLoadedTF{#1}{%
7118     \@firstofone
7119   }{%
7120     \AddToHook{file/#1/after}%
7121   }%
7122 }
7123
7124 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7125 {
7126   \bidi@patch@AfterFile{#1.#2}{%
7127     \ifnum\catcode`\@=11
7128       \input{#1-xetex-#3.def}%
7129     \else
7130       \bidi@storecatcode\@
7131       \makeatletter
7132       \input{#1-xetex-#3.def}%
7133       \bidi@restorecatcode\@
7134     \fi
7135   }%

```



```

7136 }
7137
7138 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7139 {
7140   \bidi@patch@AfterFile{#1.#3}{#2}%
7141 }
7142
7143 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7144 {
7145   \AddToHook{begindocument/before}{%
7146     \IfPackageLoadedF{#1}{%
7147       \ApplyPatchToFiles{#2}[#3][#4]%
7148     }%
7149 }
7150 }
7151
7152 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7153 {
7154   \AddToHook{begindocument/before}{%
7155     \IfPackageLoadedF{#2}{%
7156       \ifnum\catcode`\@=11
7157         \@ifclassloaded{#1}{%
7158           \input{#1-xetex-#3.def}%
7159         }{}%
7160       \else
7161         \bidi@storecatcode\@
7162         \makeatletter
7163         \@ifclassloaded{#1}{%
7164           \input{#1-xetex-#3.def}%
7165         }{}%
7166         \bidi@restorecatcode\@
7167       \fi
7168     }%
7169 }
7170 }
7171
7172 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7173 {
7174   \AddToHook{begindocument/before}{%
7175     \IfPackageLoadedF{#2}{%
7176       \IfPackageLoadedT{#1}{%
7177         \ifnum\catcode`\@=11
7178           \input{#1-xetex-#3.def}%
7179         \else
7180           \bidi@storecatcode\@
7181           \makeatletter
7182           \input{#1-xetex-#3.def}%
7183           \bidi@restorecatcode\@
7184         \fi
7185       }%
7186     }%
7187 }
7188 }
7189

```



```

7190 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7191 {
7192   \AddToHook{begindocument/before}{%
7193     \ifnum\catcode`\@=11
7194     \ifpackageloaded{#1}{#2}{#3}%
7195     \else
7196     \bidi@storecatcode\@
7197     \makeatletter
7198     \@ifpackageloaded{#1}{#2}{#3}%
7199     \bidi@restorecatcode\@
7200   \fi
7201 }
7202 }
7203
7204 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7205 {
7206   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7207 }
7208
7209 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7210 {
7211   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7212 }
7213
7214 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7215 {
7216   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7217 }
7218
7219 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7220 {
7221   \bidi@patch@AfterPackage{#1}{#2}%
7222 }
7223
7224 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7225 {
7226   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7227 }

```

## 53 File `bidituftefloat.sty`

```

7228 \NeedsTeXFormat{LaTeX2e}
7229 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7230 bidi implementation of tufte float]
7231 \RequirePackage{xifthen}
7232 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7233 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7234 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7235 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7236 \newboolean{@bidituftefloat@reversegeometry}
7237 \setboolean{@bidituftefloat@reversegeometry}{false}
7238 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7239 \newboolean{@bidituftefloat@a4paper}
7240 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}

```



```

7241 \newboolean{@biditytfloat@bfivepaper}
7242 \DeclareOption{b5paper}{\setboolean{@biditytfloat@bfivepaper}{true}}
7243 \newboolean{@biditytfloat@symmetric}
7244 \newboolean{@biditytfloat@twoside}
7245 \DeclareOption{twoside}{%
7246 \@twosidetrue \mparswitchtrue%
7247 \setboolean{@biditytfloat@twoside}{true}%
7248 \setboolean{@biditytfloat@symmetric}{true}%
7249 }
7250 \DeclareOption{oneside}{%
7251 \@twosidefalse \mparswitchfalse%
7252 \setboolean{@biditytfloat@twoside}{false}%
7253 \setboolean{@biditytfloat@symmetric}{false}%
7254 }
7255 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7256 \newboolean{@biditytfloat@debug}
7257 \newcommand*{@biditytfloat@caption@justification}{@biditytfloat@justification@autodete
7258 \ProcessOptions
7259 %% Globally sets the length
7260 \newcommand*{\gsetlength}[2]{%
7261 \setlength{#1}{#2}%
7262 \global#1=#1\relax%
7263 }
7264
7265 %% Set the font sizes and baselines to match biditytfloat's books
7266 \renewcommand\normalsize{%
7267 \setfontsize\normalsize\expt{14}%
7268 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7269 \abovedisplayshortskip \z@ \@plus3\p@
7270 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7271 \belowdisplayskip \abovedisplayskip
7272 \let\@listi\@listI}
7273 \normalbaselineskip=14pt
7274 \normalsize
7275 \renewcommand\footnotesize{%
7276 \setfontsize\footnotesize\viiipt{10}%
7277 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7278 \abovedisplayshortskip \z@ \@plus\p@
7279 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7280 \def\@listi{\leftmargin\leftmargini
7281 \topsep 3\p@ \@plus\p@ \@minus\p@
7282 \parsep 2\p@ \@plus\p@ \@minus\p@
7283 \itemsep \parsep}%
7284 \belowdisplayskip \abovedisplayskip
7285 }
7286 %% Paragraph indentation and separation for marginal text
7287 \newcommand{@biditytfloat@margin@par}{%
7288 \setlength{\RaggedRightParindent}{0.5pc}%
7289 \setlength{\JustifyingParindent}{0.5pc}%
7290 \setlength{\parindent}{0.5pc}%
7291 \setlength{\parskip}{0pt}%
7292 }
7293 \RequirePackage{ragged2e}
7294 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%

```



```

7295 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7296 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7297 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7298 {}
7299 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7300 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7301 {}}%
7302 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7303 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7304 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7305 {}
7306 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7307 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7308 {}}
7309 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7310 {}
7311 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7312 \setlength\marginparpush{10pt}
7313 %% Font for margin items
7314 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7315 \newcommand*{\@biditytfloat@captionfont}{\@biditytfloat@marginfont}
7316 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@captionfont}{#1}}
7317 \newcommand{\@biditytfloat@justification}{\justifying}%
7318 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7319 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7320 \newboolean{@biditytfloat@changepage}
7321 \IfFileExists{changepage.sty}{%
7322 \biditytfloatDebugInfoNL{Found changepage.sty}
7323 \RequirePackage[strict]{changepage}
7324 \setboolean{@biditytfloat@changepage}{true}
7325 }{%
7326 \biditytfloatDebugInfoNL{Found chngpage.sty}
7327 \RequirePackage[strict]{chngpage}
7328 \setboolean{@biditytfloat@changepage}{false}
7329 }
7330 \newboolean{@biditytfloat@odd@page}
7331 \setboolean{@biditytfloat@odd@page}{true}
7332 \newcommand*{\@biditytfloat@checkoddpage}{%
7333 \checkoddpage%
7334 \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7335 \ifoddpage%
7336 \setboolean{@biditytfloat@odd@page}{true}%
7337 \else%
7338 \setboolean{@biditytfloat@odd@page}{false}%
7339 \fi%
7340 }{%
7341 \ifcpoddpage%
7342 \setboolean{@biditytfloat@odd@page}{true}%
7343 \else%
7344 \setboolean{@biditytfloat@odd@page}{false}%
7345 \fi%
7346 }%
7347 }
7348 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head

```





```

7349 \newlength{\@biditytfloat@fullwidth}
7350 \newlength{\@biditytfloat@caption@fill}
7351 \newcommand{\biditytfloatRecalculate}{%
7352   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7353   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7354
7355   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7356   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7357   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7358
7359   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7360   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7361 }
7362 \AtBeginDocument{\biditytfloatRecalculate}
7363 \RequirePackage{optparams}% provides multiple optional arguments for commands
7364 \RequirePackage{placeins}
7365 \newsavebox{\@biditytfloat@margin@floatbox}
7366 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7367   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7368   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7369   \begin{minipage}{\marginparwidth}%
7370     \@biditytfloat@caption@font%
7371     \def\@capttype{#2}%
7372     \hbox{} \vspace*{#1}%
7373     \@biditytfloat@caption@justification%
7374     \@biditytfloat@margin@par%
7375     \noindent%
7376   }
7377   {\end{minipage}%
7378   \end{lrbox}%
7379   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7380 }
7381 \newenvironment{marginfigure}[1][-1.2ex]%
7382   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7383   {\end{@biditytfloat@margin@float}}
7384 \newenvironment{margintable}[1][-1.2ex]%
7385   {\begin{@biditytfloat@margin@float}[#1]{table}}
7386   {\end{@biditytfloat@margin@float}}
7387 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7388
7389 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7390 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7391   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}%
7392     {\def\@biditytfloat@float@debug@info{#1}}%
7393     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7394 }
7395 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7396 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debu
7397 \newboolean{@biditytfloat@float@recto}
7398 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7399 \newcommand{\forceeversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7400 \newsavebox{\@biditytfloat@figure@box}
7401 \newsavebox{\@biditytfloat@caption@box}
7402 \let\@biditytfloat@orig@float\float

```



```

7403 \let\@biditytfloat@orig@endfloat\endfloat
7404 \newlength{\@biditytfloat@caption@vertical@offset}
7405 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7406 \newcommand{\@biditytfloat@stored@shortcaption}{ }
7407 \newcommand{\@biditytfloat@stored@caption}{ }
7408 \newcommand{\@biditytfloat@stored@label}{ }
7409 \long\def\@biditytfloat@caption[#1][#2]#3{%
7410   \ifthenelse{\isempty{#1}}{%
7411     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7412     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7413   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to
7414   \gdef\@biditytfloat@stored@caption{#3}%
7415 }
7416 \newcommand{\@biditytfloat@label}[1]{%
7417   \gdef\@biditytfloat@stored@label{#1}%
7418 }
7419 \newcommand{\@biditytfloat@fps}{ }
7420 \newboolean{\@biditytfloat@float@star}
7421 \newlength{\@biditytfloat@float@contents@width}
7422 \newenvironment{\@biditytfloat@float}[3][htbp]%
7423   {% begin \@biditytfloat@float
7424     % Should this float be full-width or just text-width?
7425     \ifthenelse{\equal{#3}{star}}{%
7426       {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7427       {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7428     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7429     \@biditytfloat@checkoddpage%
7430     \ifthenelse{\boolean{\@biditytfloat@odd@page}}{%
7431       {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}}\@biditytfloat@float@debug{Dete
7432       {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}}\@biditytfloat@float@debug{Det
7433     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7434     \renewcommand{\@biditytfloat@fps}{#1}%
7435     \@biditytfloat@float@debug{Allowed positions: [#1]}%
7436     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7437       {\renewcommand{\floatalignment}{b}}\@biditytfloat@float@debug{Presumed position: [bot
7438       {\renewcommand{\floatalignment}{t}}\@biditytfloat@float@debug{Presumed position: [top
7439     % Capture the contents of the \caption and \label commands to use later
7440     \global\let\@biditytfloat@orig@caption\caption%
7441     \global\let\@biditytfloat@orig@label\label%
7442     \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7443     \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7444     % Handle subfigure package compatibility
7445     \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7446       \bidi@patchcmd{\subfigure}{%
7447         \let\subfig@oldlabel=\label
7448         }{%
7449         \let\subfig@oldlabel=\@biditytfloat@orig@label
7450         }%
7451       {}
7452     }%
7453     \let\subtable=\subfigure
7454   }{}% subfigure package is not loaded
7455   \@biditytfloat@orig@float{#2}[#1]%
7456   \ifthenelse{\boolean{\@biditytfloat@float@star}}{%

```



```

7457     {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7458     {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7459 \begin{lrbox}{\@biditytfloat@figure@box}%
7460   \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7461 }{\% end @biditytfloat@float
7462   \par\hbox{} \vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7463   \end{minipage}%
7464 \end{lrbox}%
7465 % build the caption box
7466 \begin{lrbox}{\@biditytfloat@caption@box}%
7467   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7468     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7469     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7470     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7471   \end{minipage}%
7472 \end{lrbox}%
7473 % now typeset the stored boxes
7474 \begin{fullwidth}%
7475   \begin{minipage}[\floatalignment]{\linewidth}%
7476     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7477       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7478       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7479     \end{minipage}%
7480 \end{fullwidth}%
7481 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7482 % output debug info
7483 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7484   \typeout{^^J^^J----- biditytfloat package float information -----}%
7485   \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7486     {\typeout{Warning: Float unlabeled!}}%
7487     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7488   \typeout{Page number: [\thepage]}%
7489   \def\MessageBreak{^^J}%
7490   \typeout{\@biditytfloat@float@debug@info}%
7491   \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7492     {\typeout{Symmetric: [true]}}%
7493     {\typeout{Symmetric: [false]}}%
7494   \typeout{-----^^J^^J}%
7495 }{}%
7496 % reset commands and temp boxes and captions
7497 \gdef\@biditytfloat@float@debug@info{}%
7498 \let\caption\@biditytfloat@orig@caption%
7499 \let\label\@biditytfloat@orig@label%
7500 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7501 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7502 \gdef\@biditytfloat@stored@shortcaption{}%
7503 \gdef\@biditytfloat@stored@caption{}%
7504 \gdef\@biditytfloat@stored@label{}%
7505 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7506 }
7507 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7508 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto
7509 % asymmetric or page is odd, so caption is on the right
7510 \hbox{}%

```



```

7511     \usebox{#2}%
7512     \hspace{\marginparsep}%
7513     \smash{\raisebox{#1}{\usebox{#3}}}%
7514   }
7515   \@bituftefloat@float@debug{Caption position: [right]}%
7516 }{% symmetric pages and page is even, so caption is on the left
7517   \hbox{%
7518     \smash{\raisebox{#1}{\usebox{#3}}}%
7519     \hspace{\marginparsep}%
7520     \usebox{#2}%
7521   }
7522   \@bituftefloat@float@debug{Caption position: [left]}%
7523 }%
7524 }
7525 \newcommand{\@bituftefloat@float@fullwidth}[3] [Opt]{%
7526 \ifthenelse{\equal{\floatalignment}{b}}{%
7527   {% place caption above figure
7528     \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@overhang}{%
7529       {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debug{Caption position: [right]}%
7530       {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debug{Caption position: [right]}%
7531     }{% place caption below figure
7532       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@overhang}{%
7533         {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debug{Caption position: [left]}%
7534         {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debug{Caption position: [left]}%
7535       }%
7536 }
7537 \renewenvironment{figure}[1] [htbp]%
7538   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
7539   {\end{@bituftefloat@float}}
7540 \renewenvironment{table}[1] [htbp]
7541   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
7542   {\end{@bituftefloat@float}}
7543 \renewenvironment{figure*}[1] [htbp]%
7544   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
7545   {\end{@bituftefloat@float}}
7546 \renewenvironment{table*}[1] [htbp]%
7547   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
7548   {\end{@bituftefloat@float}}
7549 \newenvironment{fullwidth}
7550   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7551     {\ifthenelse{\boolean{@bituftefloat@change page}}{\begin{adjustwidth*}{-}\@bituftefloat@float@overhang}{\begin{adjustwidth*}{-}\@bituftefloat@float@overhang}}%
7552     {\begin{adjustwidth*}{-}\@bituftefloat@float@overhang}}%
7553   }%
7554   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7555     {\ifthenelse{\boolean{@bituftefloat@change page}}{\end{adjustwidth*}}{\end{adjustwidth*}}%
7556     {\end{adjustwidth*}}%
7557   }
7558 \long\def\caption#1[#2]#3{%
7559   \par%
7560   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7561     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7562   \begingroup%
7563     \@parboxrestore%
7564     \if@minipage%

```



```

7565     \@setminipage%
7566     \fi%
7567     \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
7568     \noindent\csname fnum#1\endcsname: \ignorespaces#3\par%
7569     %\@makecaption{\csname fnum#1\endcsname}{\ignorespaces #3}\par
7570 \endgroup}
7571 %%
7572 % Turns newlines into spaces. Based on code from the `titlesec' package.
7573 \DeclareRobustCommand{\@biditufteheading@newlinetospace}{%
7574   \ifstar{\@biditufteheading@newlinetospace@i}{\@biditufteheading@newlinetospace@i}%
7575 }
7576 \def\@biditufteheading@newlinetospace@i{%
7577   \ifdim\lastskip>\z@\else\space\fi
7578   \ignorespaces%
7579 }
7580 \DeclareRobustCommand{\newlinetospace}[1]{%
7581   \let\@biditufteheading@orig@cr\% save the original meaning of \
7582   \def\@biditufteheading@newlinetospace{% turn \ and \* into \space
7583   \let\newline\% turn \newline into \space
7584   #1%
7585   \let\@biditufteheading@orig@cr% revert to original meaning of \
7586 }
7587 \RequirePackage{fancyhdr}
7588 \pagestyle{fancy}
7589 \AtBeginDocument{%
7590   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7591     {\fancyhfoffset[LE,RO]{\@bidituftefloat@overhang}}
7592     {\fancyhfoffset[RE,RO]{\@bidituftefloat@overhang}}
7593 }
7594 % The running heads/feet don't have rules
7595 \renewcommand{\headrulewidth}{0pt}
7596 \renewcommand{\footrulewidth}{0pt}
7597 % The 'fancy' page style is the default style for all pages.
7598 \fancyhf{} % clear header and footer fields
7599   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7600     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7601     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7602     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7603 % The `plain' page style is used on chapter opening pages.
7604 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7605 % bottom of pages -- the folios are unexpressed.
7606 \fancypagestyle{plain}{
7607   \fancyhf{} % clear header and footer fields
7608   % Uncomment the following five lines of code if you want the opening page
7609   % of the chapter to express the folio in the lower outside corner.
7610   % \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7611   %   {\fancyfoot[LE,RO]{\thepage}}
7612   %   {\fancyfoot[RE,RO]{\thepage}}
7613 }
7614 % The `empty' page style suppresses all headers and footers.
7615 % It's used on title pages and `intentionally blank' pages.
7616 \fancypagestyle{empty}{
7617   \fancyhf{} % clear header and footer fields
7618 }

```



```

7619 \def\morefloats{% provides a total of 52 floats
7620   \ifthenelse{\isundefined{\bx@S}}{%
7621     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7622     \newinsert\bx@S
7623     \newinsert\bx@T
7624     \newinsert\bx@U
7625     \newinsert\bx@V
7626     \newinsert\bx@W
7627     \newinsert\bx@X
7628     \newinsert\bx@Y
7629     \newinsert\bx@Z
7630     \newinsert\bx@a
7631     \newinsert\bx@b
7632     \newinsert\bx@c
7633     \newinsert\bx@d
7634     \newinsert\bx@e
7635     \newinsert\bx@f
7636     \newinsert\bx@g
7637     \newinsert\bx@h
7638     \newinsert\bx@i
7639     \newinsert\bx@j
7640     \newinsert\bx@k
7641     \newinsert\bx@l
7642     \newinsert\bx@m
7643     \newinsert\bx@n
7644     \newinsert\bx@o
7645     \newinsert\bx@p
7646     \newinsert\bx@q
7647     \newinsert\bx@r
7648     \newinsert\bx@s
7649     \newinsert\bx@t
7650     \newinsert\bx@u
7651     \newinsert\bx@v
7652     \newinsert\bx@w
7653     \newinsert\bx@x
7654     \newinsert\bx@y
7655     \newinsert\bx@z
7656     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7657                   \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7658                   \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7659                   \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7660                   \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7661                   \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7662                   \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7663                   \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7664                   \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7665                   \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7666                   \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7667                   \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}]%
7668 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7669   \ifthenelse{\isundefined{\bx@AA}}{%
7670     \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7671     \newinsert\bx@AA
7672     \newinsert\bx@BB

```



```

7673 \newinsert\bx@CC
7674 \newinsert\bx@DD
7675 \newinsert\bx@EE
7676 \newinsert\bx@FF
7677 \newinsert\bx@GG
7678 \newinsert\bx@HH
7679 \newinsert\bx@II
7680 \newinsert\bx@JJ
7681 \newinsert\bx@KK
7682 \newinsert\bx@LL
7683 \newinsert\bx@MM
7684 \newinsert\bx@NN
7685 \newinsert\bx@OO
7686 \newinsert\bx@PP
7687 \newinsert\bx@QQ
7688 \newinsert\bx@RR
7689 \newinsert\bx@SS
7690 \newinsert\bx@TT
7691 \newinsert\bx@UU
7692 \newinsert\bx@VV
7693 \newinsert\bx@WW
7694 \newinsert\bx@XX
7695 \newinsert\bx@YY
7696 \newinsert\bx@ZZ
7697 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7698 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7699 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7700 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7701 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7702 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7703 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7704 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7705 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7706 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7707 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7708 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7709 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7710 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7711 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7712 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7713 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7714 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7715 }{%
7716 \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message
7717 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
7718 }%
7719 }%
7720 }
7721 \newboolean{@bidituftefloat@packages@subfigure}
7722 \setboolean{@bidituftefloat@packages@subfigure}{false}
7723 \AtBeginDocument{%
7724 \ifpackageloaded{subfigure}
7725 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{true}}
7726 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{false}}}%

```



```

7727 }
7728 \AtBeginDocument{%
7729   \ifpackageloaded{float}{%
7730     % Save the redefined float environment (instead of the LaTeX float environment)
7731     \let\@bittuftefloat@orig@float\@float
7732     \let\@bittuftefloat@orig@endfloat\end@float
7733
7734     % Define Tuftian float styles (with the caption in the margin)
7735     \newcommand{\floatc@bittuftefloatplain}[2]{%
7736       \begin{lrbox}{\@bittuftefloat@caption@box}%
7737         \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7738           \@bittuftefloat@caption@font{\@fs@cfont #1:} #2\par%
7739         }\end{minipage}%
7740       \end{lrbox}%
7741       \smash{\hspace{\@bittuftefloat@caption@fill}}\usebox{\@bittuftefloat@caption@box}}%
7742   }
7743   \newcommand{\fs@bittuftefloatplain}{%
7744     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7745     \let\@fs@capt\floatc@bittuftefloatplain%
7746     \def\@fs@pre{}%
7747     \def\@fs@post{}%
7748     \def\@fs@mid{}%
7749     \let\@fs@iftopcapt\iftrue%
7750   }
7751   \let\fs@bittuftefloatplaintop=\fs@bittuftefloatplain
7752   \let\floatc@bittuftefloatplaintop=\floatc@bittuftefloatplain
7753   \newcommand\floatc@bittuftefloatruled[2]{%
7754     {\@fs@cfont #1} #2\par%
7755   }
7756   \newcommand\fs@bittuftefloatruled{%
7757     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7758     \let\@fs@capt\floatc@bittuftefloatplain%
7759     \def\@fs@pre{\hrule height .8pt depth 0pt width \textwidth \kern 2pt}%
7760     \def\@fs@post{\kern 2pt \hrule width \textwidth \relax}%
7761     \def\@fs@mid{}%
7762     \let\@fs@iftopcapt\iftrue%
7763   }
7764   \newcommand\fs@bittuftefloatboxed{%
7765     \def\@fs@cfont{}%
7766     \let\@fs@capt\floatc@bittuftefloatplain%
7767     \def\@fs@pre{%
7768       \setbox\@currbox\ vbox{\hbadness 10000
7769         \moveleft 3.4pt \vbox{\advance \hsize by 6.8pt
7770           \hrule \hbox to \hsize{\vrule \kern 3pt
7771             \vbox{\kern 3pt \box\@currbox \kern 3pt}\kern 3pt \vrule}\hrule}}
7772     }%
7773     \def\@fs@mid{\kern 2pt}%
7774     \def\@fs@post{}%
7775     \let\@fs@iftopcapt\iftrue%
7776   }
7777 }{%
7778   % Nothing to do
7779 }
7780 }

```





```

7781 \AtBeginDocument{%
7782   \@ifpackageloaded{algorithm}{%
7783     % Set the float style to the Tufte version
7784     \ifthenelse{equal{ALG@floatstyle}{plain}\OR\equal{ALG@floatstyle}{ruled}\OR\equal{AL
7785       \bidituftefloatInfoNL{Switching algorithm float style from ALG@floatstyle\MessageBrea
7786       \floatstyle{bidituftefloat\ALG@floatstyle}%
7787       \restylefloat{algorithm}%
7788     }{}%
7789   }{%
7790     % Nothing to do
7791   }
7792 }
7793 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File bidituftesidenote.sty

```

7794 \NeedsTeXFormat{LaTeX2e}
7795 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7796 bidi implementation of tufte sidenote]
7797 \RequirePackage{xifthen}
7798 \RequirePackage{ragged2e}
7799 \RequirePackage{setspace}
7800 \RequirePackage{biditools}
7801 \def\bidituftesidenotemarginpar{%
7802   \ifhmode
7803     \@bsphack
7804     \@floatpenalty -\@Mii
7805   \else
7806     \@floatpenalty-\@Miii
7807   \fi
7808   \ifinner
7809     \@parmoderr
7810     \@floatpenalty\z@
7811   \else
7812     \@next\@currbox\@freelist{}{}%
7813     \@next\@marbox\@freelist{global\count\@marbox\m@ne}%
7814     {\@floatpenalty\z@
7815       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7816   \fi
7817   \@ifnextchar [ \@bidituftesidenotexmpar \@bidituftesidenoteympar}
7818 \long\def \@bidituftesidenotexmpar[#1]#2{%
7819   \@bidituftesidenotesavemarbox\@marbox{#1}%
7820   \@bidituftesidenotesavemarbox\@currbox{#2}%
7821   \@xympar}
7822 \long\def \@bidituftesidenoteympar#1{%
7823   \@bidituftesidenotesavemarbox\@marbox{#1}%
7824   \global\setbox\@currbox\copy\@marbox
7825   \@xympar}
7826 \long\def \@bidituftesidenotesavemarbox #1#2{%
7827   \global\setbox #1%
7828     \color@vbox
7829     \vtop{%
7830       \hsize\marginparwidth
7831       \@parboxrestore

```



```

7832     \@bidityftesidenotemarginparreset
7833     #2%
7834     \@minipagefalse
7835     \outer@nobreak
7836     }%
7837     \color@endbox
7838 }
7839 \def \@bidityftesidenotemarginparreset {%
7840     \reset@font
7841     \normalsize
7842     \@minipagetrue
7843     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7844 }
7845 \def \LTRbidityftesidenotemarginpar{%
7846     \ifhmode
7847         \@bsphack
7848         \@floatpenalty -\@Mii
7849     \else
7850         \@floatpenalty-\@Miii
7851     \fi
7852     \ifinner
7853         \@parmoderr
7854         \@floatpenalty\z@
7855     \else
7856         \@next\@currbox\@freelist{ }{}%
7857         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7858         {\@floatpenalty\z@
7859         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7860     \fi
7861     \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7862 \long\def \@LTRbidityftesidenotexmpar[#1]#2{%
7863     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7864     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7865     \@xympar}
7866 \long\def \@LTRbidityftesidenoteympar#1{%
7867     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7868     \global\setbox\@currbox\copy\@marbox
7869     \@xympar}
7870 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7871     \global\setbox #1%
7872         \color@vbox
7873         \vtop{%
7874             \hsize\marginparwidth
7875             \@parboxrestore
7876             \@LTRbidityftesidenotemarginparreset
7877             #2%
7878             \@minipagefalse
7879             \outer@nobreak
7880             }%
7881     \color@endbox
7882 }
7883 \def \@LTRbidityftesidenotemarginparreset {%
7884     \reset@font
7885     \normalsize

```



```

7886     \@minipagetrue
7887     \everypar{\@minipagefalse\everypar{}}\beginL}%
7888 }
7889 \def\RTLbidityftesidenotemarginpar{%
7890   \ifhmode
7891     \@bsphack
7892     \@floatpenalty -\@Mii
7893   \else
7894     \@floatpenalty-\@Miii
7895   \fi
7896   \ifinner
7897     \@parmoderr
7898     \@floatpenalty\z@
7899   \else
7900     \@next\@currbox\@freelist{}{}%
7901     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7902     {\@floatpenalty\z@
7903       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7904   \fi
7905   \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7906 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7907   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7908   \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7909   \@xympar}
7910 \long\def\@RTLbidityftesidenoteympar#1{%
7911   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7912   \global\setbox\@currbox\copy\@marbox
7913   \@xympar}
7914 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7915   \global\setbox #1%
7916     \color@vbox
7917     \vtop{%
7918       \hsize\marginparwidth
7919       \@parboxrestore
7920       \@RTLbidityftesidenotemarginparreset
7921       #2%
7922       \@minipagefalse
7923       \outer@nobreak
7924     }%
7925   \color@endbox
7926 }
7927 \def \@RTLbidityftesidenotemarginparreset {%
7928   \reset@font
7929   \normalsize
7930   \@minipagetrue
7931   \everypar{\@minipagefalse\everypar{}}\beginR}%
7932 }
7933 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7934 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7935 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7936 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7937 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7938 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7939 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}

```



```

7940 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7941 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7942 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7943 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7944 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7945 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7946 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7947 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7948 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7949 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7950 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7951 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7952 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7953 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
7954 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@autodetect}
7955 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@autodetect}
7956 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@autodetect}
7957 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7958 \newcommand{\@bidityftesidenote@margin@par}{%
7959 \setlength{\RaggedRightParindent}{0.5pc}%
7960 \setlength{\JustifyingParindent}{0.5pc}%
7961 \setlength{\parindent}{0.5pc}%
7962 \setlength{\parskip}{0pt}%
7963 }
7964 %%
7965 % Globally sets the length
7966 \@ifundefined{gsetlength}{%
7967 \newcommand*{gsetlength}[2]{%
7968 \setlength{#1}{#2}%
7969 \global#1=#1\relax%
7970 }%
7971 }{}
7972
7973 %%
7974 % A function that removes leading and trailing spaces from the supplied macro.
7975 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7976 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7977 % being trimmed of leading and trailing white space.
7978 \catcode\Q=3
7979 \def\@bidityftesidenote@trim@spaces#1{%
7980 % Use grouping to emulate a multi-token afterassignment queue
7981 \begingroup%
7982 % Put \toks 0 {' into the afterassignment queue
7983 \aftergroup\toks\aftergroup0\aftergroup{%
7984 % Apply \trimb to the replacement text of #1, adding a leading
7985 % \noexpand to prevent brace stripping and to serve another purpose
7986 % later.
7987 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7988 % Transfer the trimmed text back into #1.
7989 \edef#1{\the\toks0}%
7990 }
7991 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7992 % clean up any leftover bizarre Qs, and trim a leading space. In
7993 % order for \trimc to work properly we need to put back a Q first.

```



```

7994 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7995 % Execute \vfuzz assignment to remove leading space; the \noexpand
7996 % will now prevent unwanted expansion of a macro or other expandable
7997 % token at the beginning of the trimmed text. The \endgroup will feed
7998 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7999 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8000 \catcode`\Q=11
8001 %%
8002 % Citations should go in the margin as sidenotes
8003
8004 \RequirePackage{natbib}
8005 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8006 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8007 \renewcommand\BR@b@bibitem[2] [] {%
8008   \ifthenelse{\isempty{#1}}{%
8009     {\BR@bibitem{#2}}%
8010     {\BR@bibitem{#1}{#2}}%
8011   \BR@c@bibitem{#2}}%
8012 }
8013 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8014 %%
8015 % Normal \cite behavior
8016 \newcounter{@bidityftesidenote@num@bibkeys}%
8017 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt] {%
8018   % Snag the last bibentry in the list for later comparison
8019   \let\@temp@last@bibkey\@empty%
8020   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8021   \sidenote[] [#1] {%
8022     % Loop through all the bibentries, separating them with semicolons and spaces
8023     \normalsize\normalfont\@bidityftesidenote@citation@font%
8024     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8025     \@for\@temp@bibkeyx:=#2\do{%
8026       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8027         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8028         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8029         \bibentry{\@temp@bibkeyx}}%
8030         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8031         \bibentry{\@temp@bibkeyx};\ }%
8032     \stepcounter{@bidityftesidenote@num@bibkeys}%
8033   }%
8034 }%
8035 }
8036 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt] {%
8037   % Snag the last bibentry in the list for later comparison
8038   \let\@temp@last@bibkey\@empty%
8039   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8040   \LTRsidenote[] [#1] {%
8041     % Loop through all the bibentries, separating them with semicolons and spaces
8042     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
8043     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8044     \@for\@temp@bibkeyx:=#2\do{%
8045       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8046         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8047         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

8048     \bibentry{\@temp@bibkeyx}}%
8049     {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8050     \bibentry{\@temp@bibkeyx};\ }%
8051     \stepcounter{@bidityftesidenote@num@bibkeys}%
8052   }%
8053 }%
8054 }
8055 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
8056 % Snag the last bibentry in the list for later comparison
8057 \let\@temp@last@bibkey\@empty%
8058 \for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8059 \RTLsidenote[][#1]{%
8060 % Loop through all the bibentries, separating them with semicolons and spaces
8061 \normalsize\normalfont\@bidityftesidenote@citation@font%
8062 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8063 \for\@temp@bibkeyx:=#2\do{%
8064 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8065 {\ifthenelse{equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8066 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8067 \bibentry{\@temp@bibkeyx}}%
8068 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8069 \bibentry{\@temp@bibkeyx};\ }%
8070 \stepcounter{@bidityftesidenote@num@bibkeys}%
8071 }%
8072 }%
8073 }
8074 %%
8075 % Macros for holding the list of cite keys until after the \sidenote
8076 \gdef\@bidityftesidenote@citations{}% list of cite keys
8077 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8078 \ifx\@bidityftesidenote@citations\@emptyelse
8079 \g@addto@macro\@bidityftesidenote@citations{,% separate by commas
8080 \fi
8081 \g@addto@macro\@bidityftesidenote@citations{#1}
8082 }
8083 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8084 % Snag the last bibentry in the list for later comparison
8085 \let\@temp@last@bibkey\@empty%
8086 \for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8087 \marginpar{%
8088 \hbox{} \vspace*{#1}%
8089 \@bidityftesidenote@citation@font%
8090 \@bidityftesidenote@citation@justification%
8091 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8092 \vspace*{-1\baselineskip}%
8093 % Loop through all the bibentries, separating them with semicolons and spaces
8094 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8095 \for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8096 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8097 {\ifthenelse{equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8098 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8099 \bibentry{\@temp@bibkeyx}}%
8100 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8101 \bibentry{\@temp@bibkeyx};\ }%

```



```

8102     \stepcounter{@bidituftesidenote@num@bibkeys}%
8103   }%
8104 }%
8105 }
8106 %%
8107 % \cite behavior when executed within a sidenote
8108 \newcommand{@bidituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8109 \newcommand{@bidituftesidenote@infootnote@cite}[1]{%
8110   \@bidituftesidenote@add@citation{#1}
8111 }
8112 %%
8113 % Set the default \cite style. This is set and reset by the \sidenote command.
8114 \let\cite\@bidituftesidenote@normal@cite
8115 \let\LTRcite\@bidituftelTRSidenote@normal@cite
8116 \let\RTLcite\@biditufterTLsidenote@normal@cite
8117 %%
8118 % Transform existing \footnotes into \sidenotes
8119 % Sidenote: ``Where God meant footnotes to go.''' ---bidituftesidenote
8120 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8121 \providecommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote
8122 \renewcommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote
8123 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8124 % sidenote's text block.
8125 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidituftesidenote
8126 % Set the in-text footnote mark in the same typeface as the body text itself.
8127 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8128 \providecommand*\multiplefootnotemarker}{3sp}
8129 \providecommand*\multfootsep}{,}
8130 \bidi@patch@AfterPackage{bidi}{%
8131 \renewcommand{\@footnotemark}{%
8132   \leavevmode%
8133   \ifhmode%
8134     \edef\@x@sf{\the\spacefactor}%
8135     \@bidituftesidenote@check@multiple@sidenotes%
8136     \nobreak%
8137     \fi%
8138     \@makefnmark%
8139     \ifhmode\spacefactor\@x@sf\fi%
8140     \relax%
8141 }%
8142 }
8143 \newcommand{@bidituftesidenote@check@multiple@sidenotes}{%
8144   \ifdim\lastkern=\multiplefootnotemarker\relax%
8145     \edef\@x@sf{\the\spacefactor}%
8146     \unkern%
8147     \textsuperscript{\multfootsep}%
8148     \spacefactor\@x@sf\relax%
8149     \fi
8150 }
8151 \bidi@patch@AfterPackage{bidi}{%
8152 \renewcommand\@footnotetext[2][0pt]{%
8153   \bidituftesidenotemarginpar{%
8154     \hbox{} \vspace*{#1}%
8155     \def\baselinestretch {\setspace@singlespace}%

```



```

8156 \reset@font%
8157 \bidi@footnotetext@font% \reset@font\footnotesize%
8158 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8159 \vspace*{-1\baselineskip}\noindent%
8160 \protected@edef\@currentlabel{%
8161     \csname p@footnote\endcsname\@thefnmark%
8162 }%
8163 \color@begingroup%
8164     \@makefntext{%
8165         \ignorespaces#2%
8166     }%
8167 \color@endgroup%
8168 }%
8169 }%
8170 \renewcommand\@LTRfootnotetext[2][Opt]{%
8171 \LTRbidityftesidenotemarginpar{%
8172     \hbox{ }\vspace*{#1}%
8173     \def\baselinestretch {\setspaces@inglespace}%
8174     \reset@font%
8175     \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8176     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8177     \vspace*{-1\baselineskip}\noindent%
8178     \protected@edef\@currentlabel{%
8179         \csname p@footnote\endcsname\@thefnmark%
8180     }%
8181     \color@begingroup%
8182         \@makefntext{%
8183             \ignorespaces#2%
8184         }%
8185     \color@endgroup%
8186 }%
8187 }%
8188 \renewcommand\@RTLfootnotetext[2][Opt]{%
8189 \RTLbidityftesidenotemarginpar{%
8190     \hbox{ }\vspace*{#1}%
8191     \def\baselinestretch {\setspaces@inglespace}%
8192     \reset@font%
8193     \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8194     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8195     \vspace*{-1\baselineskip}\noindent%
8196     \protected@edef\@currentlabel{%
8197         \csname p@footnote\endcsname\@thefnmark%
8198     }%
8199     \color@begingroup%
8200         \@makefntext{%
8201             \ignorespaces#2%
8202         }%
8203     \color@endgroup%
8204 }%
8205 }%
8206 }
8207 %
8208 % Define \sidenote command. Can handle \cite.
8209 \newlength{\@bidityftesidenote@sidenote@vertical@offset}

```





```

8210 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8211 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8212 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8213   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8214   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8215   \ifthenelse{\NOT\isempty{#2}}{%
8216     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8217   }{%
8218     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8219   }%
8220   \ifthenelse{\isempty{#1}}{%
8221     % no specific footnote number provided
8222     \stepcounter\@mpfn%
8223     \protected@xdef\@thefnmark{\thempfn}%
8224     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8225   }{%
8226     % specific footnote number provided
8227     \begingroup%
8228     \csname c@\@mpfn\endcsname #1\relax%
8229     \unrestored@protected@xdef\@thefnmark{\thempfn}%
8230     \endgroup%
8231     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8232   }%
8233   \@bidityftesidenote@print@citations%           print any citations
8234   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8235   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8236   \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8237   \unskip\ignorespaces%                          remove extra white space
8238   \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
8239   \kern\multiplefootnotemarker\relax%            add new \kern here to replace the one we yanked
8240 }
8241 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8242   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8243   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8244   \ifthenelse{\NOT\isempty{#2}}{%
8245     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8246   }{%
8247     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8248   }%
8249   \ifthenelse{\isempty{#1}}{%
8250     % no specific footnote number provided
8251     \stepcounter\@mpfn%
8252     \protected@xdef\@thefnmark{\thempfn}%
8253     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8254   }{%
8255     % specific footnote number provided
8256     \begingroup%
8257     \csname c@\@mpfn\endcsname #1\relax%
8258     \unrestored@protected@xdef\@thefnmark{\thempfn}%
8259     \endgroup%
8260     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8261   }%
8262   \@bidityftesidenote@print@citations%           print any citations
8263   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm

```



```

8264 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%      go back to using normal in-text \LTR
8265 \let\RTLcite\@bidityfteRTLSidenote@normal@cite%      go back to using normal in-text \RTL
8266 \unskip\ignorespaces%                                remove extra white space
8267 \kern-\multiplefootnotemarker%                      remove \kern left behind by sidenote
8268 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8269 }
8270 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8271 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8272 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8273 \ifthenelse{\NOT\isempty{#2}}{%
8274   \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8275 }{%
8276   \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
8277 }%
8278 \ifthenelse{\isempty{#1}}{%
8279   % no specific footnote number provided
8280   \stepcounter\@mpfn%
8281   \protected@xdef\@thefnmark{\thempfn}%
8282   \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8283 }{%
8284   % specific footnote number provided
8285   \begingroup%
8286     \csname c@\@mpfn\endcsname #1\relax%
8287     \unrestored@protected@xdef\@thefnmark{\thempfn}%
8288     \endgroup%
8289     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8290 }%
8291 \@bidityftesidenote@print@citations%                print any citations
8292 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite comm
8293 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%    go back to using normal in-text \LTR
8294 \let\RTLcite\@bidityfteRTLSidenote@normal@cite%    go back to using normal in-text \RTL
8295 \unskip\ignorespaces%                                remove extra white space
8296 \kern-\multiplefootnotemarker%                      remove \kern left behind by sidenote
8297 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8298 }
8299 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[ ] [Opt]}}
8300 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[ ] [Opt]}}
8301 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[ ] [Opt]}}
8302 \bidi@patch@AfterPackage{bidi}{%
8303 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[ ] [Opt]}}%
8304 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[ ] [Opt]}}%
8305 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[ ] [Opt]}}%
8306 }
8307 %%
8308 % Sidenote without the footnote mark
8309 \newcommand\marginnote[2] [Opt]{%
8310 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8311 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8312 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@marginnote@font\@bidity
8313 \@bidityftesidenote@print@citations%                print any citations
8314 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite comm
8315 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%    go back to using normal in-text \LTR
8316 \let\RTLcite\@bidityfteRTLSidenote@normal@cite%    go back to using normal in-text \RTL
8317 }

```



```

8318 \newcommand\LTRmarginnote[2][Opt]{%
8319 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8320 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8321 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8322 \@bidityftesidenote@print@citations% print any citations
8323 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8324 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8325 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8326 }
8327 \newcommand\RTLmarginnote[2][Opt]{%
8328 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8329 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8330 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8331 \@bidityftesidenote@print@citations% print any citations
8332 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8333 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8334 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8335 }

```

## 55 File bidityftetoc.sty

```

8336 \NeedsTeXFormat{LaTeX2e}
8337 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8338 bidi implementation of tuftes toc]
8339 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8340 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8341 \newcommand{\@bidityftetoc@error}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8342 %%
8343 % Turn off section numbering
8344 \setcounter{secnumdepth}{-1}
8345 \newboolean{@bidityftetoc@toc}
8346 \setboolean{@bidityftetoc@toc}{true}
8347 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8348 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8349 \ProcessOptions
8350 %%
8351 % Make Tuftian-style section headings and TOC formatting
8352 \bidi@patch@AfterPackage{bidi}{%
8353 \titleformat{\chapter}%
8354 [display]% shape
8355 {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8356 {\itshape\huge\thechapter}% label
8357 {Opt}% horizontal separation between label and title body
8358 {\huge\rmfamily\itshape}% before the title body
8359 [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8360 \titleformat{\section}%
8361 [hang]% shape
8362 {\normalfont\Large\itshape}% format applied to label+text
8363 {\thesection}% label
8364 {1em}% horizontal separation between label and title body
8365 {}% before the title body
8366 []% after the title body
8367 \titleformat{\subsection}%
8368 [hang]% shape

```



```

8369 {\normalfont\large\itshape}% format applied to label+text
8370 {\thesubsection}% label
8371 {1em}% horizontal separation between label and title body
8372 {}% before the title body
8373 []% after the title body
8374 \titleformat{\paragraph}%
8375 [runin]% shape
8376 {\normalfont\itshape}% format applied to label+text
8377 {\theparagraph}% label
8378 {1em}% horizontal separation between label and title body
8379 {}% before the title body
8380 []% after the title body
8381 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8382 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8383 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
8384 }
8385 % Subsubsection and following section headings shouldn't be used.
8386 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8387 \renewcommand\subsubsection{%
8388 \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8389 \MessageBreak See Robert Bringhurst's _The Elements of
8390 \MessageBreak Typographic Style_, section 4.2.2.
8391 \MessageBreak \noexpand\subsubsection was used}
8392 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8393 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8394 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8395 }
8396 \renewcommand\subparagraph{%
8397 \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8398 \MessageBreak See Robert Bringhurst's _The Elements of
8399 \MessageBreak Typographic Style_, section 4.2.2.
8400 \MessageBreak \noexpand\subparagraph was used}
8401 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8402 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8403 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8404 }
8405 % Formatting for main TOC (printed in front matter)
8406 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8407 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8408 \bidi@patch@AfterPackage{bidi}{%
8409 \titlecontents{part}% FIXME
8410 [0em] % distance from left margin
8411 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8412 {\contentslabel{2em}} % before w/label (label = ``II'')
8413 {} % before w/o label
8414 {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8415 [\end{fullwidth}] % after
8416 \titlecontents{chapter}%
8417 [0em] % distance from left margin
8418 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8419 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8420 {\hspace*{0em}} % before w/o label
8421 {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8422 [\end{fullwidth}] % after

```



```

8423 \titlecontents{section}% FIXME
8424 [0em] % distance from left margin
8425 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8426 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8427 {\hspace*{2em}} % before w/o label
8428 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8429 [\end{fullwidth}] % after
8430 \titlecontents{subsection}% FIXME
8431 [0em] % distance from left margin
8432 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8433 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8434 {\hspace*{4em}} % before w/o label
8435 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8436 [\end{fullwidth}] % after
8437 \titlecontents{paragraph}% FIXME
8438 [0em] % distance from left margin
8439 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format
8440 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8441 {\hspace*{6em}} % before w/o label
8442 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8443 [\end{fullwidth}] % after
8444 }%
8445 }{}
8446 %%
8447 % Format lists of figures/tables
8448 \renewcommand\listoffigures{%
8449 \@ifundefined{chapter}%
8450 {\section*{\listfigurename}}%
8451 {\chapter*{\listfigurename}}%
8452 % \begin{fullwidth}%
8453 \@starttoc{lof}%
8454 % \end{fullwidth}%
8455 }
8456 \renewcommand\listoftables{%
8457 \@ifundefined{chapter}%
8458 {\section*{\listtablename}}%
8459 {\chapter*{\listtablename}}%
8460 % \begin{fullwidth}%
8461 \@starttoc{lot}%
8462 % \end{fullwidth}%
8463 }
8464 \newcommand{\@biditytetoc@lof@line}[2]{%
8465 % #1 is the figure/table number and its caption text
8466 % #2 is the page number on which the figure/table appears
8467 \leftskip 0.0em
8468 \rightskip 0em
8469 \parfillskip 0em plus 1fil
8470 \parindent 0.0em
8471 \@afterindenttrue
8472 \interlinepenalty\@M
8473 \leavevmode
8474 \@tempdima 2.0em
8475 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8476 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

8477  {#1}\nobreak\quad\nobreak#2%
8478  \par%
8479  }
8480  \renewcommand*\l@figure{\@biditytetoc@lof@line}
8481  \let\l@table\l@figure

```

## 56 File `bidituftegeneralstructure.sty`

```

8482  \NeedsTeXFormat{LaTeX2e}
8483  \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8484  bidi implementation of tufte general structure]
8485  \renewcommand\small{%
8486    \@setfontsize\small\@ixpt{12}%
8487    \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8488    \abovedisplayshortskip \z@ \@plus2\p@
8489    \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8490    \def\@listi{\leftmargin\leftmargini
8491              \topsep 4\p@ \@plus2\p@ \@minus2\p@
8492              \parsep 2\p@ \@plus\p@ \@minus\p@
8493              \itemsep \parsep}%
8494    \belowdisplayskip \abovedisplayskip
8495  }
8496  \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8497  \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
8498  \renewcommand\large{\@setfontsize\large\@xipt{15}}
8499  \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8500  \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8501  \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8502  \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8503  \setlength\leftmargini  {1pc}
8504  \setlength\leftmarginii {1pc}
8505  \setlength\leftmarginiii {1pc}
8506  \setlength\leftmarginiv  {1pc}
8507  \setlength\leftmarginv   {1pc}
8508  \setlength\leftmarginvi  {1pc}
8509  \setlength\labelsep     {.5pc}
8510  \setlength\labelwidth   {\leftmargini}
8511  \addtolength\labelwidth{-\labelsep}
8512  \setlength{\parindent}{1.0pc}%
8513  \setlength{\parskip}{0pt}%
8514  \RequirePackage{ragged2e}
8515  \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8516  % Paragraph indentation and separation for normal text
8517  \newcommand{\@biditytetogeneralstructure@reset@par}{%
8518    \setlength{\RaggedRightParindent}{1.0pc}%
8519    \setlength{\JustifyingParindent}{1.0pc}%
8520    \setlength{\parindent}{1pc}%
8521    \setlength{\parskip}{0pt}%
8522  }
8523  \@biditytetogeneralstructure@reset@par
8524  % Require paralist package for tighter lists
8525  \RequirePackage{paralist}
8526  % Add rightmargin to compactenum
8527  \def\@compactenum@{%

```



```

8528 \expandafter\list\csname label\@enumctr\endcsname{%
8529   \usecounter{\@enumctr}%
8530   \rightmargin=2em% added this
8531   \parsep\plparsep
8532   \itemsep\plitemsep
8533   \topsep\pltopsep
8534   \partopsep\plpartopsep
8535   \def\makelabel##1{\hss\llap{##1}}}}
8536 %%
8537 % An environment for paragraph-style section
8538 \providecommand\newthought[1]{%
8539   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8540   \noindent\textbf{#1}%
8541 }
8542 %%
8543 % Redefine the display environments (quote, quotation, etc.)
8544 \renewenvironment{verse}
8545     {\let\\@centercr
8546     \list{}{\itemsep \z@
8547             \itemindent -1pc%
8548             \listparindent\itemindent
8549             \rightmargin \leftmargin
8550             \advance\leftmargin 1pc}%
8551     \small%
8552     \item\relax}
8553     {\endlist}
8554 \renewenvironment{quotation}
8555     {\list{}{\listparindent 1pc%
8556             \itemindent \listparindent
8557             \rightmargin \leftmargin
8558             \parsep \z@ \@plus\p@}%
8559     \small%
8560     \item\relax\noindent\ignorespaces}
8561     {\endlist}
8562 \renewenvironment{quote}
8563     {\list{}{\rightmargin\leftmargin}%
8564     \small%
8565     \item\relax}
8566     {\endlist}
8567 % Italicize description run-in headings (instead of the default bold)
8568 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8569 %%
8570 % Redefine \bibsection to not mark the running heads.
8571 % (Code modified from natbib.sty.)
8572 \@ifundefined{chapter}%
8573     {\renewcommand\bibsection{\section*{\refname}}}
8574     {\@ifundefined{NAT@sectionbib}%
8575     {\renewcommand\bibsection{\chapter{\bibname}}}
8576     {\renewcommand\bibsection{\section*{\bibname}}}}
8577 \RequirePackage{multicol}
8578 \renewenvironment{theindex}{%
8579 \@ifundefined{chapter}%
8580     {\section*{\indexname}}%
8581     {\chapter{\indexname}}%

```



```

8582 \begin{fullwidth}%
8583 \small%
8584 \parskipOpt%
8585 \parindentOpt%
8586 \let\item\@idxitem%
8587 \begin{multicols}{3}%
8588 }{%
8589 \end{multicols}%
8590 \end{fullwidth}%
8591 }
8592 \AtBeginDocument{%
8593 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8594 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8595 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}
8596 \renewcommand\indexspace{\par\advspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8597 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8598 \NeedsTeXFormat{LaTeX2e}
8599 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8600 bidi implementation of tufte hyperref]
8601 %%
8602 % Color
8603 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8604 \newboolean{@bidituftehyperref@loadhyper}
8605 \setboolean{@bidituftehyperref@loadhyper}{true}
8606 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8607 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8608 \ProcessOptions
8609 %% Loads the hyperref package and sets some default options.
8610 \newcommand{\bidituftehyperrefLoadHyperref}{%
8611 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8612 \hypersetup{%
8613     bookmarksdepth = section,
8614     citecolor = DarkGreen,
8615     linkcolor = DarkBlue,
8616     pagecolor = DarkBlue,
8617     urlcolor = DarkGreen,
8618 }%
8619 }
8620 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8621 \bidituftehyperrefLoadHyperref%
8622 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8623 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8624 }

```

## 58 File `bidituftetitle.sty`

```

8625 \NeedsTeXFormat{LaTeX2e}
8626 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8627 bidi implementation of tufte title]
8628 \RequirePackage{biditools}
8629 %%

```





```

8630 % `titlepage' option -- creates a full title page with \maketitle
8631 \newboolean{@bidityttitle@titlepage}
8632 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8633 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8634 % Default `book' and `handout' options
8635 \@ifclassloaded{book}{%
8636 \ExecuteOptions{titlepage}}{%
8637 \@ifclassloaded{article}{%
8638 \ExecuteOptions{notitlepage}}%
8639 {}}
8640 \ProcessOptions
8641 %%
8642 % Modified \title, \author, and \date commands. These store the
8643 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8644 \newcommand{\plaintitle}{}% plain-text-only title
8645 \newcommand{\plainauthor}{}% plain-text-only author
8646 \newcommand{\plainpublisher}{}% plain-text-only publisher
8647 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8648 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8649 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8650 \newcommand{\@publisher}{}% full publisher with \thanks{}
8651 \newcommand{\thedata}{\today}
8652 \bidi@patch@AfterPackage{bidi}{%
8653 \renewcommand{\thanks}[1]{\footnote{#1}}
8654 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8655 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8656 }
8657 \renewcommand{\title}[2] []{%
8658 \gdef\@title{#2}%
8659 \begingroup%
8660 % TODO store contents of \thanks command
8661 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8662 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8663 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8664 \protected@xdef\thanklesstitle{#2}%
8665 \endgroup%
8666 \ifthenelse{\isempty{#1}}%
8667 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8668 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8669 \@ifundefined{hypersetup}%
8670 {}% hyperref is not loaded; do nothing
8671 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8672 }
8673 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8674 \renewcommand{\author}[2] []{%
8675 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8676 \begingroup%
8677 % TODO store contents of \thanks command
8678 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8679 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8680 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8681 \protected@xdef\thanklessauthor{#2}%
8682 \endgroup%
8683 \ifthenelse{\isempty{#1}}%

```



```

8684   {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8685   {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8686   \@ifundefined{hypersetup}%
8687     {}% hyperref is not loaded; do nothing
8688     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8689 }
8690 \renewcommand{\date}[1]{%
8691   \gdef\@date{#1}%
8692   \begingroup%
8693     % TODO store contents of \thanks command
8694     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8695     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8696     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8697     \protected@xdef\thedata{#1}%
8698   \endgroup%
8699 }
8700 %%
8701 % Provides a \publisher command to set the publisher
8702 \newcommand{\publisher}[2] []{%
8703   \gdef\@publisher{#2}%
8704   \begingroup%
8705     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8706     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8707     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8708     \protected@xdef\thanklesspublisher{#2}%
8709   \endgroup%
8710   \ifthenelse{\isempty{#1}}
8711     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8712     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8713 }
8714 %%
8715 % Produces a full title page
8716 \newcommand{\maketitlepage}[0]{%
8717   \cleardoublepage%
8718   {%
8719     \bfseries%
8720     \begin{fullwidth}%
8721       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8722       \vspace{11.5pc}%
8723       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8724       \vfill%
8725       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8726     \end{fullwidth}%
8727   }
8728   \thispagestyle{empty}%
8729   \clearpage%
8730 }
8731 %%
8732 % Title block
8733 \bidi@AfterEndPreamble{%
8734 \renewcommand{\maketitle}{%
8735   \newpage%
8736   \global\@topnum\z@% prevent floats from being placed at the top of the page
8737   \begingroup%

```



```

8738 \setlength{\parindent}{0pt}%
8739 \setlength{\parskip}{4pt}%
8740 \let\@@title\@empty%
8741 \let\@@author\@empty%
8742 \let\@@date\@empty%
8743 \gdef\@@title{\LARGE\itshape\@title\par}%
8744 \gdef\@@author{\Large\itshape\@author\par}%
8745 \gdef\@@date{\Large\itshape\@date\par}%
8746 \@@title%
8747 \@@author%
8748 \@@date%
8749 \endgroup%
8750 \thispagestyle{plain}% suppress the running head
8751 }%
8752 }
8753 %%
8754 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8755 % class.)
8756 \bidi@AfterEndPreamble{%
8757 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}
8758 {\renewcommand{\maketitle}{\maketitlepage}}
8759 {}
8760 }
8761 %%
8762 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8763 % without headers and footers
8764 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8765 \hbox{}
8766 %\vspace*{\fill}
8767 %\begin{center}
8768 % This page intentionally contains only this sentence.
8769 %\end{center}
8770 %\vspace{\fill}
8771 \thispagestyle{empty}
8772 \newpage
8773 \if@twocolumn\hbox{} \newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8774 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8775 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8776 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8777 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8778 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8779 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8780 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8781 \ProcessOptions\relax
8782 \LoadClass{article}
8783 \RequirePackage{bidentuftefloat}
8784 \RequirePackage{bidentuftesidenote}
8785 \RequirePackage{bidentuftetoc}
8786 \RequirePackage{bidentuftegeneralstructure}
8787 \RequirePackage{bidentuftehyperref}
8788 \RequirePackage{bidentuftetitle}

```



```

8789 \renewenvironment{abstract}
8790   {\begin{quotation}}
8791   {\end{quotation}}
8792 \AtBeginDocument{%
8793 \IfFileExists{biditufte-handout.cfg}
8794   {\input{biditufte-handout.cfg}
8795     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8796   }%
8797 }

```

## 60 File biditufte-book.cls

```

8798 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8799 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8800 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8801 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8802 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8803 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8804 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8805 \ProcessOptions\relax
8806 \LoadClass{book}
8807 \RequirePackage{bidituftefloat}
8808 \RequirePackage{bidituftesidenote}
8809 \RequirePackage{bidituftetoc}
8810 \RequirePackage{bidituftegeneralstructure}
8811 \RequirePackage{bidituftehyperref}
8812 \RequirePackage{bidituftetitle}
8813 %%
8814 % Set up any book-specific stuff now
8815 %%
8816 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8817 % to the opening page of Chapter 1. The running heads, when they appear,
8818 % contain only the (arabic) page number in the outside corner.
8819 %\newif\if@mainmatter \@mainmattertrue
8820 \renewcommand\frontmatter{%
8821   \cleardoublepage%
8822   \@mainmatterfalse%
8823   \pagenumbering{arabic}%
8824   %\pagestyle{plain}%
8825   \fancyhf{}%
8826   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8827     {\fancyhead[LE,RO]{\thepage}}%
8828     {\fancyhead[RE,RO]{\thepage}}%
8829 }
8830 %%
8831 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8832 % numbering--it continues where it left off in the front matter.
8833 \renewcommand\mainmatter{%
8834   \cleardoublepage%
8835   \@mainmattertrue%
8836   \fancyhf{}%
8837   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8838     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8839     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title

```



```

8840     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8841     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}}% book title
8842 }
8843 %%
8844 % The back matter contains appendices, indices, glossaries, endnotes,
8845 % bibliographies, list of contributors, illustration credits, etc.
8846 \renewcommand\backmatter{%
8847   \if@openright%
8848     \cleardoublepage%
8849   \else%
8850     \clearpage%
8851   \fi%
8852   \@mainmatterfalse%
8853 }
8854 %%
8855 % Only show the chapter titles in the table of contents
8856 \setcounter{tocdepth}{0}
8857 \AtBeginDocument{%
8858 \IfFileExists{biditufte-book.cfg}
8859   {\input{biditufte-book.cfg}
8860    \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8861   }%
8862 }

```

## 61 File bidipoem.sty

```

8863 \NeedsTeXFormat{LaTeX2e}
8864 \ProvidesPackage{bidipoem}%
8865 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8866
8867 % Usage:
8868 %
8869 % \Setversedim #1#2   % define the layout (within a group):
8870 % #1 = length of both half-verses
8871 % #2 = separation distance = length of a connection, if present
8872 % Variant:
8873 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8874 % #1 = length of first (=right) half-verse
8875 % #2 = length of second (=left) half-verse
8876 % #3 = separation distance = length of a connection, if present
8877 %
8878 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8879 % #1 = text of first (=right) half-verse
8880 % #2 = text of second (=left) half-verse
8881 % Variant:
8882 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8883 % #1 = text of first (=right) half-verse
8884 % #2 = text of connection
8885 % #3 = text of second (=left) half-verse
8886 %
8887 % Alternative (if preferred):
8888 %
8889 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8890

```



```

8891
8892 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8893
8894 % define the layout, verses will be centered
8895
8896 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8897 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8898
8899 \newcommand*{\Setversesdim}[2]{% set lengths of half-verse, [separation]
8900 \bidipoem@hvind \textwidth
8901 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8902 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8903 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem
8904
8905 \def \bidipoem@set@verseI [#1]{% optional parameter
8906 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8907
8908 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8909 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8910 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8911
8912 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8913 \ifdim Opt > \bidipoem@hvind %
8914 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8915 \else
8916 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8917 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8918 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8919 \par }
8920
8921 % macro for two half verses
8922 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8923 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8924 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8925 \bidipoem@half@verses@next}
8926
8927 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8928 \traditionalconnverses {#1}{#2}{#3}}
8929
8930
8931 {\catcode\^^M=\active % these lines must end with %
8932 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
8933 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8934 {\catcode\^^M=\active % these lines must end with %
8935 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8936 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8937 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8938 \def\poemmarginskip{1em plus 1fil minus 1em}
8939 \def\poemextrabaselineskip{0\baselineskip}
8940 \def\poemskip{\medskip}
8941 \newcommand{\bidipoem@openbox}{\leavevmode
8942 \hbox to.77778em{%
8943 \hfil\vrule
8944 \vbox to.675em{\hrule width.6em\vfil\hrule}%

```



```

8945 \vrule\hfil}}
8946 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8947 \newdimen\versewidth
8948 \newtoks\bidipoem@p@ftn
8949 \def\poem@verse#1{%
8950 \ifdim\wd#1>\new@poem@width
8951 \xdef\new@poem@width{\the\wd#1}%
8952 \ifdim\new@poem@width>\poem@width
8953 \xdef\poem@width{\new@poem@width}%
8954 \global\let\poem@needrun\relax
8955 \fi
8956 \fi
8957 \hbox to\poem@width{\unhbox#1}%
8958 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8959 }
8960 \def\poem@linebegin{\vadjust{}}\hskip\@flushglue\hskip\poemmargin\relax}
8961 \def\poem@lineend{\nobreak\hskip\poemmargin\hskip\@flushglue\vadjust{}}
8962 \def\poem@lineversesep{%
8963 \nobreak
8964 \hskip\z@ plus 1filll%
8965 \penalty600%
8966 \hskip\poemcolsepskip
8967 \hskip\z@ plus -2filll%
8968 \vadjust{}}%
8969 \nobreak
8970 \hskip\z@ plus 1filll%
8971 }
8972 \def\poem@lineparsebegin{%
8973 \halign\bgroup
8974 \global\setbox\verse@i=\hbox{%
8975 \let\@footnotetext\bidipoem@p@ftntext%
8976 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8977 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8978 \let\@xfootnotenext\bidipoem@p@xftntext%
8979 \let\@xfootnote\bidipoem@p@xfootnote%
8980 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8981 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8982 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8983 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8984 \ignorespaces##\unskip}&&
8985 \global\setbox\verse@ii=\hbox{%
8986 \let\@footnotetext\bidipoem@p@ftntext%
8987 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8988 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8989 \let\@xfootnotenext\bidipoem@p@xftntext%
8990 \let\@xfootnote\bidipoem@p@xfootnote%
8991 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8992 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8993 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8994 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8995 \ignorespaces##\unskip}
8996 \cr
8997 }
8998 \def\poem@lineparseend{%

```



```

8999 \crr\egroup
9000 \vskip-\baselineskip
9001 }
9002 \def\traditionalpoem@cr{%
9003   \cr\poem@line
9004 }
9005 \newbox\verse@i
9006 \newbox\verse@ii
9007 \newif\ifpoem@started
9008
9009 \def\poem@line{%
9010 \poem@lineparseend
9011 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9012 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9013 \ifpoem@started
9014   \ifdim\wd\verse@ii>\z@\else
9015     \nopagebreak[3]
9016     \fi
9017     \leavevmode
9018     \poem@linebegin
9019     \poem@verse\verse@i
9020     \ifdim\wd\verse@ii>\z@
9021     \poem@lineversesep
9022     \poem@verse\verse@ii
9023     \fi
9024     \poem@lineend
9025 %   \nopagebreak
9026   \par
9027   \vskip\poemextrabaselineskip
9028 \fi
9029 \poem@lineparsebegin
9030 }
9031 \def\@traditionalpoem{%
9032 \stepcounter{poem@no}
9033   \ifnum\max@poem@no<\number\c@poem@no%
9034 \xdef\poem@width{\z@}%
9035   \else
9036 \xdef\poem@width{\poem@prop{poem@width}}%
9037 \fi
9038 \xdef\new@poem@width{\z@}%
9039 \global\versewidth=\poem@width
9040 \poemskip\par
9041 \begingroup
9042 \tabskip=\z@
9043 \parskip=\z@
9044 \parindent=\z@
9045 \parfillskip=\z@
9046 \rightskip=\z@
9047 \leftskip=\z@
9048 \widowpenalty=10000% No break between verses of the same line.
9049 \clubpenalty=10000% Same as above. Not really needed.
9050 \def\newblock{\hfil\poemblocksep\hfil\null}%
9051 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9052 \def\{\global\poem@startedtrue\traditionalpoem@cr}%

```





```

9053 \global\poem@startedfalse
9054 \csname poem@obeylines\endcsname
9055 \let\poem@obeylines\relax
9056 \poem@lineparsebegin
9057 }
9058 \def\endtraditionalpoem{%
9059 \cr
9060 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9061 \noalign{%
9062 \skip0=\poemextrabaselineskip
9063 \vskip-\skip0
9064 \vskip-\baselineskip
9065 }%
9066 \fi\fi
9067 \poem@lineparseend
9068 \endgroup
9069 \par
9070 \vskip\baselineskip
9071 \poemskip
9072 \ifdim\new@poem@width<\poem@width
9073 \global\let\poem@needrun\relax
9074 \fi
9075 \poem@write@aux{\poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9076 \ifx\AtEndDocument\undefined\poem@finish\fi
9077 \@endparenv
9078 }
9079
9080
9081 \long\def\bidipoem@p@ftntext#1{%
9082 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
9083 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
9084 \long\def\bidipoem@p@LTRftntext#1{%
9085 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
9086 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
9087 \long\def\bidipoem@p@RTLftntext#1{%
9088 \edef\@temp{xii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
9089 \global\bidipoem@p@ftn\expandafter{\@temp{xii{#1}}}%
9090
9091 \long\def\bidipoem@p@xftntext[#1]#2{%
9092 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}
9093
9094 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9095 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}
9096
9097 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9098 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9099
9100 \def\bidipoem@p@xfootnote[#1]{%
9101 \begingroup
9102 \csname c@\mpfn\endcsname #1\relax
9103 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9104 \endgroup
9105 \@footnotemark\bidipoem@p@xftntext[#1]}
9106

```



```

9107 \def\bidipoem@p@xLTRfootnote[#1]{%
9108   \begingroup
9109     \csname c@\mpfn\endcsname #1\relax
9110     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9111   \endgroup
9112   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9113
9114 \def\bidipoem@p@xRTLfootnote[#1]{%
9115   \begingroup
9116     \csname c@\mpfn\endcsname #1\relax
9117     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9118   \endgroup
9119   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9120
9121
9122
9123 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9124 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9125 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9126 \def\poem@finish{%
9127 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9128 \ifx\poem@needrun\relax
9129 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
9130 \global\let\poem@needrun\undefined
9131 \fi
9132 }
9133 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9134 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9135 \ifx\max@poem@no\undefined
9136   \def\max@poem@no{0}%
9137 \fi
9138 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
9139 \newcommand{\poem@write@aux}[2]{%
9140   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9141   \@x
9142 }
9143 \def\@modernpoem{%
9144 \par
9145 \begingroup
9146 \parskip=\z@
9147 \parindent=\z@
9148 \def\[{ \@settab\@tabplus\ignorespaces}%
9149 \def\]\@tabminus\ignorespaces}%
9150 \def\newblock{\poemblocksep}%
9151 \let\newpoem@tabcr\@tabcr
9152 \def\modernpoem@par{% Redefine \par for possible \obeylines
9153   \ifpoem@started\else
9154     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9155       \@stopfield
9156     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9157     \@contfield
9158   \fi
9159 \fi
9160 \ifpoem@started\newpoem@tabcr\fi}%

```



```

9161 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9162 \global\poem@startedfalse
9163 \csname poem@obeylines\endcsname
9164 \let\poem@obeylines\relax
9165 \begin{tabbing}%
9166 }
9167 \def\@endmodernpoem{%
9168 \global\poem@startedfalse
9169 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9170 \@stopfield
9171 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9172 \@contfield
9173 \fi
9174 \ifpoem@started\else\let\@stopline\@stopfield\fi
9175 \end{tabbing}%
9176 \endgroup
9177 \par
9178 \if@nparlist \else
9179 \ifdim\lastskip >\z@
9180 \@tempkipa\lastskip \vskip -\lastskip
9181 \advance\@tempkipa\parskip \advance\@tempkipa -\@outerparskip
9182 \vskip\@tempkipa
9183 \fi
9184 \@endparenv
9185 \fi
9186 }
9187 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9188 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9189 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9190 \gdef\@startfield{%
9191 \global\setbox\@curfield\hbox\bgroup%
9192 \let\@footnotetext\bidipoem@p@ftntext%
9193 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9194 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9195 \let\@xfootnotenext\bidipoem@p@xftntext%
9196 \let\@xfootnote\bidipoem@p@xfootnote%
9197 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9198 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9199 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9200 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9201 \color@begingroup}
9202 \gdef\@stopfield{%
9203 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9204 \gdef\@contfield{%
9205 \global\setbox\@curfield\hbox\bgroup%
9206 \let\@footnotetext\bidipoem@p@ftntext%
9207 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9208 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9209 \let\@xfootnotenext\bidipoem@p@xftntext%
9210 \let\@xfootnote\bidipoem@p@xfootnote%
9211 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9212 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9213 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9214 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%

```



```
9215 \color@begingroup\unhbox\@curfield}
```

## 62 File boek3-xetex-bidi.def

```
9216 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeTeX]
9217 \renewenvironment{theindex}{%
9218   \if@twocolumn
9219     \@restonecolfalse
9220   \else
9221     \@restonecoltrue
9222   \fi
9223   \columnseprule \z@
9224   \columnsep 35\p@
9225   \twocolumn[\@makeschapterhead{\indexname}]%
9226   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9227   \thispagestyle{plain}\parindent\z@
9228   \parskip\z@ \@plus .3\p@\relax
9229   \let\item\@idxitem
9230 }{%
9231   \if@restonecol\onecolumn\else\clearpage\fi}
9232 \renewcommand*{head@style}{%
9233   \interlinepenalty \@M
9234   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9235   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9236 \renewcommand*{\regtocline}[3]{%
9237   \ifnum #1>\c@tocdepth
9238   \else
9239     \vskip\z@\@plus.2\p@
9240     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9241     \if@RTL\rightskip\else\leftskip\fi\unitindent
9242     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9243     \parfillskip\z@
9244     \@tempdima\unitindent
9245     \parindent\z@
9246     \leavevmode
9247     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9248     \hskip 1em \nobreak{\slshape #3}\par
9249   }%
9250 \fi}
9251 \if@oldtoc
9252 \renewcommand*\l@part[2]{%
9253   \ifnum \c@tocdepth >-2\relax
9254     \addpenalty{-\@highpenalty}%
9255     \addvspace{2.25em \@plus\p@}%
9256     \begingroup
9257       \setlength\@tempdima{3em}%
9258       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9259       \parfillskip -\@pnumwidth
9260       {\leavevmode
9261         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9262       \nobreak
9263       \global\@nobreaktrue
9264       \everypar{\global\@nobreakfalse\everypar{}}%
9265     \endgroup
```



```

9266 \fi}
9267 \else
9268 \renewcommand*\l@part{%
9269 \ifnum \c@tocdepth >-2\relax
9270 \addpenalty{-\@highpenalty}%
9271 \addvspace{2.25em \@plus \p@}%
9272 \@regtocline{0}%
9273 \fi}
9274 \fi
9275 \if@oldtoc
9276 \renewcommand*\l@chapter[2]{%
9277 \addpenalty{-\@highpenalty}%
9278 \vskip 1.0em \@plus\p@
9279 \setlength\@tempdima{1.5em}%
9280 \begingroup
9281 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9282 \parfillskip -\@pnumwidth
9283 \leavevmode \bfseries
9284 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9285 \hskip -\if@RTL\rightskip\else\leftskip\fi
9286 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9287 \penalty\@highpenalty
9288 \endgroup}
9289 \else
9290 \renewcommand*\l@chapter{\@regtocline{0}}
9291 \fi
9292 \renewenvironment{abstract}{%
9293 \titlepage
9294 \null\vfil
9295 \section*\SectFont \abstractname}
9296 \noindent\ignorespaces}
9297 {\par\vfil\null\endtitlepage}
9298 \renewenvironment{thebibliography}[1]
9299 {\chapter*\bibname}%
9300 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9301 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9302 \bidi@thebibliography@font@hook%
9303 \list{\@biblabel{\@arabic\c@enumiv}}%
9304 {\settowidth\labelwidth{\@biblabel{#1}}%
9305 \leftmargin\labelwidth
9306 \advance\leftmargin\labelsep
9307 \@openbib@code
9308 \usecounter{enumiv}%
9309 \let\p@enumiv\@empty
9310 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9311 \sloppy\clubpenalty4000\widowpenalty4000%
9312 \sfcode\.\@m}
9313 {\def\@noitemerr
9314 {\@latex@warning{Empty `thebibliography' environment}}}%
9315 \endlist}
9316 \renewcommand*\left@footnoterule{%
9317 \kern-3\p@
9318 \kern.5\baselineskip
9319 \hrule\@width\unitindent

```



```

9320 \kern.4\baselineskip
9321 }
9322 \renewcommand*\right@footnoterule{%
9323 \kern-3\p@
9324 \kern.5\baselineskip
9325 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9326 \kern.4\baselineskip}
9327 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9328 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9329 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9330 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9331 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9332 \renewcommand*\theequation{%
9333 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9334 \renewcommand*\thefigure{%
9335 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9336 \renewcommand*\thetable{%
9337 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9338 \renewcommand*\maketitle{%
9339 \begin{titlepage}%
9340 \let\footnotesize\small
9341 \let\right@footnoterule\relax
9342 \let\left@footnoterule\relax
9343 \let\textwidth\footnoterule\relax
9344 \let \footnote \thanks
9345 \long\def\@makefnmark##1{\parindent\z@
9346 \def\labelitemi{\textendash}\@revelabeltrue
9347 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9348 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9349 \if@compatibility\setcounter{page}{0}\fi
9350 \null\vfil
9351 \vskip 60\p@
9352 \begin{center}%
9353 \TitleFont
9354 {\LARGE \def\{\{\penalty -\@M}
9355 \if@allcaps
9356 \expandafter\uc@nothanks\@title\thanks\relax
9357 \else
9358 \@title
9359 \fi\par}%
9360 \vskip 3em%
9361 {\large
9362 \lineskip .75em \parindent\z@
9363 \begin{tabular}[t]{c}%
9364 \if@allcaps
9365 \expandafter\uc@authornothanks\@author\and\relax
9366 \else
9367 \@author
9368 \fi
9369 \end{tabular}\par}%
9370 \vskip 1.5em%
9371 {\large
9372 \if@allcaps
9373 \uppercase\expandafter{\@date}%

```



```

9374     \else
9375         \@date
9376     \fi\par}%
9377     \end{center}\par
9378     \@thanks
9379     \vfil\null
9380 \end{titlepage}%
9381 \setcounter{footnote}{0}%
9382 \global\let\thanks\relax
9383 \global\let\maketitle\relax
9384 \global\let\@thanks\@empty
9385 \global\let\@author\@empty
9386 \global\let\@title\@empty
9387 \global\let\@date\@empty
9388 \global\let\title\relax
9389 \global\let\author\relax
9390 \global\let\date\relax
9391 \global\let\and\relax
9392 }

```

## 63 File boek-xetex-bidi.def

```

9393 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9394 \renewenvironment{theindex}{%
9395     \if@twocolumn
9396         \@restonecolfalse
9397     \else
9398         \@restonecoltrue
9399     \fi
9400     \columnseprule \z@
9401     \columnsep 35\p@
9402     \twocolumn[\@makeschapterhead{\indexname}]%
9403     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9404     \thispagestyle{plain}\parindent\z@
9405     \parskip\z@ \@plus .3\p@\relax
9406     \let\item\@idxitem
9407 }{%
9408     \if@restonecol\onecolumn\else\clearpage\fi}
9409 \renewcommand*{\head@style}{%
9410     \interlinepenalty \@M
9411     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9412     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9413 \renewcommand*{\regtocline}[3]{%
9414     \ifnum #1>\c@tocdepth
9415     \else
9416         \vskip\z@\@plus.2\p@
9417         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9418         \if@RTL\rightskip\else\leftskip\fi\unitindent
9419         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9420         \parfillskip\z@
9421         \@tempdima\unitindent
9422         \parindent\z@
9423         \leavevmode
9424         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak

```



```

9425     \hskip 1em \nobreak{\slshape #3}\par
9426     }%
9427 \fi}
9428 \if@oldtoc
9429 \renewcommand*\l@part[2]{%
9430   \ifnum \c@tocdepth >-2\relax
9431     \addpenalty{-\@highpenalty}%
9432     \addvspace{2.25em \@plus\p@}%
9433     \begingroup
9434       \setlength\@tempdima{3em}%
9435       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9436       \parfillskip -\@pnumwidth
9437       {\leavevmode
9438         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9439         \nobreak
9440         \global\@nobreaktrue
9441         \everypar{\global\@nobreakfalse\everypar{}}%
9442     \endgroup
9443 \fi}
9444 \else
9445   \renewcommand*\l@part{%
9446     \ifnum \c@tocdepth >-2\relax
9447       \addpenalty{-\@highpenalty}%
9448       \addvspace{2.25em \@plus \p@}%
9449       \@regtocline{0}%
9450     \fi}
9451 \fi
9452 \if@oldtoc
9453 \renewcommand*\l@chapter[2]{%
9454   \addpenalty{-\@highpenalty}%
9455   \vskip 1.0em \@plus\p@
9456   \setlength\@tempdima{1.5em}%
9457   \begingroup
9458   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9459   \parfillskip -\@pnumwidth
9460   \leavevmode \bfseries
9461   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9462   \hskip -\if@RTL\rightskip\else\leftskip\fi
9463   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9464   \penalty\@highpenalty
9465 \endgroup}
9466 \else
9467 \renewcommand*\l@chapter{\@regtocline{0}}
9468 \fi
9469 \renewcommand*\left@footnoterule{%
9470   \kern-3\p@
9471   \kern.5\baselineskip
9472   \hrule\@width\unitindent
9473   \kern.4\baselineskip
9474 }
9475 \renewcommand*\right@footnoterule{%
9476   \kern-3\p@
9477   \kern.5\baselineskip
9478   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```





```

9479 \kern.4\baselineskip}
9480 \renewenvironment{abstract}{%
9481     \titlepage
9482     \null\vfil
9483     \section*{\SectFont \abstractname}
9484     \noindent\ignorespaces}
9485     {\par\vfil\null\endtitlepage}
9486 \renewenvironment{thebibliography}[1]
9487     {\chapter*{\bibname}%
9488     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9489     \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLBibitems\RTLtrue\else\fi\fi
9490     \bidi@thebibliography@font@hook%
9491     \list{\biblabel{\@arabic\c@enumiv}}%
9492         {\settowidth\labelwidth{\biblabel{#1}}%
9493         \leftmargin\labelwidth
9494         \advance\leftmargin\labelsep
9495         \@openbib@code
9496         \usecounter{enumiv}%
9497         \let\p@enumiv\@empty
9498         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9499     \sloppy\clubpenalty4000\widowpenalty4000%
9500     \sfcode`. \@m}
9501     {\def\@noitemerr
9502     {\@latex@warning{Empty `thebibliography' environment}}}%
9503     \endlist}
9504 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9505 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9506 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9507 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9508 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9509 \renewcommand*\theequation{%
9510 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9511 \renewcommand*\thefigure{%
9512 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9513 \renewcommand*\thetable{%
9514 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9515 \renewcommand*\maketitle{%
9516 \begin{titlepage}%
9517     \let\footnotesize\small
9518     \let\right@footnoterule\relax
9519     \let\left@footnoterule\relax
9520     \let\textwidth@footnoterule\relax
9521     \let \footnote \thanks
9522     \long\def\@makefnmark##1{\parindent\z@
9523     \def\labelitemi{\textendash}\@revlabeltrue
9524     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9525 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9526 \if@compatibility\setcounter{page}{0}\fi
9527 \null\vfil
9528 \vskip 60\p@
9529 \begin{center}%
9530     \TitleFont
9531     {\LARGE \def\{\penalty -\@M}
9532     \if@allcaps

```



```

9533     \expandafter\uc@nothanks\@title\thanks\relax
9534     \else
9535         \@title
9536     \fi\par}%
9537 \vskip 3em%
9538 {\large
9539     \lineskip .75em \parindent\z@
9540     \begin{tabular}[t]{c}%
9541         \if@allcaps
9542             \expandafter\uc@authornothanks\@author\and\relax
9543         \else
9544             \@author
9545         \fi
9546     \end{tabular}\par}%
9547 \vskip 1.5em%
9548 {\large
9549     \if@allcaps
9550         \uppercase\expandafter{\@date}%
9551     \else
9552         \@date
9553     \fi\par}%
9554 \end{center}\par
9555 \@thanks
9556 \vfil\null
9557 \end{titlepage}%
9558 \setcounter{footnote}{0}%
9559 \global\let\thanks\relax
9560 \global\let\maketitle\relax
9561 \global\let\@thanks\@empty
9562 \global\let\@author\@empty
9563 \global\let\@title\@empty
9564 \global\let\@date\@empty
9565 \global\let\title\relax
9566 \global\let\author\relax
9567 \global\let\date\relax
9568 \global\let\and\relax
9569 }

```

## 64 File `bookest-xetex-bidi.def`

```

9570 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9571 \def\@makechapterhead#1{%
9572     \vspace*{20\p@}
9573     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9574         \ifnum \c@secnumdepth >\m@ne
9575             \if@mainmatter
9576                 {\colorA\huge\scshape \@chapapp\space \thechapter}
9577                 \par\nobreak
9578                 \vskip 10\p@
9579             \fi
9580         \fi
9581         \interlinepenalty\@M
9582     {\colorB\hrule}
9583     \vskip 15\p@

```



```

9584 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9585   {\colorA\Huge \bfseries #1}\par\nobreak
9586 \if@RTL\end{flushleft}\else\end{flushright}\fi
9587 \vskip 5\p@
9588 {\colorB\hrule}
9589 \vskip 30\p@
9590 }}
9591 \def\@makeschapterhead#1{%
9592   \vspace*{20\p@}
9593   {\parindent \z@ \raggedright \normalfont
9594     {\colorB\hrule}
9595     \vskip 15\p@
9596     \begin{center}
9597       {\colorA\Huge \bfseries #1}\par\nobreak
9598     \end{center}
9599     \vskip 5\p@
9600     {\colorB\hrule}
9601     \vskip 30\p@
9602   }}

```

## 65 File book-xetex-bidi.def

```

9603 \ProvidesFile{book-xetex-bidi.def}[2025/01/03 v1.1 bidi adaptations for standard book class]
9604 \renewenvironment{theindex}
9605   {\if@twocolumn
9606     \@restonecolfalse
9607   \else
9608     \@restonecoltrue
9609   \fi
9610   \columnseprule \z@
9611   \columnsep 35\p@
9612   \twocolumn[\@makeschapterhead{\indexname}]%
9613   \@mkboth{\MakeUppercase\indexname}%
9614     {\MakeUppercase\indexname}%
9615   \thispagestyle{plain}\parindent\z@
9616   \parskip\z@ \@plus .3\p@\relax
9617   \let\item\@idxitem}
9618   {\if@restonecol\onecolumn\else\clearpage\fi}
9619 \IfClassLoadedF{bookest}{%
9620   \if@titlepage
9621   \renewcommand\maketitle{\begin{titlepage}%
9622     \let\footnotesize\small
9623     \let\right@footnoterule\relax
9624     \let\left@footnoterule\relax
9625     \let\textwidth@footnoterule\relax
9626     \let \footnote \thanks
9627     \let \LTRfootnote \LTRthanks
9628     \let \RTLfootnote \RTLthanks
9629     \null\vfil
9630     \vskip 60\p@
9631     \begin{center}%
9632       {\LARGE \@title \par}%
9633       \vskip 3em%
9634       {\large

```



```

9635     \lineskip .75em%
9636     \begin{tabular}[t]{c}%
9637         \@author
9638     \end{tabular}\par}%
9639     \vskip 1.5em%
9640     {\large \@date \par}%           % Set date in \large size.
9641 \end{center}\par
9642 \@thanks
9643 \vfil\null
9644 \end{titlepage}%
9645 \setcounter{footnote}{0}%
9646 \global\let\thanks\relax
9647 \global\let\LTRthanks\relax
9648 \global\let\RTLthanks\relax
9649 \global\let\maketitle\relax
9650 \global\let\@thanks\@empty
9651 \global\let\@author\@empty
9652 \global\let\@date\@empty
9653 \global\let\@title\@empty
9654 \global\let\title\relax
9655 \global\let\author\relax
9656 \global\let\date\relax
9657 \global\let\and\relax
9658 }
9659 \else
9660 \renewcommand\maketitle{\par
9661 \begingroup
9662     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9663     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9664     \long\def\@makefntext##1{\parindent 1em\noindent
9665         \hb@xt@1.8em{%
9666             \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9667     \if@twocolumn
9668         \ifnum \col@number=\@ne
9669             \@maketitle
9670         \else
9671             \twocolumn[\@maketitle]%
9672         \fi
9673     \else
9674         \newpage
9675         \global\@topnum\z@ % Prevents figures from going at top of page.
9676         \@maketitle
9677     \fi
9678     \thispagestyle{plain}\@thanks
9679 \endgroup
9680 \setcounter{footnote}{0}%
9681 \global\let\thanks\relax
9682 \global\let\LTRthanks\relax
9683 \global\let\RTLthanks\relax
9684 \global\let\maketitle\relax
9685 \global\let\@maketitle\relax
9686 \global\let\@thanks\@empty
9687 \global\let\@author\@empty
9688 \global\let\@date\@empty

```



```

9689 \global\let\@title\@empty
9690 \global\let\title\relax
9691 \global\let\author\relax
9692 \global\let\date\relax
9693 \global\let\and\relax
9694 }
9695 \def\@maketitle{%
9696 \newpage
9697 \null
9698 \vskip 2em%
9699 \begin{center}%
9700 \let \footnote \thanks
9701 \let \LTRfootnote \LTRthanks
9702 \let \RTLfootnote \RTLthanks
9703 {\LARGE \@title \par}%
9704 \vskip 1.5em%
9705 {\large
9706 \lineskip .5em%
9707 \begin{tabular}[t]{c}%
9708 \@author
9709 \end{tabular}\par}%
9710 \vskip 1em%
9711 {\large \@date}%
9712 \end{center}%
9713 \par
9714 \vskip 1.5em}
9715 \fi}
9716 \renewcommand*\l@part[2]{%
9717 \ifnum \c@tocdepth >-2\relax
9718 \addpenalty{-\@highpenalty}%
9719 \addvspace{2.25em \@plus\p@}%
9720 \setlength\@tempdima{3em}%
9721 \begingroup
9722 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9723 \parfillskip -\@pnumwidth
9724 {\leavevmode
9725 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9726 \nobreak
9727 \global\@nobreaktrue
9728 \everypar{\global\@nobreakfalse\everypar{}}%
9729 \endgroup
9730 \fi}
9731 \renewcommand*\l@chapter[2]{%
9732 \ifnum \c@tocdepth >\m@ne
9733 \addpenalty{-\@highpenalty}%
9734 \vskip 1.0em \@plus\p@
9735 \setlength\@tempdima{1.5em}%
9736 \begingroup
9737 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9738 \parfillskip -\@pnumwidth
9739 \leavevmode \bfseries
9740 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9741 \hskip -\if@RTL\rightskip\else\leftskip\fi
9742 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```



```

9743     \penalty\@highpenalty
9744     \endgroup
9745     \fi}
9746 \renewcommand\left@footnoterule{%
9747     \kern-3\p@
9748     \hrule\@width.4\columnwidth
9749     \kern2.6\p@}
9750 \renewcommand\right@footnoterule{%
9751     \kern-3\p@
9752     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9753     \kern2.6\p@}
9754 \renewcommand\theequation
9755     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9756 \renewcommand \thefigure
9757     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9758 \renewcommand \thetable
9759     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9760 \renewcommand \thechapter {\@arabic\c@chapter}
9761 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9762 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9763 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9764 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9765 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9766 \def\@makechapterhead#1{%
9767     \vspace*{50\p@}%
9768     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9769     \ifnum \c@secnumdepth >\m@ne
9770         \if@mainmatter
9771             \huge\bfseries \@chapapp\space \thechapter
9772             \par\nobreak
9773             \vskip 20\p@
9774         \fi
9775         \fi
9776         \interlinepenalty\@M
9777         \Huge \bfseries #1\par\nobreak
9778         \vskip 40\p@
9779     }}
9780 \def\@makeschapterhead#1{%
9781     \vspace*{50\p@}%
9782     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9783     \normalfont
9784     \interlinepenalty\@M
9785     \Huge \bfseries #1\par\nobreak
9786     \vskip 40\p@
9787     }}
9788 \renewcommand\backmatter{%
9789     \if@openright
9790         \cleardoublepage
9791     \else
9792         \clearpage
9793     \fi
9794     \@mainmatterfalse}
9795 \renewenvironment{thebibliography}[1]
9796     {\chapter*{\bibname}%

```



```

9797     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9798     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9799     \bidi@thebibliography@font@hook%
9800     \list{\@biblabel{\@arabic\c@enumiv}}%
9801         {\settoheight\labelwidth{\@biblabel{#1}}%
9802         \leftmargin\labelwidth
9803         \advance\leftmargin\labelsep
9804         \@openbib@code
9805         \usecounter{enumiv}}%
9806         \let\p@enumiv\@empty
9807         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9808     \sloppy
9809     \clubpenalty4000
9810     \@clubpenalty \clubpenalty
9811     \widowpenalty4000%
9812     \sfcode\.\@m}
9813     {\def\@noitemerr
9814         {\@latex@warning{Empty `thebibliography' environment}}}%
9815     \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9816 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9817 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9818 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9819 \if@noskipsec \leavevmode \fi
9820 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9821 \if\eq@group\else\eq@prelim\fi
9822 \setkeys{breqn}{#1}%
9823 \the\eqstyle
9824 \eq@setnumber
9825 \begin@group
9826 \eq@setup@a
9827 \eq@startup
9828 }
9829 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9830 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9831 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9832 \global\let\GRP@label\@empty
9833 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9834 \global\grp@linewidth\z@\global\grp@wdNum\z@
9835 \global\let\grp@eqs@numbered\@False
9836 \global\let\grp@aligned\@True
9837 \global\let\grp@shiftnumber\@False
9838 \eq@prelim
9839 \setkeys{breqn}{#1}%
9840 \if\grp@hasNumber \grp@setnumber \fi
9841 }
9842 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9843 \let\display@setup\dseries@display@setup
9844 % Question: should this be the default for dseries???
9845 \global\eq@wdCond\z@
9846 \@dmath[layout={M},#1]%
9847 \mathsurround\z@\@math \penalty\@Mi

```



```

9848 \let\endmath\ends@math
9849 \def\premath{%
9850   \ifdim\lastskip<.3em \unskip
9851   \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9852 }%
9853 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9854 \ignorespaces
9855 }
9856 \def\eqnumform#1{\if@nonlatin\beginR\RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9857 \renewenvironment{dsuspend}{%
9858   \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9859   \parshape 1 \displayindent \displaywidth\relax
9860   \hsize=\columnwidth \noindent\ignorespaces
9861 }{%
9862   \par\egroup
9863   \global\setbox\GRP@box\vbox{%
9864     \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9865     \unvbox\GRP@box
9866   }%
9867   \global\GRP@queue\@xp{\the\GRP@queue
9868     \@elt{\let\eq@isIntertext\@True}}%
9869   }%
9870 }

```

## 67 File calcs-xetex-bidi.def

```

9871 \ProvidesFile{calcs-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for calcs package for XeTeX]
9872 \renewcommand\calcs@setup@alignment[1]{%
9873 \if c#1\relax \calcs@vfillAdd \leftskip \calcs@vfillAdd \rightskip \fi
9874 \if l#1\relax \calcs@vfillDrop\leftskip \calcs@vfillDrop\rightskip \fi
9875 \if r#1\relax \calcs@vfillAdd \leftskip \calcs@vfillDrop\rightskip \fi
9876 }
9877 \renewcommand\calcs@table@alignment{\if@RTLtab r\else l\fi}
9878 \renewenvironment{calstable}[1][\calcs@table@alignment]{%
9879 \if@RTLtab\calcs@activate@rtl\fi
9880 \let\calcs@thead@tokens=\relax
9881 \let\calcs@tfoot@tokens=\relax
9882 \let\calcs@tbody@tokens=\relax
9883 \calcs@tfoot@height=0pt \relax
9884 \let\calcs@last@context=n%
9885 \let\calcs@current@context=b%
9886 \parindent=0pt \relax%
9887 \calcs@setup@alignment{#1}%
9888 \calcs@setpadding{Ag}\calcs@setcellprevdepth{Al}\calcs@set@tohsize%
9889 }% Alignment inside is independent on center/flushright outside
9890 \parfillskip=0pt plus1fil\relax
9891 \let\calcs@borderL=\relax
9892 \let\calcs@borderR=\relax
9893 \let\calcs@borderT=\relax
9894 \let\calcs@borderB=\relax
9895 \setbox\calcs@backup@row=\box\voidb@x\relax
9896 \calcs@AtBeginTable
9897 }{% End of the table
9898 \calcs@tfoot@tokens\lastrule\calcs@AtEndTable}

```





```

9899 \renewcommand\alignL{%
9900 \if@RTLtab
9901 \cals@vfillAdd\cals@paddingL
9902 \else
9903 \cals@vfillDrop\cals@paddingL
9904 \fi
9905 \cals@vfillDrop\cals@paddingR}
9906 \renewcommand\alignR{%
9907 \if@RTLtab
9908 \cals@vfillDrop\cals@paddingL
9909 \else
9910 \cals@vfillAdd\cals@paddingL
9911 \fi
9912 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9913 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9914 \let\makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9915 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9916 \renewcommand*\caption@par{%
9917 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9918 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9919 \def\CT@setup{%
9920 \@tempdimb\col@sep
9921 \@tempdimc\col@sep
9922 \def\CT@color{%
9923 \global\let\CT@do@color\CT@@do@color
9924 \bidicolor}}
9925 \def\@classz{\@classx
9926 \@tempcnta \count@
9927 \prepnext@tok
9928 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9929 \@addtopreamble{\if@RTLtab\beginL\fi%
9930 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9931 \ifcase \@chnum
9932 \hskip\stretch{.5}\kern\z@
9933 \dollarbegin
9934 \insert@column
9935 \dollarend\hskip\stretch{.5}\or
9936 \dollarbegin \insert@column \dollarend \hfill \or
9937 \hfill\kern\z@ \dollarbegin \insert@column \dollarend \or
9938 $\vcenter
9939 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9940 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9941 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9942 \fi
9943 \if@RTLtab\endR\fi\egroup\egroup

```



```

9944 \begingroup
9945 \CT@setup
9946 \CT@column@color
9947 \CT@row@color
9948 \CT@cell@color
9949 \CT@do@color
9950 \endgroup
9951 \@tempdima\ht\z@
9952 \advance\@tempdima\minrowclearance
9953 \vrule\@height\@tempdima\@width\z@
9954 \unhbox\z@\if@RTLtab\endL\fi}%
9955 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9956 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9957 \long\def\color@b@x#1#2#3{%
9958 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9959 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9960 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9961 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9962 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9963 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9964 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9965 \DeclareRobustCommand\color{%
9966 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]
9967 \def\@declaredcolor#1{%
9968 \@ifundefined{\string\color @#1}%
9969 {\c@lor@error{`#1'}}%
9970 {\expandafter\let\expandafter\current@color
9971 \csname\string\color @#1\endcsname
9972 \set@color}%
9973 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9974 \def\@undeclaredcolor[#1]#2{%
9975 \@ifundefined{color@#1}%
9976 {\c@lor@error{model `#1'}}%
9977 {\csname color@#1\endcsname\current@color{#2}%
9978 \set@color}%
9979 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9980 \DeclareRobustCommand\bidicolor{%
9981 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]
9982 \def\@bidiundeclaredcolor[#1]#2{%
9983 \@ifundefined{color@#1}%
9984 {\c@lor@error{model `#1'}}%
9985 {\csname color@#1\endcsname\current@color{#2}%
9986 \set@color}%
9987 \ignorespaces}
9988 \def\@bidideclaredcolor#1{%
9989 \@ifundefined{\string\color @#1}%
9990 {\c@lor@error{`#1'}}%
9991 {\expandafter\let\expandafter\current@color
9992 \csname\string\color @#1\endcsname
9993 \set@color}%
9994 \ignorespaces}

```



```

9995 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9996 \def\color@fbox#1#2#3{%
9997   \color@b@x{\fboxsep#2\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
9998 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

## 72 File combine-xetex-bidi.def

```

9999 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10000 \renewcommand{\c@ll@chapsecii}[2]{%
10001   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10002   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10003   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10004 }
10005 \renewcommand{\c@ll@chapseci}{%
10006   \setlength\@tempdima{0em}%
10007   \begingroup
10008     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10009     \parfillskip -\@pnumwidth
10010     \leavevmode
10011 }
10012 \renewenvironment{tocindent}[1]{%
10013   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

10014 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10015 \IfClassLoadedT{memoir}{\endinput}
10016 \RequirePackage{graphicx}
10017 \renewcommand*\CROP@ulc{%
10018   \if@RTLmain%
10019     \begin{picture}(0,0)
10020       \unitlength\p@\thinlines
10021       \put(-40,0){\circle{10}}
10022       \put(-30,-5){\line(0,1){10}}
10023       \put(-35,0){\line(1,0){30}}
10024       \put(-10,30){\circle{10}}
10025       \put(-5,30){\line(1,0){10}}
10026       \put(0,35){\line(0,-1){30}}
10027     \end{picture}%
10028   \else%
10029     \begin{picture}(0,0)
10030       \unitlength\p@\thinlines
10031       \put(-30,0){\circle{10}}
10032       \put(-30,-5){\line(0,1){10}}
10033       \put(-35,0){\line(1,0){30}}
10034       \put(0,30){\circle{10}}
10035       \put(-5,30){\line(1,0){10}}
10036       \put(0,35){\line(0,-1){30}}
10037     \end{picture}%
10038   \fi%
10039 }
10040 \renewcommand*\CROP@urc{%
10041   \if@RTLmain%
10042     \begin{picture}(0,0)

```



```

10043     \unitlength\p@\thinlines
10044     \put(20,0){\circle{10}}
10045     \put(30,-5){\line(0,1){10}}
10046     \put(35,0){\line(-1,0){30}}
10047     \put(-10,30){\circle{10}}
10048     \put(-5,30){\line(1,0){10}}
10049     \put(0,35){\line(0,-1){30}}
10050     \end{picture}%
10051     \else%
10052     \begin{picture}(0,0)
10053         \unitlength\p@\thinlines
10054         \put(30,0){\circle{10}}
10055         \put(30,-5){\line(0,1){10}}
10056         \put(35,0){\line(-1,0){30}}
10057         \put(0,30){\circle{10}}
10058         \put(-5,30){\line(1,0){10}}
10059         \put(0,35){\line(0,-1){30}}
10060     \end{picture}%
10061     \fi%
10062 }
10063 \renewcommand*\CROP@llc{%
10064     \if@RTLmain%
10065         \begin{picture}(0,0)
10066             \unitlength\p@\thinlines
10067             \put(-40,0){\circle{10}}
10068             \put(-30,-5){\line(0,1){10}}
10069             \put(-35,0){\line(1,0){30}}
10070             \put(-10,-30){\circle{10}}
10071             \put(-5,-30){\line(1,0){10}}
10072             \put(0,-35){\line(0,1){30}}
10073         \end{picture}%
10074     \else%
10075     \begin{picture}(0,0)
10076         \unitlength\p@\thinlines
10077         \put(-30,0){\circle{10}}
10078         \put(-30,-5){\line(0,1){10}}
10079         \put(-35,0){\line(1,0){30}}
10080         \put(0,-30){\circle{10}}
10081         \put(-5,-30){\line(1,0){10}}
10082         \put(0,-35){\line(0,1){30}}
10083     \end{picture}%
10084     \fi%
10085 }
10086 \renewcommand*\CROP@lrc{%
10087     \if@RTLmain%
10088         \begin{picture}(0,0)
10089             \unitlength\p@\thinlines
10090             \put(20,0){\circle{10}}
10091             \put(30,-5){\line(0,1){10}}
10092             \put(35,0){\line(-1,0){30}}
10093             \put(-10,-30){\circle{10}}
10094             \put(-5,-30){\line(1,0){10}}
10095             \put(0,-35){\line(0,1){30}}
10096         \end{picture}%

```



```

10097 \else%
10098 \begin{picture}(0,0)
10099 \unitlength\p@\thinline
10100 \put(30,0){\circle{10}}
10101 \put(30,-5){\line(0,1){10}}
10102 \put(35,0){\line(-1,0){30}}
10103 \put(0,-30){\circle{10}}
10104 \put(-5,-30){\line(1,0){10}}
10105 \put(0,-35){\line(0,1){30}}
10106 \end{picture}%
10107 \fi%
10108 }
10109 \@ifpackagewith{crop}{cam}{%
10110 \CROP@execopt{cam}%
10111 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10112 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10113 \renewcommand*{\c@twcompctr}[2]{%
10114 \def\c@twfirst{1}
10115 \loop\advance\c@twinlines\m@ne
10116 \setbox\c@twslicea=\vsplit#1 to\baselineskip
10117 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10118 \c@twprune{\c@twslicea}{\c@twlftside}%
10119 \c@twprune{\c@twsliceb}{\c@twrtside}%
10120 \ifnum\c@twfirst=\@ne
10121 \setbox#2=\vbox{\unvbox#2\hbox
10122 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}\pageinwindow\hfil\if@RTL\box\c@tw
10123 \else
10124 \setbox#2=\vbox{\unvbox#2\hbox
10125 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}\hfil\if@RTL\box\c@twslicea\else\
10126 \fi
10127 \def\c@twfirst{2}
10128 \ifnum\c@twinlines>\z@\repeat}
10129 \renewcommand*{\c@twcompodctr}[2]{%
10130 \def\c@twrounds{1}
10131 \def\c@twfirst{1}
10132 \@for\c@twlspec:=\c@twb\do{%
10133 \ifnum\c@twrounds=1
10134 \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10135 \c@twprune{\c@twslicea}{\c@twlspec}%
10136 \def\c@twrounds{2}
10137 \else
10138 \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10139 \c@twprune{\c@twsliceb}{\c@twlspec}%
10140 \ifnum\c@twfirst=1
10141 \setbox#2=\vbox{\unvbox#2\hbox
10142 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}\hfil\picinwindow\hfil\if@RTL
10143 \def\c@twfirst{2}
10144 \else
10145 \setbox#2=\vbox{\unvbox#2\hbox
10146 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}\hfil\if@RTL\box\c@twslicea\el
10147 \fi

```



```

10148     \def\c@twounds{1}
10149     \fi}}

```

## 75 File cuted-xetex-bidi.def

```

10150 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10151
10152 \def\RTL@outputdblcol{%
10153   \if@firstcolumn
10154     \global\@firstcolumnfalse
10155     \global\setbox\@leftcolumn\copy\@outputbox
10156     \splitmaxdepth\maxdimen
10157     \vbadness\maxdimen
10158     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10159     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10160     \toks@\expandafter{\topmark}%
10161     \xdef\@firstcoltopmark{\the\toks@}%
10162     \toks@\expandafter{\splitfirstmark}%
10163     \xdef\@firstcolfirstmark{\the\toks@}%
10164     \ifx\@firstcolfirstmark\@empty
10165       \global\let\@setmarks\relax
10166     \else
10167       \gdef\@setmarks{%
10168         \let\firstmark\@firstcolfirstmark
10169         \let\topmark\@firstcoltopmark}%
10170     \fi
10171   \else
10172     \global\@firstcolumntrue
10173     \setbox\@outputbox\vbox{%
10174       \hb@xt@\textwidth{%
10175         \hskip \columnwidth
10176         \hfil
10177         {\normalcolor\vrule \@width\columnseprule}%
10178         \hfil
10179         \hb@xt@\columnwidth{%
10180           \bidi@firstcolumn@status@write%
10181           \box\@leftcolumn \hss}%
10182         \hskip -\textwidth
10183         \hb@xt@\columnwidth{%
10184           \bidi@lastcolumn@status@write%
10185           \box\@outputbox \hss}%
10186         \hskip \columnsep
10187         \hskip \columnwidth }}%
10188     \ifvoid\hold@viper
10189     \else
10190       \setbox\@outputbox \vbox to\textheight{%
10191         \box\hold@viper
10192         \box\@outputbox
10193         \vss
10194       }%
10195     \fi
10196   \@combinedblfloats
10197   \@setmarks
10198   \@outputpage

```



```

10199 \begingroup
10200 \@dblfloatplacement
10201 \@startdblcolumn
10202 \@whilesw\if@colmade \fi{\@outputpage
10203 \@startdblcolumn}%
10204 \ifvoid\@viper
10205 \else
10206 \global\setbox\@viper\vbox{%
10207 \vskip-\stripsep
10208 \unvbox\@viper
10209 }%
10210 \@viperoutput
10211 \fi
10212 \endgroup
10213 \fi}%
10214
10215 \def\LTR@outputdblcol{%
10216 \if@firstcolumn
10217 \global\@firstcolumnfalse
10218 \global\setbox\@leftcolumn\copy\@outputbox
10219 \splitmaxdepth\maxdimen
10220 \vbadness\maxdimen
10221 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10222 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10223 \toks@\expandafter{\topmark}%
10224 \xdef\@firstcoltopmark{\the\toks@}%
10225 \toks@\expandafter{\splitfirstmark}%
10226 \xdef\@firstcolfirstmark{\the\toks@}%
10227 \ifx\@firstcolfirstmark\@empty
10228 \global\let\@setmarks\relax
10229 \else
10230 \gdef\@setmarks{%
10231 \let\firstmark\@firstcolfirstmark
10232 \let\topmark\@firstcoltopmark}%
10233 \fi
10234 \else
10235 \global\@firstcolumntrue
10236 \setbox\@outputbox\vbox{%
10237 \hb@xt@\textwidth{%
10238 \hb@xt@\columnwidth{%
10239 \bidi@firstcolumn@status@write%
10240 \box\@leftcolumn \hss}%
10241 \hfil
10242 {\normalcolor\vrule \@width\columnseprule}%
10243 \hfil
10244 \hb@xt@\columnwidth{%
10245 \bidi@lastcolumn@status@write%
10246 \box\@outputbox \hss}}}%
10247 \ifvoid\hold@viper
10248 \else
10249 \setbox\@outputbox \vbox to\textheight{%
10250 \box\hold@viper
10251 \box\@outputbox
10252 \vss

```



```

10253             }%
10254     \fi
10255 \combinedblfloats
10256   \setmarks
10257   \outputpage
10258   \begingroup
10259     \dblfloatplacement
10260     \startdblcolumn
10261     \whiles\if@colmade \fi{\@outputpage
10262   \startdblcolumn}%
10263   \ifvoid\viper
10264   \else
10265     \global\setbox\viper\vbox{%
10266       \vskip-\stripsep
10267       \unvbox\viper
10268     }%
10269   \@viperoutput
10270   \fi
10271 \endgroup
10272 \fi}%
10273
10274 \def\@addviper{%
10275   \insertfalse
10276   \def\var@thecol@num{2}%
10277   \if@firstcolumn
10278     \def\var@thecol@num{1}%
10279     \@reqcolroom=.5\@pageht
10280     \ht\viper=\@reqcolroom
10281     \advance\@reqcolroom by\ht\viper
10282     \advance\@reqcolroom by\stripsep
10283   \else
10284     \@reqcolroom=\colht
10285     \advance\@reqcolroom by\@pageht
10286     \ht\viper.5\@reqcolroom
10287     \@reqcolroom=\ht\viper
10288     \advance\@reqcolroom by\ht\viper
10289     \advance\@reqcolroom by\stripsep
10290     \global\setbox\@holdpg\vbox{%
10291       \setbox\cuted@tempbox@a\vbox{%
10292         \aftergroup\unvbox
10293         \unvcopy\@leftcolumn
10294         \unskip\unkern\unpenalty
10295         \setbox\@tempbox@a\lastbox
10296         \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10297           %% keeps lastbox
10298         \aftergroup\@leftcolumn
10299       \else
10300         %% removes lastbox
10301       \aftergroup\cuted@tempbox@a
10302     \fi
10303   }%
10304   \unskip\unkern\unpenalty
10305   \on@stripcols@break
10306   \the\At@ViperColsBreak

```





```

10307         \unvbox\@holdpg
10308     }%
10309     \global\At@ViperColsBreak{}%
10310     \ht@viper=.5\ht\@holdpg
10311     \ifdim\ht@viper>\@colht
10312         \ht@viper=\@colht
10313     \fi
10314 \fi
10315 %%
10316 %% calculations for breaking
10317 %%
10318 \ifvoid\hold@viper
10319     \ht@hold@viper=\z@
10320 \else
10321     \ht@hold@viper=\ht\hold@viper
10322 \fi
10323 \cuted@@tempdim@b\ht@viper
10324 \set@split@topskip@to\topskip
10325 \loop
10326     \xdef\saved@tempdim@b{\the\cuted@@tempdim@b}%
10327     \setbox\cuted@@varbox@a\copy\@holdpg
10328     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10329     %% set leftcolumn boxes
10330     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10331     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10332     \xdef\var@@leftcolumn@badness{\the\badness}%
10333     %% set rightcolumn boxes
10334     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10335     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10336     \xdef\var@@rightcolumn@badness{\the\badness}%
10337     %% analyzing split goodness
10338     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10339     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10340     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10341     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10342     \cuted@@wlog@debug{CUTED [-----]}%
10343     ^^JLeft: \the\ht\cuted@@tempbox@c
10344     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10345     ^^JRight: \the\ht\cuted@@varbox@c
10346     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10347     ^^JSplit: \the\cuted@@tempdim@b
10348     ^^JExtra height: \the\cuted@@tempdim@spread
10349     }%
10350     \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10351         \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10352             \cuted@@tempdim@spread=\z@
10353         \fi
10354     \fi
10355     \ifdim\cuted@@tempdim@spread<\z@
10356         \if@leftcolumn@spread
10357             \if@rightcolumn@shrink
10358                 \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10359                     \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@sp
10360                 \else

```



```

10361         \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\rela
10362     \fi
10363     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10364     \ifnum\badness<\cuted@@column@badness
10365         \cuted@@tempdim@b=\cuted@@tempdim@a
10366         \cuted@@tempdim@spread=\z@
10367     \fi
10368     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10369     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10370     \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10371 \else
10372     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10373     \unvcopy\cuted@@tempbox@c
10374     }%
10375     \ifnum\badness<\cuted@@column@badness
10376         \@tempdimb=\ht\cuted@@varbox@c
10377         \cuted@@tempdim@spread=\z@
10378     \fi
10379     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10380     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10381     \unvcopy\cuted@@varbox@c
10382     }%
10383     \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\h
10384     \fi
10385 \else
10386     \if@right@column@shrink
10387         \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10388         \else
10389             \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10390             \cuted@@tempdim@spread=\z@
10391         \fi
10392     \fi
10393 \fi
10394 \else
10395     \ifdim\cuted@@tempdim@spread>\z@
10396         \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10397             \cuted@@tempdim@b=\@colht
10398             \cuted@@tempdim@spread=\z@
10399         \fi
10400     \fi
10401 \fi
10402 \ifdim\cuted@@tempdim@spread<\z@
10403     \advance\cuted@@tempdim@b 1\p@
10404 \repeat
10405 \wlog{CUTED [- LAST -]}%
10406 ^^JExtra skip:\the\cuted@@tempdim@spread
10407 ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10408 ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10409 ^^JSplit:\saved@tempdimb
10410 ^^JOutput:\the\cuted@@tempdim@b
10411 ^^JPageshrink:\the\pageshrink
10412 ^^JPagestretch:\the\pagestretch
10413 ^^J@colht:\the\@colht
10414 }%

```



```

10415 %%
10416 %% final construction of the cuted page above strip
10417 %%
10418 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10419 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10420   \cuted@@tempdim@a=\dimexpr
10421     \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10422   \relax
10423   \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10424   \unvbox\cuted@@tempbox@c
10425   \ifdim\cuted@@tempdim@spread>\dp\strutbox
10426   \else
10427     \vskip-\cuted@@tempdim@spread
10428   \fi
10429   \prevdepth\z@
10430   \hrule\@height\cuted@@page@rule width\textwidth
10431   \vskip-\cuted@@page@rule
10432   \ifdim\cuted@@tempdim@a>\z@
10433     \if@left@column@spread
10434     \else
10435       \vss
10436     \fi
10437   \else
10438     \ifdim\cuted@@tempdim@a<\z@
10439       \if@left@column@shrink
10440       \else
10441         \vss
10442       \fi
10443     \fi
10444   \fi
10445   }%
10446   \wlog{CUTED [output]: \the\cuted@@tempdim@b
10447     ^^JCUTED [leftcolumn badness]: \number\badness
10448   }%
10449   \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10450     \cuted@@tempdim@a=\dimexpr
10451       \cuted@@tempdim@b-\ht\@holdpg
10452     \relax
10453     \unvbox\@holdpg
10454     \ifdim\cuted@@tempdim@a>\z@
10455       \if@right@column@spread
10456       \else
10457         \vss
10458       \fi
10459     \else
10460       \ifdim\cuted@@tempdim@a<\z@
10461         \if@right@column@shrink
10462         \else
10463           \vss
10464         \fi
10465       \fi
10466     \fi
10467     }%
10468   \wlog{CUTED [rightcolumn badness]: \number\badness}%

```



```

10469 \setbox\cuted@@tempbox@var\vbox{%
10470   \hb@xt@\textwidth{%
10471     \if@RTLmain
10472       \hskip \columnwidth
10473       \hfil
10474       {\normalcolor\vrule \@width\columnseprule}%
10475       \hfil
10476       \hb@xt@\columnwidth{%
10477         \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10478         \hss
10479       }%
10480       \hskip -\textwidth
10481       \hb@xt@\columnwidth{%
10482         \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10483         \hss
10484       }%
10485       \hskip \columnsep
10486       \hskip \columnwidth
10487     \else
10488       \hb@xt@\columnwidth{%
10489         \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10490         \hss
10491       }%
10492       \hfil
10493       {\normalcolor\vrule \@width\columnseprule}%
10494       \hfil
10495       \hb@xt@\columnwidth{%
10496         \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10497         \hss
10498       }%
10499     \fi
10500   }%
10501 }%
10502 %%
10503 %% finalize cuted page
10504 %%
10505 \ifvoid\hold@viper
10506   \global\setbox\hold@viper\vbox{%
10507     \unvbox\cuted@@tempbox@var
10508     \penalty\interlinepenalty
10509     \vskip\stripsep
10510     \the\preCutedStrip
10511     \ifnum\outputpenalty<-\@Mii
10512       \vskip -\parskip
10513     \fi
10514     \outputpenalty\z@
10515   }%
10516 \else
10517   \global\setbox\hold@viper\vbox{%
10518     \unvbox\hold@viper
10519     \cuted@@tempbox@var
10520     \penalty\interlinepenalty
10521     \vskip\stripsep
10522     \the\preCutedStrip

```



```

10523         \ifnum\outputpenalty<-\@Mii
10524             \vskip -\parskip
10525         \fi
10526         \outputpenalty\z@
10527     }%
10528 \fi
10529 \ifdim\@colht>\@reqcolroom
10530     \global\setbox\hold@viper\vbox{%
10531         \unvbox\hold@viper
10532         \box\@viper
10533         \penalty\interlinepenalty
10534         \the\postCutedStrip
10535         \vskip\stripsep
10536         \ifnum\outputpenalty<-\@Mii
10537             \vskip -\parskip
10538         \fi
10539         \outputpenalty\z@
10540     }%
10541     \@inserttrue
10542     \global\@firstcolumntrue
10543     \advance\ht@hold@viper by-\ht\hold@viper
10544     \global\advance\@colht by\ht@hold@viper
10545     \ifdim\@colht<2.5\baselineskip
10546         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10547                                     too tall on page \thepage (\var@@thecol@num column)}%
10548     \@emptycol
10549     \if@firstcolumn
10550     \else
10551         \@emptycol
10552     \fi
10553     \global\@lastvipertrue
10554 \else
10555     \global\vsizel\@colht
10556     \global\@colroom\@colht
10557     \check@floats\cuted@@tempdim@a
10558     \ifdim\cuted@@tempdim@a>\z@
10559         \global\advance\@colroom by-\cuted@@tempdim@a
10560     \fi
10561     \ifdim\@colroom<\z@
10562         \global\@colroom1\p@
10563         \ifdim\cuted@@tempdim@a>\@colht
10564             \@latex@warning@no@line{TOP and/or BOT FLOAT's
10565                                     to large on \thepage (\var@@thecol@num column)}%
10566         \fi
10567         \@emptycol
10568         \if@firstcolumn
10569         \else
10570             \@emptycol
10571         \fi
10572         \global\@lastvipertrue
10573     \fi
10574 \fi
10575 \fi
10576 \if@insert

```



```

10577 \else
10578     \advance\ht@hold@viper by-\ht\hold@viper
10579     \global\advance\colht by\ht\hold@viper
10580     \global\setbox\hold@viper\ vbox{%
10581         \unvbox\hold@viper
10582         \set@split@topskip@to{\z@ plus2\p@}%
10583         \vsplit\@viper to\@colht
10584         \vss
10585     }%
10586     \vbox{%
10587     \global\@firstcolumnfalse
10588     \newpage
10589     \fi
10590     }

```

## 76 File cvthemebidicasual.sty

```

10591 \NeedsTeXFormat{LaTeX2e}
10592 \ProvidesPackage{cvthemebidicasual}
10593 \DeclareOption{blue}{}
10594 \newif\if@colourorange\@colourorangefalse
10595 \DeclareOption{orange}{\@colourorange>true}
10596 \newif\if@colourgreen\@colourgreenfalse
10597 \DeclareOption{green}{\@colourgreentruer}
10598 \newif\if@colourred\@colourredfalse
10599 \DeclareOption{red}{\@colourredtrue}
10600 \newif\if@colourgrey\@colourgreyfalse
10601 \DeclareOption{grey}{\@colourgreytrue}
10602 \DeclareOption*{
10603     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10604 \ExecuteOptions{colour}
10605 \ProcessOptions\relax
10606 \renewcommand*{\listitemsymbol}{\textbullet}
10607 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10608 \familynamecolour{808080}
10609 \firstnamecolour{A9A9A9}
10610 \quotecolour{696969}
10611 \addresscolour{696969}
10612 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10613 \sectiontitlecolour{1E90FF}
10614 \subsectioncolour{4682B4}
10615 \definecolor{rulecolour}{gray}{0.6}
10616 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10617 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10618 \if@colourorange
10619     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10620     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10621     \sectiontitlecolour{FF8C00}
10622     \subsectioncolour{FF8C00}
10623     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10624     \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10625 \if@colourgreen
10626     \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10627     \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}

```



```

10628 \sectiontitlecolour{008000}
10629 \subsectioncolour{008000}
10630 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10631 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10632 \if@coloured
10633 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10634 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10635 \sectiontitlecolour{FF0000}
10636 \subsectioncolour{FF0000}
10637 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10638 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10639 \if@colourgrey
10640 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10641 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10642 \sectiontitlecolour{808080}
10643 \subsectioncolour{808080}
10644 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10645 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10646 \renewcommand*{\ttdefault}{pcr}
10647 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10648 \renewcommand*{\familynamefont}{\firstnamefont}
10649 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10650 \renewcommand*{\quoteont}{\large\slshape}
10651 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10652 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10653 \renewcommand*{\maketitle}{%
10654   {%
10655     \ifthenelse{\isundefined{\@photo}}{%
10656       {}%
10657       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10658     \hfill%
10659     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10660     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10661     \ifthenelse{\isundefined{\@quote}}{%
10662       {}%
10663       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}}\[
10664     ]}%
10665   \newif\if@firstfooterelement\@firstfooterelementtrue
10666 \providecommand*{\footersymbol}{}
10667 \renewcommand*{\footersymbol}{%
10668   \if@firstfooterelement%
10669   \else%
10670     { ~\color{footersymbolcolor}\textbullet~}\fi}
10671 \providecommand*{\makefooter}{}
10672 \renewcommand*{\makefooter}{%
10673   \fancypagestyle{plain}{%
10674     \fancyfoot[c]{%
10675       \parbox{0.8\textwidth}{%
10676         \centering%
10677         \addressfont\@addresscolour%
10678         \ifthenelse{\isundefined{\@address}}{}{}%
10679         \addresssymbol~\@address\\%
10680         \@firstfooterelementfalse}%
10681       \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}

```



```

10682     \ifthenelse{\isundefined{\@phone}}{\}{\footersymbol\phonesymbol~\@phone\@firstfooterele
10683     \ifthenelse{\isundefined{\@fax}}{\}{\footersymbol\xaxsymbol~\@fax\@firstfooterelementfa
10684     \ifthenelse{\isundefined{\@email}}{\}{\footersymbol\emailsymbolsymbol~\emailink{\@email}\@fi
10685     \ifthenelse{\isundefined{\@extrainfo}}{\}{\footersymbol\@extrainfo\@firstfooterelementf
10686   }%
10687   \pagestyle{plain}}
10688 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10689 \NeedsTeXFormat{LaTeX2e}
10690 \ProvidesPackage{cvthemebidiclassic}
10691 \DeclareOption{blue}{}
10692 \newif\if@colourorange\@colourorangefalse
10693 \DeclareOption{orange}{\@colourorange>true}
10694 \newif\if@colourgreen\@colourgreenfalse
10695 \DeclareOption{green}{\@colourgreentruer}
10696 \newif\if@coloured\@colouredfalse
10697 \DeclareOption{red}{\@colouredtrue}
10698 \newif\if@colourgrey\@colourgreyfalse
10699 \DeclareOption{grey}{\@colourgreytrue}
10700 \DeclareOption*{
10701   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10702 \ExecuteOptions{colour}
10703 \ProcessOptions\relax
10704 \renewcommand*\listitemssymbol{\textbullet}
10705 \firstnamecolour{}
10706 \familynamecolour{}
10707 \titlecolour{808080}
10708 \quotecolour{696969}
10709 \addresscolour{696969}
10710 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10711 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10712 \sectiontitlecolour{1E90FF}
10713 \subsectioncolour{4682B4}
10714 \if@colourorange
10715   \addresscolour{FF8C00}
10716   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10717   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10718   \sectiontitlecolour{FF8C00}
10719   \subsectioncolour{FF8C00}\fi
10720 \if@colourgreen
10721   \addresscolour{008000}
10722   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10723   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10724   \sectiontitlecolour{008000}
10725   \subsectioncolour{008000}\fi
10726 \if@coloured
10727   \addresscolour{FF0000}
10728   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10729   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10730   \sectiontitlecolour{FF0000}
10731   \subsectioncolour{FF0000}\fi
10732 \if@colourgrey

```





```

10733 \addresscolour{808080}
10734 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10735 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10736 \sectiontitlecolour{808080}
10737 \subsectioncolour{808080}\fi
10738 \renewcommand*{\ttdefault}{pcr}
10739 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10740 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10741 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10742 \renewcommand*{\familynamefont}{\firstnamefont}
10743 \renewcommand*{\quotefont}{\large\slshape}
10744 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10745 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10746 \newlength{\maketitlenamemaxwidth}
10747 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10748 \newlength{\maketitlenamefullwidth}
10749 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10750 \newlength{\maketitlenamewidth}
10751 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10752 \newlength{\maketitlepicturewidth}
10753 \setlength{\maketitlepicturewidth}{\@photowidth}
10754 \newlength{\maketitledetailwidth}
10755 \renewcommand*{\recomputethemelengths}{%
10756 \setlength{\maketitledetailwidth}{\textwidth}%
10757 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10758 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10759 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10760 \recomputethemelengths
10761 \newif\if@firstdetailselement\@firstdetailselementtrue
10762 \newcommand*{\maketitledetailsnewline}{
10763 \if@firstdetailselement%
10764 \@firstdetailselementfalse%
10765 \else%
10766 \\.2em\fi}
10767 \renewcommand*{\maketitle}{%
10768 % name and title
10769 \begin{minipage}[b]{\maketitlenamewidth}%
10770 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10771 \ifthenelse{\equal{\@title}{}}{\[1.25em\titlestyle{\@title}}%
10772 \end{minipage}%
10773 % optional data
10774 \begin{minipage}[b]{\maketitledetailwidth}%
10775 \bidi@raggedleft\addressfont\@addresscolour%
10776 \ifthenelse{\isundefined{\@address}}{\%
10777 \maketitledetailsnewline%
10778 \addresssymbol~\@address}%
10779 \ifthenelse{\isundefined{\@mobile}}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10780 \ifthenelse{\isundefined{\@phone}}{\maketitledetailsnewline\phonesymbol~\@phone}%
10781 \ifthenelse{\isundefined{\@fax}}{\maketitledetailsnewline\faxsymbol~\@fax}%
10782 \ifthenelse{\isundefined{\@email}}{\maketitledetailsnewline\emailsymbol~\@email}%
10783 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}%
10784 \end{minipage}%
10785 % optional photo
10786 \ifthenelse{\isundefined{\@photo}}%

```



```

10787   {}%
10788   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10789   % optional quote
10790   \ifthenelse{\isundefined{\@quote}}%
10791   {}%
10792   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10793   }

```

## 78 File dblfnote-xetex-bidi.def

```

10794 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10795 \let\autofooterule\relax
10796 \let\rightfootnoterule\relax
10797 \let\leftfootnoterule\relax
10798 \let\textwidthfootnoterule\relax
10799 \let\LRfootnoterule\relax
10800 \def\footnoterule{\kern-3\p@
10801   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10802 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10803 \let\@footnotetext\dfn@footnotetext}
10804 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10805   \let\insert\dfn@gobble
10806   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10807   \def\@makefnmark{\smash{\dfn@makefnmark}}
10808   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10809   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10810   \ifdim\dfn@dima>\z@\else
10811     \dfn@dima1sp\relax
10812     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10813   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10814     \ifvoid\dfn@ins\else
10815       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10816     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10817   \setbox\dfn@boxa\copy\dfn@ins
10818   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10819   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10820   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10821   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10822   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10823 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10824 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10825 \long\def\dfn@RTLfootnotetext#1{\setbox\dfn@boxa\vbox{
10826   \let\insert\dfn@gobble
10827   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10828   \def\@makefnmark{\smash{\dfn@makefnmark}}
10829   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10830   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10831   \ifdim\dfn@dima>\z@\else
10832     \dfn@dima1sp\relax
10833     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10834   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10835     \ifvoid\dfn@ins\else
10836       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10837     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%

```



```

10838 \setbox\dfn@boxa\copy\dfn@ins
10839 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10840 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10841 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10842 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10843 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10844 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10845 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10846 \def\dfn@RTLmakecol{\ifvoid\footins\else
10847 \dfn@dima\ht\footins
10848 \@tempcnta\z@ \dfn@countins
10849 \@tempdima\z@ \let\@elt\dfn@elt@getht
10850 \dfn@list\@nil
10851 \ifdim\@tempdima=\z@\else
10852 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10853 \global\setbox\dfn@ins\box\dfn@ins
10854 \@tempswatrue
10855 \ifdfn@trysingle
10856 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10857 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10858 \advance\@tempdima-\skip\footins
10859 \advance\@tempdima-\ht\dfn@boxa
10860 \ifdim\@tempdima<\z@\else \@tempswafalse
10861 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10862 \footnoterule \unvbox\dfn@boxa}\fi\fi
10863 \if@tempswa
10864 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10865 \global\setbox\footins\vbox{\hbox{%
10866 \hskip \DFNcolumnwidth
10867 \hskip\DFNcolumnsep
10868 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10869 \unvbox\dfn@boxb\vss}\hss}
10870 \hskip -\textwidth
10871 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10872 \vbox to\@tempdima{
10873 \setbox\@tempboxa\vbox{\footnoterule}
10874 \ifdfn@ruleboth \unvbox\@tempboxa
10875 \else \@tempdima\ht\@tempboxa
10876 \advance\@tempdima\dp\@tempboxa
10877 \vskip\@tempdima
10878 \prevdepth\dp\@tempboxa \fi
10879 \unvbox\dfn@boxa\vss}\fi\hss}
10880 \hskip \DFNcolumnsep
10881 \hskip \DFNcolumnwidth}}\fi\fi
10882 \global\dfn@fnht\z@
10883 \ifx\dfn@list\@empty\else
10884 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dima\z@
10885 \dfn@list \global\advance\dfn@fnht\dfn@dima
10886 \let\@elt\relax
10887 \ifdim\dfn@dima>\z@
10888 \xdef\dfn@list{\@elt{0}{\number\dfn@dima}\dfn@list}%
10889 \insert\footins{\floatingpenalty\@MM
10890 \vbox to\dfn@dima{}}\fi
10891 \ifdim\dfn@fnht>\@tempdima

```



```

10892             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10893             \global\dfn@fnht\@tempdima
10894             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10895             \xdef\dfn@afteroutput{\insert\footins{
10896                 \floatingpenalty\@MM
10897                 \vbox to\number\@tempdimb sp{}}}%
10898             \global\let\noexpand\dfn@afteroutput\relax}%
10899         \fi\fi
10900     \fi}%
10901     \let\footnoterule\relax \dfn@latex@makecol
10902     \let\footnoterule\dfn@footnoterule}
10903 \def\dfn@LTRmakecol{{\ifvoid\footins\else
10904     \dfn@dima\ht\footins
10905     \@tempcnta\z@ \dfn@countins
10906     \@tempdima\z@ \let\@elt\dfn@elt@getht
10907     \dfn@list\@nil
10908     \ifdim\@tempdima=\z@\else
10909     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10910     \global\setbox\dfn@ins\box\dfn@ins
10911     \@tempswatrue
10912     \ifdfn@trysingle
10913         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10914         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10915         \advance\@tempdima-\skip\footins
10916         \advance\@tempdima-\ht\dfn@boxa
10917         \ifdim\@tempdima<\z@\else \@tempswafalse
10918             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10919                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10920     \if@tempswa
10921     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10922     \global\setbox\footins\vbox{\hbox{%
10923         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10924             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10925         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10926             \vbox to\@tempdima{
10927                 \setbox\@tempboxa\vbox{\footnoterule}
10928                 \ifdfn@ruleboth \unvbox\@tempboxa
10929                 \else \@tempdima\ht\@tempboxa
10930                 \advance\@tempdima\dp\@tempboxa
10931                 \vskip\@tempdima
10932                 \prevdepth\dp\@tempboxa \fi
10933                 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10934     \global\dfn@fnht\z@
10935     \ifx\dfn@list\@empty\else
10936         \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10937         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10938         \let\@elt\relax
10939         \ifdim\dfn@dimb>\z@
10940             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10941             \insert\footins{\floatingpenalty\@MM
10942                 \vbox to\dfn@dimb{}}\fi
10943         \ifdim\dfn@fnht>\@tempdima
10944             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10945             \global\dfn@fnht\@tempdima

```



```

10946         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10947         \xdef\dfn@afteroutput{\insert\footins{
10948             \floatingpenalty\@MM
10949             \vbox to\number\@tempdimb sp{}}}%
10950         \global\let\noexpand\dfn@afteroutput\relax}%
10951     \fi\fi
10952     \fi}%
10953     \let\footnoterule\relax \dfn@latex@makecol
10954     \let\footnoterule\dfn@footnoterule}
10955 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10956 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10957 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10958 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

10959 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10960 \bidi@patchcmd{\diagbox@double}{%
10961     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10962 }{\bidi@@diagbox@double@ii}{-}{-}
10963 \bidi@patchcmd{\diagbox@double}{%
10964     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10965 }{\bidi@@diagbox@double@iii}{-}{-}
10966 \newcommand*{\bidi@@diagbox@double@ii}{%
10967     \if@RTL
10968         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10969     \else
10970         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10971     \fi
10972 }
10973 \newcommand*{\bidi@@diagbox@double@iii}{%
10974     \if@RTL
10975         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10976     \else
10977         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10978     \fi
10979 }
10980 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10981     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10982 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10983 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10984     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10985 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10986 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10987     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10988 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10989 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10990     \if@RTL
10991         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10992     \else
10993         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10994     \fi}
10995 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10996     \if@RTL

```



```

10997   \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10998   \else
10999     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11000     \fi}
11001 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11002 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11003   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11004 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11005 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11006   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11007 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11008 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11009   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11010 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11011 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11012   \ifRTL
11013     \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11014     \else
11015     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11016     \fi
11017 }
11018 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11019   \ifRTL
11020     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11021     \else
11022     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11023     \fi
11024 }
11025 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11026 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11027   \diagbox@setlinecolor
11028   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11029 }{%
11030   {\diagbox@setlinecolor
11031   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11032 }{-}{-}
11033 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11034 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11035   \diagbox@setlinecolor
11036   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11037 }{%
11038   {\diagbox@setlinecolor
11039   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11040 }{-}{-}
11041 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11042 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11043   \diagbox@setlinecolor
11044   \Line(0,\yym)(\x,0)
11045   \Line(\xm,\y)(\x,0)%
11046 }{%
11047   {\diagbox@setlinecolor
11048   \Line(0,\yym)(\x,0)
11049   \Line(\xm,\y)(\x,0)}%
11050 }{-}{-}

```



```

11051 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11052   \diagbox@setlinecolor
11053   \Line(0,0)(\xxm,\y)
11054   \Line(0,0)(\x,\yym)%
11055 }{%
11056   {\diagbox@setlinecolor
11057    \Line(0,0)(\xxm,\y)
11058    \Line(0,0)(\x,\yym)}%
11059 }{}{}
11060 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11061   \diagbox@setlinecolor
11062   \Line(0,\ym)(\x,\y)
11063   \Line(\xm,0)(\x,\y)%
11064 }{%
11065   {\diagbox@setlinecolor
11066    \Line(0,\ym)(\x,\y)
11067    \Line(\xm,0)(\x,\y)}%
11068 }{}{}
11069 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11070   \diagbox@setlinecolor
11071   \Line(0,\y)(\xxm,0)
11072   \Line(0,\y)(\x,\ym)%
11073 }{%
11074   {\diagbox@setlinecolor
11075    \Line(0,\y)(\xxm,0)
11076    \Line(0,\y)(\x,\ym)}%
11077 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11078 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11079 \renewcommand\SetWatermarkText[1]{%
11080   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

11081 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11082 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11083   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11084
11085 \ESO@isMEMOIR{%
11086   \renewcommand\AtTextUpperLeft[1]{%
11087     \begingroup
11088       \ifodd\c@page
11089         \if@RTLmain
11090           \ESO@tempdima=\paperwidth
11091           \advance\ESO@tempdima-\textwidth
11092           \advance\ESO@tempdima-\spinmargin
11093         \else
11094           \ESO@tempdima=\spinmargin
11095         \fi
11096       \else
11097         \if@RTLmain
11098           \ESO@tempdima=\spinmargin

```



```

11099     \else
11100         \ESO@tempdima=\paperwidth
11101         \advance\ESO@tempdima-\textwidth
11102         \advance\ESO@tempdima-\spinmargin
11103     \fi
11104 \fi
11105 \ESO@tempdimb=-\uppermargin
11106 \AtPageUpperLeft{%
11107     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11108 }%
11109 \endgroup
11110 }
11111 }{%
11112 \renewcommand\AtTextUpperLeft[1]{%
11113     \begingroup
11114     \ESO@tempdima=1in\relax
11115     \if@twoside
11116         \ifodd\c@page
11117             \if@RTLmain
11118                 \advance\ESO@tempdima\evensidemargin
11119             \else
11120                 \advance\ESO@tempdima\oddsidemargin
11121             \fi
11122         \else
11123             \if@RTLmain
11124                 \advance\ESO@tempdima\oddsidemargin
11125             \else
11126                 \advance\ESO@tempdima\evensidemargin
11127             \fi
11128         \fi
11129     \else
11130         \advance\ESO@tempdima\oddsidemargin
11131     \fi
11132     \ESO@tempdimb=-1in\relax
11133     \advance\ESO@tempdimb-\topmargin
11134     \advance\ESO@tempdimb-\headheight
11135     \advance\ESO@tempdimb-\headsep
11136     \AtPageUpperLeft{%
11137         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11138     }%
11139 \endgroup
11140 }
11141 }

```

## 82 File empheq-xetex-bidi.def

```

11142 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11143 \MHInternalSyntaxOn
11144 \def\EQ_tag_plus_endmark:{%
11145     \iftagsleft@
11146     \gdef\maketag@@@##1{%
11147         \hfuzz\displaywidth
11148         \if@RTL\makebox[\widthof{##1}][r]{%
11149             \hbox to \displaywidth{\m@th\normalfont##1\hss

```





```

11150         \raisebox{-\dp\EQ_mathdisplay_box
11151             -\depthof{\EQ_outerbox: {}}
11152             {\PotEndMark{\hss}}}}
11153     \else\makebox[\widthof{##1}] [l]{%
11154         \hbox to \displaywidth{\m@th\normalfont##1\hss
11155         \raisebox{-\dp\EQ_mathdisplay_box
11156             -\depthof{\EQ_outerbox: {}}
11157             {\PotEndMark{\hss}}}\fi}%
11158 \MH_else:
11159 \gdef\maketag@@@##1{%
11160     \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11161         \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
11162         \MH_addtolength:dn \@tempdima
11163         {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11164         \setlength{\@tempdimb}
11165         {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox: {}}
11166         +\depthof{\EQ_innerbox: {}}}
11167         \MH_if_dim:w \@tempdima>\@tempdimb
11168         \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11169         -\@tempdima+\g_EQ_bottomrow_depth_dim}
11170         \addtolength{\@tempdima}{\depthof{\EQ_innerbox: {}}}%
11171         \def\EQ_next: {\raisebox{\@tempdima}}}%
11172     \MH_else:
11173         \def\EQ_next: {
11174             \raisebox{-\dp\EQ_mathdisplay_box
11175                 -\depthof{\EQ_outerbox: {}}}%
11176         \MH_fi:\EQ_next:}}}%
11177 \MH_fi:}
11178 \def\EQ_post_process: {%
11179 \EQ_initialize:
11180 \EQ_begin_equation:
11181 \MH_if_boolean:nT {outer_mult}{
11182     \setkeys{\MT_options_name:}{
11183         firstline-afterskip=0pt,
11184         lastline-preskip=0pt,
11185         multlined-width=0pt,
11186     }
11187     \ifodd \l_EQ_alignmentmode_int
11188     \setkeys{\MT_options_name:}{multlined-pos=b}
11189 \MH_else:
11190     \setkeys{\MT_options_name:}{multlined-pos=t}
11191 \MH_fi:
11192     \g@addto@macro\EQ_complete_mathdisplay: {
11193         \begin{MTmultlined}\relax
11194     }
11195     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11196 \MH_if_boolean:nT {outer_mult}{
11197     \g@addto@macro\EQ_complete_mathdisplay: {\end{MTmultlined}}
11198 }
11199 \EQ_end_equation:
11200 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11201 \savecounters@
11202 \EQ_typeset_tags:
11203 \edef\l_EQ_equation_fint{\number\c@equation}

```



```

11204 \restorecounters@
11205 \Hy@linkcounter=EQ_hyperref_link_fint
11206 \settowidth\l_EQ_totalwidth_dim{%
11207   $EQ_left_side:EQ_innerbox:}\EQ_right_side:$}%
11208 \MH_if_boolean:nTF {outer_mult}
11209   { \def\EQ_next:{_mult} }
11210   { \def\EQ_next:{} }
11211 \@nameuse{EQ_modify_linewidth_
11212   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11213 \EQ_typeset_display:
11214 \@nameuse{EQ_find_displaywidth_
11215   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11216 \MH_addtolength:dn
11217   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11218 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11219   $EQ_left_side:
11220   \EQ_innerbox:{%
11221     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11222     \makebox[\l_EQ_displaywidth_dim][c]
11223       {\usebox{\EQ_mathdisplay_box}}}%
11224     \MH_or:
11225     \makebox[\l_EQ_displaywidth_dim][c]
11226       {\usebox{\EQ_mathdisplay_box}}}%
11227     \MH_or:
11228     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11229       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11230         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11231           \kern-\@mathmargin
11232           \MH_fi:
11233           \MH_fi:
11234           \usebox{\EQ_mathdisplay_box}}}%
11235     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11236       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11237         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11238           \kern-\@mathmargin
11239           \MH_fi:
11240           \MH_fi:
11241           \usebox{\EQ_mathdisplay_box}}\fi%
11242     \MH_or:
11243     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11244       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11245         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11246           \kern-\@mathmargin
11247           \MH_fi:
11248           \MH_fi:
11249           \usebox{\EQ_mathdisplay_box}}
11250     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11251       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11252         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11253           \kern-\@mathmargin
11254           \MH_fi:
11255           \MH_fi:
11256           \usebox{\EQ_mathdisplay_box}}\fi%
11257     \MH_fi:}%

```



```

11258 \EQ_right_side:$}%
11259 \begin{AmSequation*}
11260 \@nameuse{EQ_place_display_
11261 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11262 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11263 \MH_set_boolean_T:n {show_manual_tags}
11264 \MH_if_case:w \l_EQ_alignmentmode_int
11265 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11266 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11267 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11268 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11269 \MH_fi:
11270 \MH_fi:
11271 \end{AmSequation*}
11272 \global\c@equation=\l_EQ_equation_fint\relax
11273 }
11274 \AtBeginDocument{%
11275 \@ifpackageloaded{fancybox}{%
11276 \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11277 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11278 \renewcommand*shadowbox{%
11279 \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11280 \VerbBox\EQ_shadowbox:n}
11281 {\MH_set_boolean_F:n {shadowbox_star}
11282 \VerbBox\EQ_shadowbox:n}}
11283 \def\EQ_shadowbox:n #1{%
11284 \sbox{\z@}{\fbox{#1}}%
11285 \MH_if_boolean:nTF {shadowbox_star}{
11286 \MH_setlength:dn \@tempdima{\z@}%
11287 }{
11288 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11289 }
11290 \raisebox{\@tempdima}{%
11291 \if@RTL\makebox[\z@][r]{%
11292 \kern\shadowsize \textcolor{shadowcolor}{%
11293 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11294 }%
11295 \else\makebox[\z@][l]{%
11296 \kern\shadowsize \textcolor{shadowcolor}{%
11297 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11298 }\fi%
11299 \usebox\z@\textcolor{shadowcolor}{%
11300 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11301 }{}}%
11302 }
11303 \MHInternalSyntaxOff

```

## 83 File extarticle-xetex-bidi.def

```

11304 \ProvidesFile{extarticle-xetex-bidi.def}[2025/01/05 v0.5 bidi adaptations for extarticle cla
11305 \renewcommand*\l@section[2]{%
11306 \ifnum \c@tocdepth >\z@
11307 \addpenalty\@secpenalty
11308 \addvspace{1.0em \@plus\p@}%

```



```

11309 \setlength\@tempdima{1.5em}%
11310 \begingroup
11311 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11312 \parfillskip -\@pnumwidth
11313 \leavevmode \bfseries
11314 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11315 \hskip -\if@RTL\rightskip\else\leftskip\fi
11316 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11317 \endgroup
11318 \fi}
11319 \renewcommand*\l@part[2]{%
11320 \ifnum \c@tocdepth >-2\relax
11321 \addpenalty\@secpenalty
11322 \addvspace{2.25em \@plus\p@}%
11323 \begingroup
11324 \setlength\@tempdima{3em}%
11325 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11326 \parfillskip -\@pnumwidth
11327 {\leavevmode
11328 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11329 \nobreak
11330 \endgroup
11331 \fi}
11332 \def\@part[#1]#2{%
11333 \ifnum \c@secnumdepth >\m@ne
11334 \refstepcounter{part}%
11335 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11336 \else
11337 \addcontentsline{toc}{part}{#1}%
11338 \fi
11339 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11340 \interlinepenalty \@M
11341 \normalfont
11342 \ifnum \c@secnumdepth >\m@ne
11343 \Large\bfseries \partname~\thepart
11344 \par\nobreak
11345 \fi
11346 \huge \bfseries #2%
11347 \markboth{}{}\par}%
11348 \nobreak
11349 \vskip 3ex
11350 \@afterheading}
11351 \ApplyPatchIfPackageLoaded{nameref}{%
11352 \bidi@patchcmd\NR@spart\raggedright{%
11353 \if@RTL\raggedleft\else\raggedright\fi
11354 }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11355 }{%
11356 \bidi@patchcmd\@spart\raggedright{%
11357 \if@RTL\raggedleft\else\raggedright\fi
11358 }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11359 }
11360 \renewenvironment{thebibliography}[1]
11361 {\section*\refname
11362 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%

```



```

11363         \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
11364         \bidi@thebibliography@font@hook%
11365         \list{\@biblabel{\@arabic@c@enumiv}}%
11366         {\settowidth\labelwidth{\@biblabel{#1}}%
11367         \leftmargin\labelwidth
11368         \advance\leftmargin\labelsep
11369         \@openbib@code
11370         \usecounter{enumiv}}%
11371         \let\p@enumiv\@empty
11372         \renewcommand\theenumiv{\@arabic@c@enumiv}}%
11373         \sloppy\clubpenalty4000\widowpenalty4000%
11374         \sfcode`. \@m}
11375     {\def\@noitemerr
11376     {\@latex@warning{Empty `thebibliography' environment}}}%
11377     \endlist}
11378 \renewcommand\left@footnoterule{%
11379 \kern-3\p@
11380 \hrule\@width.4\columnwidth
11381 \kern2.6\p@}
11382 \renewcommand\right@footnoterule{%
11383 \kern-3\p@
11384 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11385 \kern2.6\p@}
11386     \if@titlepage
11387     \renewcommand\maketitle{\begin{titlepage}%
11388     \let\footnotesize\small
11389     \let\right@footnoterule\relax
11390     \let\left@footnoterule\relax
11391     \let\textwidth@footnoterule\relax
11392     \let \footnote \thanks
11393     \null\vfil
11394     \vskip 60\p@
11395     \begin{center}%
11396     {\LARGE \@title \par}%
11397     \vskip 3em%
11398     {\large
11399     \lineskip .75em%
11400     \begin{tabular}[t]{c}%
11401     \@author
11402     \end{tabular}\par}%
11403     \vskip 1.5em%
11404     {\large \@date \par}%           % Set date in \large size.
11405     \end{center}\par
11406     \@thanks
11407     \vfil\null
11408     \end{titlepage}%
11409     \setcounter{footnote}{0}%
11410     \global\let\thanks\relax
11411     \global\let\maketitle\relax
11412     \global\let\@thanks\@empty
11413     \global\let\@author\@empty
11414     \global\let\@date\@empty
11415     \global\let\@title\@empty
11416     \global\let\title\relax

```



```

11417 \global\let\author\relax
11418 \global\let\date\relax
11419 \global\let\and\relax
11420 }
11421 \else
11422 \renewcommand\maketitle{\par
11423 \begin{group}
11424 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11425 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11426 \long\def\@makefntext##1{\parindent 1em\noindent
11427 \hb@xt@1.8em{\%
11428 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11429 \if@twocolumn
11430 \ifnum \col@number=\@ne
11431 \maketitle
11432 \else
11433 \twocolumn[\maketitle]%
11434 \fi
11435 \else
11436 \newpage
11437 \global\@topnum\z@ % Prevents figures from going at top of page.
11438 \maketitle
11439 \fi
11440 \thispagestyle{plain}\@thanks
11441 \endgroup}
11442 \setcounter{footnote}{0}%
11443 \global\let\thanks\relax
11444 \global\let\maketitle\relax
11445 \global\let\@maketitle\relax
11446 \global\let\@thanks\@empty
11447 \global\let\@author\@empty
11448 \global\let\@date\@empty
11449 \global\let\@title\@empty
11450 \global\let\title\relax
11451 \global\let\author\relax
11452 \global\let\date\relax
11453 \global\let\and\relax
11454 }
11455 \def\@maketitle{%
11456 \newpage
11457 \null
11458 \vskip 2em%
11459 \begin{center}%
11460 \let \footnote \thanks
11461 {\LARGE \@title \par}%
11462 \vskip 1.5em%
11463 {\large
11464 \lineskip .5em%
11465 \begin{tabular}[t]{c}%
11466 \@author
11467 \end{tabular}\par}%
11468 \vskip 1em%
11469 {\large \@date}%
11470 \end{center}%

```



```

11471 \par
11472 \vskip 1.5em}
11473 \fi
11474 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11475 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11476 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11477 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11478 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11479 \if@titlepage
11480 \renewcommand\maketitle{\begin{titlepage}%
11481 \let\footnotesize\small
11482 \let\right@footnoterule\relax
11483 \let\left@footnoterule\relax
11484 \let\textwidth@footnoterule\relax
11485 \let \footnote \thanks
11486 \let \LTRfootnote \LTRthanks
11487 \let \RTLfootnote \RTLthanks
11488 \null\vfil
11489 \vskip 60\p@
11490 \begin{center}%
11491 {\LARGE \@title \par}%
11492 \vskip 3em%
11493 {\large
11494 \lineskip .75em%
11495 \begin{tabular}[t]{c}%
11496 \@author
11497 \end{tabular}\par}%
11498 \vskip 1.5em%
11499 {\large \@date \par}% % Set date in \large size.
11500 \end{center}\par
11501 \@thanks
11502 \vfil\null
11503 \end{titlepage}%
11504 \setcounter{footnote}{0}%
11505 \global\let\thanks\relax
11506 \global\let\LTRthanks\relax
11507 \global\let\RTLthanks\relax
11508 \global\let\maketitle\relax
11509 \global\let\@thanks\@empty
11510 \global\let\@author\@empty
11511 \global\let\@date\@empty
11512 \global\let\@title\@empty
11513 \global\let\title\relax
11514 \global\let\author\relax
11515 \global\let\date\relax
11516 \global\let\and\relax
11517 }
11518 \else
11519 \renewcommand\maketitle{\par
11520 \begingroup
11521 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%

```



```

11522 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11523 \long\def\@makefntext##1{\parindent 1em\noindent
11524 \hb@xt@1.8em{%
11525 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11526 \if@twocolumn
11527 \ifnum \col@number=\@ne
11528 \maketitle
11529 \else
11530 \twocolumn[\@maketitle]%
11531 \fi
11532 \else
11533 \newpage
11534 \global\@topnum\z@ % Prevents figures from going at top of page.
11535 \maketitle
11536 \fi
11537 \thispagestyle{plain}\@thanks
11538 \endgroup
11539 \setcounter{footnote}{0}%
11540 \global\let\thanks\relax
11541 \global\let\LTRthanks\relax
11542 \global\let\RTLthanks\relax
11543 \global\let\maketitle\relax
11544 \global\let\@maketitle\relax
11545 \global\let\@thanks\@empty
11546 \global\let\@author\@empty
11547 \global\let\@date\@empty
11548 \global\let\@title\@empty
11549 \global\let\title\relax
11550 \global\let\author\relax
11551 \global\let\date\relax
11552 \global\let\and\relax
11553 }
11554 \def\@maketitle{%
11555 \newpage
11556 \null
11557 \vskip 2em%
11558 \begin{center}%
11559 \let \footnote \thanks
11560 \let \LTRfootnote \LTRthanks
11561 \let \RTLfootnote \RTLthanks
11562 {\LARGE \@title \par}%
11563 \vskip 1.5em%
11564 {\large
11565 \lineskip .5em%
11566 \begin{tabular}[t]{c}%
11567 \@author
11568 \end{tabular}\par}%
11569 \vskip 1em%
11570 {\large \@date}%
11571 \end{center}%
11572 \par
11573 \vskip 1.5em}
11574 \fi
11575 \renewcommand*\l@part[2]{%

```





```

11576 \ifnum \c@tocdepth >-2\relax
11577   \addpenalty{-\@highpenalty}%
11578   \addvspace{2.25em \@plus\p}%
11579   \begingroup
11580     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11581     \parfillskip -\@pnumwidth
11582     {\leavevmode
11583       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11584     \nobreak
11585     \global\@nobreaktrue
11586     \everypar{\global\@nobreakfalse\everypar{}}%
11587   \endgroup
11588 \fi}
11589 \renewcommand\theequation
11590   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11591 \renewcommand\thefigure
11592   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11593 \renewcommand\thetable
11594   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11595 \renewcommand\thechapter {\@arabic\c@chapter}
11596 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
11597 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11598 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11599 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11600 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11601 \def\@makechapterhead#1{%
11602   \vspace*{50\p}%
11603   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11604     \ifnum \c@secnumdepth >\m@ne
11605       \if@mainmatter
11606         \huge\bfseries \@chapapp\space \thechapter
11607         \par\nobreak
11608         \vskip 20\p@
11609       \fi
11610       \fi
11611       \interlinepenalty\@M
11612       \Huge \bfseries #1\par\nobreak
11613       \vskip 40\p@
11614   }}
11615
11616 \def\@makeschapterhead#1{%
11617   \vspace*{50\p}%
11618   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11619     \normalfont
11620     \interlinepenalty\@M
11621     \Huge \bfseries #1\par\nobreak
11622     \vskip 40\p@
11623   }}
11624 \renewcommand\backmatter{%
11625   \if@openright
11626     \cleardoublepage
11627   \else
11628     \clearpage
11629   \fi

```



```

11630 \@mainmatterfalse}
11631 \renewenvironment{thebibliography}[1]
11632   {\chapter*{\bibname
11633     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11634     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
11635     \bidi@thebibliography@font@hook%
11636     \list{\@biblabel{\@arabic\c@enumiv}}%
11637       {\settowidth\labelwidth{\@biblabel{#1}}%
11638        \leftmargin\labelwidth
11639        \advance\leftmargin\labelsep
11640        \@openbib@code
11641        \usecounter{enumiv}}%
11642        \let\p@enumiv\@empty
11643        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11644     \sloppy
11645     \clubpenalty4000
11646     \@clubpenalty \clubpenalty
11647     \widowpenalty4000%
11648     \sfcode`.\@m}
11649   {\def\@noitemerr
11650     {\@latex@warning{Empty `thebibliography' environment}}}%
11651   \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11652 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11653 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11654   \thispagestyle{firstpage}%
11655   {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11656   \else % home address
11657     \thispagestyle{empty}%
11658     {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11659     \fromaddress \*[2\parskip]%
11660     \@date \end{tabular}\par}%
11661   \fi
11662   \vspace{2\parskip}%
11663   {\ifRTL\raggedleft\else\raggedright\fi \toname \[ \toaddress \par}%
11664   \vspace{2\parskip}%
11665   #1\par\nobreak}
11666 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11667   \stopbreaks
11668   \noindent
11669   \ifx\@empty\fromaddress\else
11670     \hspace*{\longindentation}\fi
11671   \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11672     \ignorespaces #1\[[6\medskipamount]]%
11673     \ifx\@empty\fromsig
11674       \fromname
11675     \else \fromsig \fi\strut}%
11676   \par}
11677 \renewcommand\left@footnoterule{%
11678   \kern-\p@
11679   \hrule \@width .4\columnwidth
11680   \kern .6\p@}

```



```

11681 \renewcommand\right@footnoterule{%
11682 \kern-\p@
11683 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11684 \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11685 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11686 \newdimen\bidi@columnwidth
11687 \def\bidi@floathook{%
11688 \bidi@columnwidth\columnwidth
11689 }
11690 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11691 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11692 \if@bidi@csundef{HLTR@@LTRfootnotetext}{-}{%
11693 \ifHy@hyperfootnotes
11694 \let\@H@@footnotetext\@footnotetext
11695 \let\@HLTR@@LTRfootnotetext\@LTRfootnotetext
11696 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
11697 \let\@H@@mpfootnotetext\@mpfootnotetext
11698 \let\@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11699 \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11700 \fi
11701 }%
11702 }%
11703 }
11704 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11705 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11706 \if@bidi@csundef{HLTR@@LTRfootnotetext}{-}{%
11707 \ifHy@hyperfootnotes
11708 \let\H@@footnotetext\@footnotetext
11709 \let\@footnotetext\@H@@footnotetext
11710 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11711 \let\@LTRfootnotetext\@HLTR@@LTRfootnotetext
11712 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11713 \let\@RTLfootnotetext\@HRTL@@RTLfootnotetext
11714 \let\H@@mpfootnotetext\@mpfootnotetext
11715 \let\@mpfootnotetext\@H@@mpfootnotetext
11716 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11717 \let\@mpLTRfootnotetext\@HLTR@@mpLTRfootnotetext
11718 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11719 \let\@mpRTLfootnotetext\@HRTL@@mpRTLfootnotetext
11720 \fi
11721 }%
11722 }%
11723 }
11724 \let\autofootnoterule\relax
11725 \let\rightfootnoterule\relax
11726 \let\leftfootnoterule\relax
11727 \let\textwidthfootnoterule\relax
11728 \let\LRfootnoterule\relax
11729 \def\footnoterule{\kern-3\p@
11730 \hrule \@width \columnwidth \kern 2.6\p@}
11731 \newcommand{\@preamnormalfmt}{%

```



```

11732 \parindent 1em%
11733 \noindent
11734 }
11735 \newcommand{\@normalfootfmt}[1]{%
11736 \@preamnormalfmt
11737 \footfootmark
11738 \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
11739 \@finalstrut\strutbox
11740 }
11741 \newcommand{\@normalRTLfootfmt}[1]{%
11742 \@preamnormalfmt
11743 \RTLfootfootmark
11744 \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
11745 \@finalstrut\strutbox
11746 }
11747 \newcommand{\@normalLTRfootfmt}[1]{%
11748 \@preamnormalfmt
11749 \LTRfootfootmark
11750 \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
11751 \@finalstrut\strutbox
11752 }
11753 \renewcommand{\@footnotetext}[1]{%
11754 \insert\footins{%
11755 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11756 \def\baselinestretch{\m@m@footnote@spacing}%
11757 \reset@font
11758 \foottextfont
11759 \@preamfntext
11760 \hsize\columnwidth
11761 \protected@edef\@currentlabel{%
11762 \csname p@footnote\endcsname\@thefnmark}%
11763 \color@begingroup
11764 \@normalfootfmt{#1}%
11765 \color@endgroup}%
11766 \m@mmf@prepare}
11767 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11768 \bidi@step@absolute@footnote@count
11769 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11770 \insert\footins{%
11771 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11772 \def\baselinestretch{\m@m@footnote@spacing}%
11773 \reset@font
11774 \foottextfont
11775 \@preamfntext
11776 \hsize\columnwidth
11777 \protected@edef\@currentlabel{%
11778 \csname p@footnote\endcsname\@thefnmark}%
11779 \color@begingroup
11780 \@normalfootfmt{#1}%
11781 \color@endgroup}%
11782 \m@mmf@prepare
11783 }
11784 \renewcommand{\@RTLfootnotetext}[1]{%
11785 \insert\footins{%

```



```

11786 \RTLtrue%
11787 \def\baselinestretch{\m@m@footnote@spacing}%
11788 \reset@font
11789 \RTLfoottextfont
11790 \@preamftext
11791 \hsize\columnwidth
11792 \protected@edef\@currentlabel{%
11793 \csname p@footnote\endcsname\@thefnmark}%
11794 \color@begingroup
11795 \@normalRTLfootfmt{#1}%
11796 \color@endgroup}%
11797 \m@mmf@prepare}
11798 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11799 \bidi@step@absolute@footnote@count
11800 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11801 \insert\footins{%
11802 \RTLtrue%
11803 \def\baselinestretch{\m@m@footnote@spacing}%
11804 \reset@font
11805 \RTLfoottextfont
11806 \@preamftext
11807 \hsize\columnwidth
11808 \protected@edef\@currentlabel{%
11809 \csname p@footnote\endcsname\@thefnmark}%
11810 \color@begingroup
11811 \@normalRTLfootfmt{#1}%
11812 \color@endgroup}%
11813 \m@mmf@prepare
11814 }
11815 \renewcommand{\@LTRfootnotetext}[1]{%
11816 \insert\footins{%
11817 \RTLfalse%
11818 \def\baselinestretch{\m@m@footnote@spacing}%
11819 \reset@font
11820 \LTRfoottextfont
11821 \@preamftext
11822 \hsize\columnwidth
11823 \protected@edef\@currentlabel{%
11824 \csname p@footnote\endcsname\@thefnmark}%
11825 \color@begingroup
11826 \@normalLTRfootfmt{#1}%
11827 \color@endgroup}%
11828 \m@mmf@prepare}
11829 \renewcommand{\@mpfootnotetext}[1]{%
11830 \global\setbox\@mpfootins\vbox{%
11831 \unvbox\@mpfootins
11832 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
11833 \def\baselinestretch{\m@m@footnote@spacing}%
11834 \reset@font%
11835 \foottextfont \hsize\columnwidth \@parboxrestore
11836 \protected@edef\@currentlabel{%
11837 \csname p@mpfootnote\endcsname\@thefnmark}%
11838 \color@begingroup
11839 \@normalfootfmt{#1}%

```



```

11840 \color@endgroup}}
11841 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11842 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11843 \global\setbox\@mpfootins\vbox{%
11844 \unvbox\@mpfootins
11845 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11846 \def\baselinestretch{\m@m@footnote@spacing}%
11847 \reset@font%
11848 \foottextfont \hsize\columnwidth \@parboxrestore
11849 \protected@edef\@currentlabel{%
11850 \csname p@mpfootnote\endcsname\@thefnmark}%
11851 \color@begingroup
11852 \@normalfootfmt{#1}%
11853 \color@endgroup}}
11854 \renewcommand{\@mpLTRfootnotetext}[1]{%
11855 \global\setbox\@mpfootins\vbox{%
11856 \unvbox\@mpfootins
11857 \@RTLfalse
11858 \def\baselinestretch{\m@m@footnote@spacing}%
11859 \reset@font%
11860 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11861 \protected@edef\@currentlabel{%
11862 \csname p@mpfootnote\endcsname\@thefnmark}%
11863 \color@begingroup
11864 \@normalLTRfootfmt{#1}%
11865 \color@endgroup}}
11866 \renewcommand{\@mpRTLfootnotetext}[1]{%
11867 \global\setbox\@mpfootins\vbox{%
11868 \unvbox\@mpfootins
11869 \@RTLtrue
11870 \def\baselinestretch{\m@m@footnote@spacing}%
11871 \reset@font%
11872 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11873 \protected@edef\@currentlabel{%
11874 \csname p@mpfootnote\endcsname\@thefnmark}%
11875 \color@begingroup
11876 \@normalRTLfootfmt{#1}%
11877 \color@endgroup}}
11878 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11879 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11880 \global\setbox\@mpfootins\vbox{%
11881 \unvbox\@mpfootins
11882 \@RTLtrue
11883 \def\baselinestretch{\m@m@footnote@spacing}%
11884 \reset@font%
11885 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11886 \protected@edef\@currentlabel{%
11887 \csname p@mpfootnote\endcsname\@thefnmark}%
11888 \color@begingroup
11889 \@normalRTLfootfmt{#1}%
11890 \color@endgroup}}
11891 \let\m@mold@footnotetext\@footnotetext
11892 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11893 \let\m@mold@RTLfootnotetext\@RTLfootnotetext

```



```

11894 \let\m@mold@mpfootnotetext\@mpfootnotetext
11895 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11896 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11897 \bidi@ensure@newcommand{\normalfootnotes}{%
11898   \@bidi@before@Hy@hyperfootnotes
11899   \let\@footnotetext\m@mold@footnotetext
11900   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11901   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11902   \let\@mpfootnotetext\m@mold@mpfootnotetext
11903   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11904   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11905   \@bidi@after@Hy@hyperfootnotes
11906   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11907 }
11908 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11909 \bidi@ensure@newcommand*\setSingleSpace[1]{%
11910   \def\m@m@singlespace{#1}%
11911   \def\m@m@footnote@spacing{#1}%
11912   \def\m@m@float@spacing{#1} %
11913 }
11914 \setSingleSpace{1}
11915 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11916 \bidi@ensure@newcommand*\m@m@mmf@prepare{%
11917   \kern-\multiplefootnotemarker
11918   \kern\multiplefootnotemarker\relax}
11919 \bidi@ensure@newlength{\footmarkwidth}
11920 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11921 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11922 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11923 \bidi@ensure@newcommand{\footfootmark}{%
11924   \ifdim\footmarkwidth < \z@
11925     \llap{\hb@xt@ -\footmarkwidth{%
11926       \hss\normalfont\footscript{\@thefnmark}}%
11927       \hspace*{-\footmarkwidth}}}%
11928   \else
11929     \ifdim\footmarkwidth = \z@
11930       {\normalfont\footscript{\@thefnmark}}%
11931     \else
11932       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11933     \fi
11934   \fi}
11935 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11936   \ifdim\footmarkwidth < \z@
11937     \llap{\hb@xt@ -\footmarkwidth{%
11938       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11939       \hspace*{-\footmarkwidth}}}%
11940   \else
11941     \ifdim\footmarkwidth = \z@
11942       {\normalfont\LTRfootscript{\@thefnmark}}%
11943     \else
11944       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11945     \fi
11946   \fi}
11947 \bidi@ensure@newcommand{\RTLfootfootmark}{%

```



```

11948 \ifdim\footmarkwidth < \z@
11949   \llap{\hb@xt@ -\footmarkwidth{%
11950     \hss\normalfont\RTLfootscript{\@thefnmark}}%
11951     \hspace*{-\footmarkwidth}}%
11952 \else
11953   \ifdim\footmarkwidth = \z@
11954     {\normalfont\RTLfootscript{\@thefnmark}}%
11955   \else
11956     \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11957   \fi
11958 \fi}
11959 \footmarkstyle{\textsuperscript{#1}}
11960 \LTRfootmarkstyle{\textsuperscript{#1}}
11961 \RTLfootmarkstyle{\textsuperscript{#1}}
11962 \newcommand*\bidi@normal@footmarkwidth}{%
11963   \setlength{\footmarkwidth}{1em plus .3em minus .3em}%
11964 }
11965 \newcommand*\bidi@star@footmarkwidth}{%
11966   \setlength{\footmarkwidth}{0em plus .3em minus .3em}%
11967 }
11968 \bidi@normal@footmarkwidth
11969 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11970 \bidi@ensure@newcommand*\extrafeetins{%
11971   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11972   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11973   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11974   \extrafeetinshook}
11975 \bidi@ensure@newcommand{\extrafeetinshook}{%
11976   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11977   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11978   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11979   \bidi@ensure@newlength{\footinsdim}
11980   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11981   \bidi@ensure@newcommand{\@preamfntext}{%
11982     \interlinepenalty\interfootnotelinepenalty
11983     \floatingpenalty \@MM
11984     \splittopskip=\footnotesep
11985     \splitmaxdepth=\dp\strutbox
11986     \@parboxrestore}
11987   \def\bidi@ifmulticol#1#2{\@tempswafalse
11988     \ifnum\col@number>\@ne
11989       \ifnum\count\footins>1999 \@tempwattrue \fi
11990     \fi
11991     \if@tempswa #1\else #2\fi
11992 }
11993 \def\bidi@joinfootnotes#1#2#3{%
11994   \ifvoid#1
11995   \else
11996     \@tempskipa\skip#1%
11997     \bidi@ifmulticol{\divide\@tempskipa\col@number}{%
11998       \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11999       \bidi@removexfootskip
12000     \ifvoid\footins
12001       \global\setbox\footins\vbox{#2#3}%

```





```

12002     \else
12003         \global\setbox\footins\vbox{%
12004             \unvbox\footins
12005             \bidi@footskip
12006             #2#3%
12007         }%
12008     \fi
12009 \fi
12010 }
12011 \def\bidi@reinsertfootnote#1#2#3{%
12012     \ifvoid#1%
12013     \else
12014         \insert\footins{#2#3}%
12015     \fi
12016 }
12017 \def\bidi@joinmpfootnotes#1#2#3{%
12018     \ifvoid#1
12019     \else
12020         \@tempskipa\skip#1%
12021         \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12022         \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12023         \bidi@removexfootskip
12024         \ifvoid\@mpfootins
12025             \global\setbox\@mpfootins\vbox{#2#3}%
12026         \else
12027             \global\setbox\@mpfootins\vbox{%
12028                 \unvbox\@mpfootins
12029                 \bidi@footskip
12030                 #2#3%
12031             }%
12032         \fi
12033     \fi
12034 }
12035 \newcount\bidi@absolute@page@count
12036 \bidi@absolute@page@count\@ne
12037 \newcount\bidi@absolute@footnote@count
12038 \bidi@AfterOutputBoxOutputPage{%
12039     \if@filesw
12040         \edef\@tempa{%
12041             \write\@auxout{%
12042                 \string\bidi@finalfootnoteperpage%
12043                 {\noexpand\number\noexpand\bidi@absolute@page@count}%
12044                 {\noexpand\number\noexpand\bidi@absolute@footnote@count}%
12045             }%
12046         }%
12047         \@tempa
12048     \fi
12049 }
12050 \bidi@AtEndOutputPage{%
12051     \global\advance\bidi@absolute@page@count\@ne
12052 }
12053 \newcommand*{\bidi@finalfootnoteperpage}[2]{%
12054     \expandafter\gdef\c@name\bidi@currentpagefinalfootnote@#1\endcsname{#2}%
12055 }

```



```

12056 \newif\if@bidi@finalfootnoteperpage
12057 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12058   \if@bidi@csundef{bidi@currentpagefinalfootnote@@\number\bidi@absolute@page@count}{%
12059     \global\@bidi@finalfootnoteperpagetrue
12060   }{%
12061     \global\@bidi@finalfootnoteperpagefalse
12062     \ifnum\bidi@absolute@footnote@count=\bidi@csuse{bidi@currentpagefinalfootnote@@\number\bidi@absolute@page@count}{%
12063       #1%
12064     }%
12065     \else
12066       #2%
12067     }%
12068   }%
12069 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12070   \bidi@ifafterfinalfootnoteperpage{%
12071     \bidi@reinsertfootnote{#1}{#2}{#3}%
12072   }{%
12073   }%
12074 }
12075 \newcommand*{\bidi@step@absolute@footnote@count}{%
12076   \global\advance\bidi@absolute@footnote@count\@ne
12077 }
12078 \bidi@AfterEndDocumentCheckLabelsRerun{%
12079   \if@bidi@finalfootnoteperpage
12080     \PackageWarningNoLine{bidi}{%
12081       The absolute final footnote is not
12082       known on every page of your
12083       document. Rerun TeX to get the
12084       absolute final footnote on every page
12085       of your document%
12086     }%
12087   \fi
12088 }
12089 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12090   \extrafeetminihook}
12091 \bidi@ensure@newcommand{\extrafeetendmini}{%
12092   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r}
12093 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l}
12094   \extrafeetendminihook}
12095 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12096   \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12097 \def\endminipage{%
12098   \par
12099   \unskip
12100   \m@mdoextrafeetendmini
12101   \ifvoid\@mpfootins
12102   \else
12103     \vskip\skip\@mpfootins
12104     \normalcolor
12105     \footnoterule
12106     \unvbox\@mpfootins
12107   \fi
12108   \@minipagefalse
12109   \color@endgroup

```



```

12110 \egroup
12111 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12112 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12113   \@namedef{@footstart#1}{%
12114     \leftskip=\z@
12115     \rightskip=\z@
12116     \parindent=\z@
12117   }%
12118 }
12119 \newinsert\footinsv@r
12120 \skip\footinsv@r\skip\footins
12121 \count\footinsv@r=1000 % no magnification
12122 \dimen\footinsv@r=\footinsdim
12123 \m@make@footstart{v@r}
12124 \newinsert\footinsv@l
12125 \skip\footinsv@l\skip\footins
12126 \count\footinsv@l=1000 % no magnification
12127 \dimen\footinsv@l=\footinsdim
12128 \m@make@footstart{v@l}
12129 \bidi@ensure@newcommand{\@footgroupv@r}{%
12130 \newinsert\@mpfootinsv@r
12131 \skip\@mpfootinsv@r\skip\@mpfootins
12132 \newinsert\@mpfootinsv@l
12133 \skip\@mpfootinsv@l\skip\@mpfootins
12134 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
12135 \newcount\m@m@k \newdimen\m@m@h
12136 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12137   \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12138   \valign{##\vfill\cr\m@m@dosplits}\endR}}
12139 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12140   \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12141   \valign{##\vfill\cr\m@m@dosplits}\endL}}
12142 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12143   \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12144 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12145   \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12146   \setbox2 \vsplit0 to \dimen0
12147   \unvbox2 }
12148 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12149   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12150   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12151   \@bidi@before@Hy@hyperfootnotes
12152   \let\@footnotetext\@twocolfootnotetext
12153   \let\@LTRfootnotetext\@twocolLTRfootnotetext
12154   \let\@RTLfootnotetext\@twocolRTLfootnotetext
12155   \dimen\footinsv@r=2\footinsdim
12156   \count\footinsv@r=500\relax
12157   \m@make@twocol@footgroup{v@r}%
12158   \let\@footgroupv@r\@twocol@footgroupv@r
12159   \dimen\footinsv@l=2\footinsdim
12160   \count\footinsv@l=500\relax
12161   \bidi@make@twocol@LTRfootgroup{v@l}%
12162   \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12163   \let\@mpfootnotetext\@mptwocolfootnotetext

```



```

12164 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12165 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12166 \@bidi@after@Hy@hyperfootnotes
12167 \m@make@emptwocol@footgroup{v@r}%
12168 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12169 \bidi@make@emptwocol@LTRfootgroup{v@1}%
12170 \let\mp@LTRfootgroupv@1\@mptwocol@LTRfootgroupv@1
12171 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12172 }
12173 \newcommand{\TwoColumnFootnotes}{%
12174 \@namedef{foottextfontv@r}{\foottextfont}%
12175 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
12176 \@bidi@before@Hy@hyperfootnotes
12177 \let\@footnotetext\@TwoColfootnotetext
12178 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12179 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12180 \dimen\footinsv@r=2\footinsdim
12181 \count\footinsv@r=500\relax
12182 \m@make@twocol@footgroup{v@r}%
12183 \let\@footgroupv@r\@twocol@footgroupv@r
12184 \dimen\footinsv@1=2\footinsdim
12185 \count\footinsv@1=500\relax
12186 \bidi@make@twocol@LTRfootgroup{v@1}%
12187 \let\@LTRfootgroupv@1\@twocol@LTRfootgroupv@1
12188 \let\@mpfootnotetext\@mpTwoColfootnotetext
12189 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12190 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12191 \@bidi@after@Hy@hyperfootnotes
12192 \m@make@emptwocol@footgroup{v@r}%
12193 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12194 \bidi@make@emptwocol@LTRfootgroup{v@1}%
12195 \let\mp@LTRfootgroupv@1\@mptwocol@LTRfootgroupv@1
12196 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12197 }
12198 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12199 \if@RTL@footnote
12200 \footinsv@r
12201 \else
12202 \footinsv@1
12203 \fi
12204 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12205 \def\baselinestretch{\m@f@footnote@spacing}%
12206 \reset@font\foottextfont
12207 \@preamfntext
12208 \protected@edef\@currentlabel{%
12209 \c@name p@footnote\endcsname\@thefnmark}%
12210 \color@begingroup
12211 \@twocolfootfmt{#1}%
12212 \color@endgroup}%
12213 \m@mmf@prepare}
12214 \newcommand{\@TwoColfootnotetext}[1]{%
12215 \bidi@step@absolute@footnote@count
12216 \if@RTL@footnote
12217 \bidi@reinsert@footnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1

```



```

12218 \else
12219   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12220 \fi
12221 \global\setbox
12222 \if@RTL@footnote
12223   \footinsv@r
12224 \else
12225   \footinsv@l
12226 \fi
12227 \vbox{%
12228   \unvbox
12229   \if@RTL@footnote
12230     \footinsv@r
12231   \else
12232     \footinsv@l
12233   \fi
12234   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12235   \def\baselinestretch{\m@m@footnote@spacing}%
12236   \reset@font\foottextfont
12237   \@preamfntext
12238   \protected@edef\@currentlabel{%
12239     \csname p@footnote\endcsname\@thefnmark}%
12240   \color@begingroup
12241     \@twocolfootfmt{#1}%
12242   \color@endgroup}%
12243   \m@mmf@prepare
12244   \if@RTL@footnote
12245     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12246   \else
12247     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12248   \fi
12249 }
12250 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12251   \def\baselinestretch{\m@m@footnote@spacing}%
12252   \reset@font\LTRfoottextfont
12253   \@preamfntext
12254   \protected@edef\@currentlabel{%
12255     \csname p@footnote\endcsname\@thefnmark}%
12256   \color@begingroup
12257     \@twocolLTRfootfmt{#1}%
12258   \color@endgroup}%
12259   \m@mmf@prepare}
12260 \newcommand{\@TwoCollTRfootnotetext}[1]{%
12261   \bidi@step@absolute@footnote@count
12262   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12263   \global\setbox\footinsv@l\vbox{%
12264     \unvbox\footinsv@l
12265     \@RTLfalse
12266     \def\baselinestretch{\m@m@footnote@spacing}%
12267     \reset@font\LTRfoottextfont
12268     \@preamfntext
12269     \protected@edef\@currentlabel{%
12270       \csname p@footnote\endcsname\@thefnmark}%
12271     \color@begingroup

```



```

12272 \twocolLTRfootfmt{#1}%
12273 \color@endgroup}%
12274 \m@mmf@prepare
12275 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12276 }
12277 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12278 \def\baselinestretch{\m@m@footnote@spacing}%
12279 \reset@font\RTLfoottextfont
12280 \@preamfntext
12281 \protected@edef\@currentlabel{%
12282 \csname p@footnote\endcsname\@thefnmark}%
12283 \color@begingroup
12284 \@twocolRTLfootfmt{#1}%
12285 \color@endgroup}%
12286 \m@mmf@prepare}
12287 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12288 \bidi@step@absolutefootnote@count
12289 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12290 \global\setbox\footinsv@r\vbox{%
12291 \unvbox\footinsv@r
12292 \@RTLtrue
12293 \def\baselinestretch{\m@m@footnote@spacing}%
12294 \reset@font\RTLfoottextfont
12295 \@preamfntext
12296 \protected@edef\@currentlabel{%
12297 \csname p@footnote\endcsname\@thefnmark}%
12298 \color@begingroup
12299 \@twocolRTLfootfmt{#1}%
12300 \color@endgroup}%
12301 \m@mmf@prepare
12302 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12303 }
12304 \bidi@ensure@newcommand{\@preamtwofmt}{%
12305 \hspace .45\hspace
12306 \parindent=\z@
12307 \tolerance=5000\relax
12308 \leavevmode}
12309 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12310 \@preamtwofmt
12311 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12312 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12313 \@preamtwofmt
12314 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12315 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12316 \@preamtwofmt
12317 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12318 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12319 \global\setbox
12320 \if@RTL@footnote
12321 \@mpfootinsv@r
12322 \else
12323 \@mpfootinsv@l
12324 \fi
12325 \vbox{%

```



```

12326 \unvbox
12327 \if@RTL@footnote
12328 \@mpfootinsv@r
12329 \else
12330 \@mpfootinsv@l
12331 \fi
12332 \if@RTL@footnote@RTLtrue\else@RTLfalse\fi
12333 \def\baselinestretch{\m@m@footnote@spacing}%
12334 \reset@font\foottextfont
12335 \hsize\columnwidth \@parboxrestore
12336 \protected@edef\@currentlabel{%
12337 \csname p@mpfootnote\endcsname\@thefnmark}%
12338 \color@begingroup
12339 \@twocolfootfmt{#1}%
12340 \color@endgroup}%
12341 \m@mmf@prepare}
12342 \newcommand{\@mpTwoColfootnotetext}[1]{%
12343 \if@RTL@footnote
12344 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12345 \else
12346 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12347 \fi
12348 \global\setbox
12349 \if@RTL@footnote
12350 \@mpfootinsv@r
12351 \else
12352 \@mpfootinsv@l
12353 \fi
12354 \vbox{%
12355 \unvbox
12356 \if@RTL@footnote
12357 \@mpfootinsv@r
12358 \else
12359 \@mpfootinsv@l
12360 \fi
12361 \if@RTL@footnote@RTLtrue\else@RTLfalse\fi
12362 \def\baselinestretch{\m@m@footnote@spacing}%
12363 \reset@font\foottextfont
12364 \hsize\columnwidth \@parboxrestore
12365 \protected@edef\@currentlabel{%
12366 \csname p@mpfootnote\endcsname\@thefnmark}%
12367 \color@begingroup
12368 \@twocolfootfmt{#1}%
12369 \color@endgroup}%
12370 \m@mmf@prepare}
12371 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12372 \global\setbox\@mpfootinsv@l\vbox{%
12373 \unvbox\@mpfootinsv@l
12374 \@RTLfalse
12375 \def\baselinestretch{\m@m@footnote@spacing}%
12376 \reset@font\LTRfoottextfont
12377 \hsize\columnwidth \@parboxrestore
12378 \protected@edef\@currentlabel{%
12379 \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12380 \color@begingroup
12381 \@twocolLTRfootfmt{#1}%
12382 \color@endgroup}%
12383 \m@mmf@prepare}
12384 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12385 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12386 \global\setbox\@mpfootinsv@l\vbox{%
12387 \unvbox\@mpfootinsv@l
12388 \@RTLfalse
12389 \def\baselinestretch{\m@m@footnote@spacing}%
12390 \reset@font\LTRfoottextfont
12391 \hsize\columnwidth \@parboxrestore
12392 \protected@edef\@currentlabel{%
12393 \csname p@mpfootnote\endcsname\@thefnmark}%
12394 \color@begingroup
12395 \@twocolLTRfootfmt{#1}%
12396 \color@endgroup}%
12397 \m@mmf@prepare}
12398 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12399 \global\setbox\@mpfootinsv@r\vbox{%
12400 \unvbox\@mpfootinsv@r
12401 \@RTLtrue
12402 \def\baselinestretch{\m@m@footnote@spacing}%
12403 \reset@font\RTLfoottextfont
12404 \hsize\columnwidth \@parboxrestore
12405 \protected@edef\@currentlabel{%
12406 \csname p@mpfootnote\endcsname\@thefnmark}%
12407 \color@begingroup
12408 \@twocolRTLfootfmt{#1}%
12409 \color@endgroup}%
12410 \m@mmf@prepare}
12411 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12412 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12413 \global\setbox\@mpfootinsv@r\vbox{%
12414 \unvbox\@mpfootinsv@r
12415 \@RTLtrue
12416 \def\baselinestretch{\m@m@footnote@spacing}%
12417 \reset@font\RTLfoottextfont
12418 \hsize\columnwidth \@parboxrestore
12419 \protected@edef\@currentlabel{%
12420 \csname p@mpfootnote\endcsname\@thefnmark}%
12421 \color@begingroup
12422 \@twocolRTLfootfmt{#1}%
12423 \color@endgroup}%
12424 \m@mmf@prepare}
12425 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12426 \@namedef{@twocol@footgroup#1}{%
12427 \def\baselinestretch{\m@m@footnote@spacing}%
12428 \hsize\bidi@columnwidth
12429 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12430 \m@r@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12431 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12432 \@namedef{@twocol@LTRfootgroup#1}{%
12433 \def\baselinestretch{\m@m@footnote@spacing}%

```





```

12434 \hsize\ bidi@columnwidth
12435 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12436 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12437 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12438 \@namedef{mptwocol@footgroup#1}{%
12439 \def\baselinestretch{\m@m@footnote@spacing}%
12440 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12441 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12442 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12443 \@namedef{mptwocol@LTRfootgroup#1}{%
12444 \def\baselinestretch{\m@m@footnote@spacing}%
12445 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12446 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12447 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12448 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12449 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12450 \@bidi@before@Hy@hyperfootnotes
12451 \let\@footnotetext\@threecolfootnotetext
12452 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12453 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12454 \dimen\footinsv@r=3\footinsdim
12455 \count\footinsv@r=333\relax
12456 \m@make@threecol@footgroup{v@r}%
12457 \let\@footgroupv@r\@threecol@footgroupv@r
12458 \dimen\footinsv@l=3\footinsdim
12459 \count\footinsv@l=333\relax
12460 \bidi@make@threecol@LTRfootgroup{v@l}%
12461 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12462 \let\@mpfootnotetext\@mpthreecolfootnotetext
12463 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12464 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12465 \@bidi@after@Hy@hyperfootnotes
12466 \m@make@mpthreecol@footgroup{v@r}%
12467 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12468 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12469 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12470 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12471 }
12472 \newcommand{\ThreeColumnFootnotes}{%
12473 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12474 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12475 \@bidi@before@Hy@hyperfootnotes
12476 \let\@footnotetext\@ThreeColfootnotetext
12477 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12478 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12479 \dimen\footinsv@r=3\footinsdim
12480 \count\footinsv@r=333\relax
12481 \m@make@threecol@footgroup{v@r}%
12482 \let\@footgroupv@r\@threecol@footgroupv@r
12483 \dimen\footinsv@l=3\footinsdim
12484 \count\footinsv@l=333\relax
12485 \bidi@make@threecol@LTRfootgroup{v@l}%
12486 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12487 \let\@mpfootnotetext\@mpThreeColfootnotetext

```



```

12488 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12489 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12490 \@bidi@after@Hy@hyperfootnotes
12491 \m@make@mpthreecol@footgroup{v@r}%
12492 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12493 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12494 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12495 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12496 }
12497 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12498 \if@RTL@footnote
12499 \footinsv@r
12500 \else
12501 \footinsv@l
12502 \fi
12503 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12504 \def\baselinestretch{\m@footnote@spacing}%
12505 \reset@font\foottextfont
12506 \@preamfntext
12507 \protected@edef\@currentlabel{%
12508 \csname p@footnote\endcsname\@thefnmark}%
12509 \color@begingroup
12510 \@threecolfootfmt{#1}%
12511 \color@endgroup}\m@mmf@prepare}
12512 \newcommand{\@ThreeColfootnotetext}[1]{%
12513 \bidi@step@absolute@footnote@count
12514 \if@RTL@footnote
12515 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12516 \else
12517 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12518 \fi
12519 \global\setbox
12520 \if@RTL@footnote
12521 \footinsv@r
12522 \else
12523 \footinsv@l
12524 \fi
12525 \vbox{%
12526 \unvbox
12527 \if@RTL@footnote
12528 \footinsv@r
12529 \else
12530 \footinsv@l
12531 \fi
12532 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12533 \def\baselinestretch{\m@footnote@spacing}%
12534 \reset@font\foottextfont
12535 \@preamfntext
12536 \protected@edef\@currentlabel{%
12537 \csname p@footnote\endcsname\@thefnmark}%
12538 \color@begingroup
12539 \@threecolfootfmt{#1}%
12540 \color@endgroup}\m@mmf@prepare
12541 \if@RTL@footnote

```



```

12542 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12543 \else
12544 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12545 \fi
12546 }
12547 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12548 \def\baselinestretch{\m@m@footnote@spacing}%
12549 \reset@font\LTRfoottextfont
12550 \@preamfntext
12551 \protected@edef\@currentlabel{%
12552 \csname p@footnote\endcsname\@thefnmark}%
12553 \color@begingroup
12554 \@threecolLTRfootfmt{#1}%
12555 \color@endgroup}\m@mmf@prepare}
12556 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12557 \bidi@step@absolute@footnote@count
12558 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12559 \global\setbox\footinsv@l\vbox{%
12560 \unvbox\footinsv@l
12561 \@RTLfalse
12562 \def\baselinestretch{\m@m@footnote@spacing}%
12563 \reset@font\LTRfoottextfont
12564 \@preamfntext
12565 \protected@edef\@currentlabel{%
12566 \csname p@footnote\endcsname\@thefnmark}%
12567 \color@begingroup
12568 \@threecolLTRfootfmt{#1}%
12569 \color@endgroup}\m@mmf@prepare
12570 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12571 }
12572 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12573 \def\baselinestretch{\m@m@footnote@spacing}%
12574 \reset@font\RTLfoottextfont
12575 \@preamfntext
12576 \protected@edef\@currentlabel{%
12577 \csname p@footnote\endcsname\@thefnmark}%
12578 \color@begingroup
12579 \@threecolRTLfootfmt{#1}%
12580 \color@endgroup}\m@mmf@prepare}
12581 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12582 \bidi@step@absolute@footnote@count
12583 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12584 \global\setbox\footinsv@r\vbox{%
12585 \unvbox\footinsv@r
12586 \@RTLtrue
12587 \def\baselinestretch{\m@m@footnote@spacing}%
12588 \reset@font\RTLfoottextfont
12589 \@preamfntext
12590 \protected@edef\@currentlabel{%
12591 \csname p@footnote\endcsname\@thefnmark}%
12592 \color@begingroup
12593 \@threecolRTLfootfmt{#1}%
12594 \color@endgroup}\m@mmf@prepare
12595 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```



```

12596 }
12597 \bidi@ensure@newcommand{\@preamthreefmt}{%
12598   \hsize .3\hsize
12599   \parindent=\z@
12600   \tolerance=5000\relax
12601   \leavevmode}
12602 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12603   \@preamthreefmt
12604   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12605 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12606   \@preamthreefmt
12607   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12608 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12609   \@preamthreefmt
12610   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12611 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12612   \global\setbox
12613     \if@RTL@footnote
12614     \@mpfootinsv@r
12615   \else
12616     \@mpfootinsv@l
12617   \fi
12618   \vbox{%
12619     \unvbox
12620     \if@RTL@footnote
12621     \@mpfootinsv@r
12622   \else
12623     \@mpfootinsv@l
12624   \fi
12625   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12626   \def\baselinestretch{\m@m@footnote@spacing}%
12627   \reset@font\foottextfont
12628   \hsize\columnwidth \@parboxrestore
12629   \protected@edef\@currentlabel{%
12630     \csname p@mpfootnote\endcsname\@thefnmark}%
12631   \color@begingroup
12632     \@threecolfootfmt{#1}%
12633   \color@endgroup}\m@m@prepare}
12634 \newcommand{\@mpThreeColfootnotetext}[1]{%
12635   \if@RTL@footnote
12636     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12637   \else
12638     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12639   \fi
12640   \global\setbox
12641     \if@RTL@footnote
12642     \@mpfootinsv@r
12643   \else
12644     \@mpfootinsv@l
12645   \fi
12646   \vbox{%
12647     \unvbox
12648     \if@RTL@footnote
12649     \@mpfootinsv@r

```



```

12650 \else
12651   \@mpfootinsv@l
12652 \fi
12653   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12654   \def\baselinestretch{\m@m@footnote@spacing}%
12655   \reset@font\foottextfont
12656   \hsize\columnwidth \@parboxrestore
12657   \protected@edef\@currentlabel{%
12658     \csname p@mpfootnote\endcsname\@thefnmark}%
12659   \color@begingroup
12660     \@threecolfootfmt{#1}%
12661   \color@endgroup}\m@mmf@prepare}
12662 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12663   \global\setbox\@mpfootinsv@l\vbox{%
12664     \unvbox\@mpfootinsv@l
12665     \@RTLfalse
12666     \def\baselinestretch{\m@m@footnote@spacing}%
12667     \reset@font\LTRfoottextfont
12668     \hsize\columnwidth \@parboxrestore
12669     \protected@edef\@currentlabel{%
12670       \csname p@mpfootnote\endcsname\@thefnmark}%
12671     \color@begingroup
12672       \@threecolLTRfootfmt{#1}%
12673     \color@endgroup}\m@mmf@prepare}
12674 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12675   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12676   \global\setbox\@mpfootinsv@l\vbox{%
12677     \unvbox\@mpfootinsv@l
12678     \@RTLfalse
12679     \def\baselinestretch{\m@m@footnote@spacing}%
12680     \reset@font\LTRfoottextfont
12681     \hsize\columnwidth \@parboxrestore
12682     \protected@edef\@currentlabel{%
12683       \csname p@mpfootnote\endcsname\@thefnmark}%
12684     \color@begingroup
12685       \@threecolLTRfootfmt{#1}%
12686     \color@endgroup}\m@mmf@prepare}
12687 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12688   \global\setbox\@mpfootinsv@r\vbox{%
12689     \unvbox\@mpfootinsv@r
12690     \@RTLtrue
12691     \def\baselinestretch{\m@m@footnote@spacing}%
12692     \reset@font\RTLfoottextfont
12693     \hsize\columnwidth \@parboxrestore
12694     \protected@edef\@currentlabel{%
12695       \csname p@mpfootnote\endcsname\@thefnmark}%
12696     \color@begingroup
12697       \@threecolRTLfootfmt{#1}%
12698     \color@endgroup}\m@mmf@prepare}
12699 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12700   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12701   \global\setbox\@mpfootinsv@r\vbox{%
12702     \unvbox\@mpfootinsv@r
12703     \@RTLtrue

```



```

12704 \def\baselinestretch{\m@m@footnote@spacing}%
12705 \reset@font\RTLfoottextfont
12706 \hsize\columnwidth \@parboxrestore
12707 \protected@edef\@currentlabel{%
12708 \csname p@m@footnote\endcsname\@thefnmark}%
12709 \color@begingroup
12710 \@threecolRTLfootfmt{#1}%
12711 \color@endgroup}\m@mmf@prepare}
12712 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12713 \@namedef{@threecol@footgroup#1}{%
12714 \def\baselinestretch{\m@m@footnote@spacing}%
12715 \hsize\ bidi@columnwidth
12716 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12717 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12718 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12719 \@namedef{@threecol@LTRfootgroup#1}{%
12720 \def\baselinestretch{\m@m@footnote@spacing}%
12721 \hsize\ bidi@columnwidth
12722 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12723 \ bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12724 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12725 \@namedef{@mpthreecol@footgroup#1}{%
12726 \def\baselinestretch{\m@m@footnote@spacing}%
12727 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12728 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12729 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12730 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12731 \def\baselinestretch{\m@m@footnote@spacing}%
12732 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12733 \ bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12734 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12735 \@namedef{foottextfontv@r}{\foottextfont}% \ [RS]
12736 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12737 \@bidi@before@Hy@hyperfootnotes
12738 \let\@footnotetext\@fourcolfootnotetext
12739 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12740 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12741 \dimen\footinsv@r=4\footinsdim
12742 \count\footinsv@r=250\relax
12743 \m@make@fourcol@footgroup{v@r}%
12744 \let\@footgroupv@r\@fourcol@footgroupv@r
12745 \dimen\footinsv@l=4\footinsdim
12746 \count\footinsv@l=250\relax
12747 \bidi@make@fourcol@LTRfootgroup{v@l}%
12748 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12749 \let\@mpfootnotetext\@mpfourcolfootnotetext
12750 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12751 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12752 \@bidi@after@Hy@hyperfootnotes
12753 \m@make@mpfourcol@footgroup{v@r}%
12754 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12755 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12756 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12757 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

12758 }
12759 \newcommand{\FourColumnFootnotes}{%
12760   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12761   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12762   \@bidi@before@Hy@hyperfootnotes
12763   \let\@footnotetext\@FourColfootnotetext
12764   \let\@LTRfootnotetext\@FourColLTRfootnotetext
12765   \let\@RTLfootnotetext\@FourColRTLfootnotetext
12766   \dimen\footinsv@r=4\footinsdim
12767   \count\footinsv@r=250\relax
12768   \m@make@fourcol@footgroup{v@r}%
12769   \let\@footgroupv@r\@fourcol@footgroupv@r
12770   \dimen\footinsv@l=4\footinsdim
12771   \count\footinsv@l=250\relax
12772   \bidi@make@fourcol@LTRfootgroup{v@l}%
12773   \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12774   \let\@mpfootnotetext\@mpFourColfootnotetext
12775   \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12776   \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12777   \@bidi@after@Hy@hyperfootnotes
12778   \m@make@mpfourcol@footgroup{v@r}%
12779   \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12780   \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12781   \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12782   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12783 }
12784 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12785   \if@RTL@footnote
12786     \footinsv@r
12787   \else
12788     \footinsv@l
12789   \fi
12790 { \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12791   \def\baselinestretch{\m@footnote@spacing}%
12792   \reset@font\foottextfont
12793   \@preamfntext
12794   \protected@edef\@currentlabel{%
12795     \csname p@footnote\endcsname\@thefnmark}%
12796   \color@begingroup
12797     \@fourcolfootfmt{#1}%
12798   \color@endgroup}%
12799   \m@mmf@prepare}
12800 \newcommand{\@FourColfootnotetext}[1]{%
12801   \bidi@step@absolute@footnote@count
12802   \if@RTL@footnote
12803     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12804   \else
12805     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12806   \fi
12807   \global\setbox
12808   \if@RTL@footnote
12809     \footinsv@r
12810   \else
12811     \footinsv@l

```



```

12812 \fi
12813 \vbox{%
12814 \unvbox
12815 \if@RTL@footnote
12816 \footinsv@r
12817 \else
12818 \footinsv@l
12819 \fi
12820 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12821 \def\baselinestretch{\m@m@footnote@spacing}%
12822 \reset@font\foottextfont
12823 \@preamfntext
12824 \protected@edef\@currentlabel{%
12825 \csname p@footnote\endcsname\@thefnmark}%
12826 \color@begingroup
12827 \@fourcolfootfmt{#1}%
12828 \color@endgroup}%
12829 \m@mmf@prepare
12830 \if@RTL@footnote
12831 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12832 \else
12833 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12834 \fi
12835 }
12836 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12837 \def\baselinestretch{\m@m@footnote@spacing}%
12838 \reset@font\LTRfoottextfont
12839 \@preamfntext
12840 \protected@edef\@currentlabel{%
12841 \csname p@footnote\endcsname\@thefnmark}%
12842 \color@begingroup
12843 \@fourcolLTRfootfmt{#1}%
12844 \color@endgroup}%
12845 \m@mmf@prepare}
12846 \newcommand{\@FourColLTRfootnotetext}[1]{%
12847 \bidi@step@absolute@footnote@count
12848 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12849 \global\setbox\footinsv@l\vbox{%
12850 \unvbox\footinsv@l
12851 \@RTLfalse%
12852 \def\baselinestretch{\m@m@footnote@spacing}%
12853 \reset@font\LTRfoottextfont
12854 \@preamfntext
12855 \protected@edef\@currentlabel{%
12856 \csname p@footnote\endcsname\@thefnmark}%
12857 \color@begingroup
12858 \@fourcolLTRfootfmt{#1}%
12859 \color@endgroup}%
12860 \m@mmf@prepare
12861 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12862 }
12863 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12864 \def\baselinestretch{\m@m@footnote@spacing}%
12865 \reset@font\RTLfoottextfont

```





```

12866 \@preamfntext
12867 \protected@edef\@currentlabel{%
12868   \csname p@footnote\endcsname\@thefnmark}%
12869 \color@begingroup
12870   \@fourcolRTLfootfmt{#1}%
12871 \color@endgroup}%
12872 \m@mmf@prepare}
12873 \newcommand{\@FourColRTLfootnotetext}[1]{%
12874   \bidi@step@absolute@footnote@count
12875   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12876   \global\setbox\footinsv@r\vbox{%
12877     \unvbox\footinsv@r
12878     \@RTLtrue
12879     \def\baselinestretch{\m@m@footnote@spacing}%
12880     \reset@font\RTLfoottextfont
12881     \@preamfntext
12882     \protected@edef\@currentlabel{%
12883       \csname p@footnote\endcsname\@thefnmark}%
12884     \color@begingroup
12885       \@fourcolRTLfootfmt{#1}%
12886     \color@endgroup}%
12887     \m@mmf@prepare
12888     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12889   }
12890 \bidi@ensure@newcommand{\@preamfourfmt}{%
12891   \hspace .25\hsize
12892   \parindent=\z@
12893   \tolerance=5000\relax
12894   \leavevmode}
12895 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12896   \@preamfourfmt
12897   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12898 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12899   \@preamfourfmt
12900   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12901 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12902   \@preamfourfmt
12903   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12904 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12905   \global\setbox
12906     \if@RTL@footnote
12907     \@mpfootinsv@r
12908   \else
12909     \@mpfootinsv@l
12910   \fi
12911   \vbox{%
12912     \unvbox
12913     \if@RTL@footnote
12914     \@mpfootinsv@r
12915   \else
12916     \@mpfootinsv@l
12917   \fi
12918   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12919   \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12920 \reset@font\foottextfont
12921 \hsize\columnwidth \@parboxrestore
12922 \protected@edef\@currentlabel{%
12923 \csname p@mpfootnote\endcsname\@thefnmark}%
12924 \color@begingroup
12925 \@fourcolfootfmt{#1}%
12926 \color@endgroup}%
12927 \m@mmf@prepare}
12928 \newcommand{\@mpFourColfootnotetext}[1]{%
12929 \if@RTL@footnote
12930 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12931 \else
12932 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12933 \fi
12934 \global\setbox
12935 \if@RTL@footnote
12936 \@mpfootinsv@r
12937 \else
12938 \@mpfootinsv@l
12939 \fi
12940 \vbox{%
12941 \unvbox
12942 \if@RTL@footnote
12943 \@mpfootinsv@r
12944 \else
12945 \@mpfootinsv@l
12946 \fi
12947 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12948 \def\baselinestretch{\m@m@footnote@spacing}%
12949 \reset@font\foottextfont
12950 \hsize\columnwidth \@parboxrestore
12951 \protected@edef\@currentlabel{%
12952 \csname p@mpfootnote\endcsname\@thefnmark}%
12953 \color@begingroup
12954 \@fourcolfootfmt{#1}%
12955 \color@endgroup}%
12956 \m@mmf@prepare}
12957 \bidi@ensure@newcommand{\@mpfourcollTRfootnotetext}[1]{%
12958 \global\setbox\@mpfootinsv@l\vbox{%
12959 \unvbox\@mpfootinsv@l
12960 \@RTLfalse
12961 \def\baselinestretch{\m@m@footnote@spacing}%
12962 \reset@font\LTRfoottextfont
12963 \hsize\columnwidth \@parboxrestore
12964 \protected@edef\@currentlabel{%
12965 \csname p@mpfootnote\endcsname\@thefnmark}%
12966 \color@begingroup
12967 \@fourcollTRfootfmt{#1}%
12968 \color@endgroup}%
12969 \m@mmf@prepare}
12970 \newcommand{\@mpFourCollTRfootnotetext}[1]{%
12971 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12972 \global\setbox\@mpfootinsv@l\vbox{%
12973 \unvbox\@mpfootinsv@l

```



```

12974 \RTLfalse
12975 \def\baselinestretch{\m@m@footnote@spacing}%
12976 \reset@font\LTRfoottextfont
12977 \hsize\columnwidth \@parboxrestore
12978 \protected@edef\@currentlabel{%
12979 \csname p@mpfootnote\endcsname\@thefnmark}%
12980 \color@begingroup
12981 \@fourcolLTRfootfmt{#1}%
12982 \color@endgroup}%
12983 \m@mmf@prepare}
12984 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12985 \global\setbox\@mpfootinsv@r\vbox{%
12986 \unvbox\@mpfootinsv@r
12987 \RTLtrue
12988 \def\baselinestretch{\m@m@footnote@spacing}%
12989 \reset@font\RTLfoottextfont
12990 \hsize\columnwidth \@parboxrestore
12991 \protected@edef\@currentlabel{%
12992 \csname p@mpfootnote\endcsname\@thefnmark}%
12993 \color@begingroup
12994 \@fourcolRTLfootfmt{#1}%
12995 \color@endgroup}%
12996 \m@mmf@prepare}
12997 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
12998 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12999 \global\setbox\@mpfootinsv@r\vbox{%
13000 \unvbox\@mpfootinsv@r
13001 \RTLtrue
13002 \def\baselinestretch{\m@m@footnote@spacing}%
13003 \reset@font\RTLfoottextfont
13004 \hsize\columnwidth \@parboxrestore
13005 \protected@edef\@currentlabel{%
13006 \csname p@mpfootnote\endcsname\@thefnmark}%
13007 \color@begingroup
13008 \@fourcolRTLfootfmt{#1}%
13009 \color@endgroup}%
13010 \m@mmf@prepare}
13011 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13012 \@namedef{@fourcol@footgroup#1}{%
13013 \def\baselinestretch{\m@m@footnote@spacing}%
13014 \hsize\bidi@columnwidth
13015 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13016 \m@r@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13017 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13018 \@namedef{@fourcol@LTRfootgroup#1}{%
13019 \def\baselinestretch{\m@m@footnote@spacing}%
13020 \hsize\bidi@columnwidth
13021 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13022 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13023 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13024 \@namedef{@mpfourcol@footgroup#1}{%
13025 \def\baselinestretch{\m@m@footnote@spacing}%
13026 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13027 \m@r@rigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}}

```



```

13028 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13029 \@namedef{@mpfourcol@LTRfootgroup#1}{%
13030 \def\baselinestretch{\m@#footnote@spacing}%
13031 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13032 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}
13033 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13034 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13035 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13036 \@bidi@before@Hy@hyperfootnotes
13037 \let\@footnotetext\@fivecolfootnotetext
13038 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13039 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13040 \dimen\footinsv@r=5\footinsdim
13041 \count\footinsv@r=200\relax
13042 \m@make@fivecol@footgroup{v@r}%
13043 \let\@footgroupv@r\@fivecol@footgroupv@r
13044 \dimen\footinsv@l=5\footinsdim
13045 \count\footinsv@l=200\relax
13046 \bidi@make@fivecol@LTRfootgroup{v@l}%
13047 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13048 \let\@mpfootnotetext\@mpfivecolfootnotetext
13049 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13050 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13051 \@bidi@after@Hy@hyperfootnotes
13052 \m@make@mpfivecol@footgroup{v@r}%
13053 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13054 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13055 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13056 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13057 }
13058 \newcommand{\FiveColumnFootnotes}{%
13059 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13060 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13061 \@bidi@before@Hy@hyperfootnotes
13062 \let\@footnotetext\@FiveColfootnotetext
13063 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13064 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13065 \dimen\footinsv@r=5\footinsdim
13066 \count\footinsv@r=200\relax
13067 \m@make@fivecol@footgroup{v@r}%
13068 \let\@footgroupv@r\@fivecol@footgroupv@r
13069 \dimen\footinsv@l=5\footinsdim
13070 \count\footinsv@l=200\relax
13071 \bidi@make@fivecol@LTRfootgroup{v@l}%
13072 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13073 \let\@mpfootnotetext\@mpFiveColfootnotetext
13074 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13075 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13076 \@bidi@after@Hy@hyperfootnotes
13077 \m@make@mpfivecol@footgroup{v@r}%
13078 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13079 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13080 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13081 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

13082 }
13083 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13084   \if@RTL@footnote
13085     \footinsv@r
13086   \else
13087     \footinsv@l
13088   \fi
13089 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13090 \def\baselinestretch{\m@m@footnote@spacing}%
13091 \reset@font\foottextfont
13092 \@preamfntext
13093 \protected@edef\@currentlabel{%
13094   \csname p@footnote\endcsname\@thefnmark}%
13095 \color@begingroup
13096   \@fivecolfootfmt{#1}%
13097 \color@endgroup}%
13098 \m@mmf@prepare}
13099 \newcommand{\@FiveColfootnotetext}[1]{%
13100 \bidi@step@absolute@footnote@count
13101 \if@RTL@footnote
13102   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13103 \else
13104   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13105 \fi
13106 \global\setbox
13107 \if@RTL@footnote
13108   \footinsv@r
13109 \else
13110   \footinsv@l
13111 \fi
13112 \vbox{%
13113 \unvbox
13114 \if@RTL@footnote
13115   \footinsv@r
13116 \else
13117   \footinsv@l
13118 \fi
13119 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13120 \def\baselinestretch{\m@m@footnote@spacing}%
13121 \reset@font\foottextfont
13122 \@preamfntext
13123 \protected@edef\@currentlabel{%
13124   \csname p@footnote\endcsname\@thefnmark}%
13125 \color@begingroup
13126   \@fivecolfootfmt{#1}%
13127 \color@endgroup}%
13128 \m@mmf@prepare
13129 \if@RTL@footnote
13130   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13131 \else
13132   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13133 \fi
13134 }
13135 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%

```



```

13136 \def\baselinestretch{\m@m@footnote@spacing}%
13137 \reset@font\LTRfoottextfont
13138 \@preamfntext
13139 \protected@edef\@currentlabel{%
13140   \csname p@footnote\endcsname\@thefnmark}%
13141 \color@begingroup
13142   \@fivecolLTRfootfmt{#1}%
13143 \color@endgroup}%
13144 \m@mmf@prepare}
13145 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13146   \bidi@step@absolute@footnote@count
13147   \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
13148   \global\setbox\footinsv@l\vbox{%
13149     \unvbox\footinsv@l
13150     \RTLfalse
13151   \def\baselinestretch{\m@m@footnote@spacing}%
13152   \reset@font\LTRfoottextfont
13153   \@preamfntext
13154   \protected@edef\@currentlabel{%
13155     \csname p@footnote\endcsname\@thefnmark}%
13156   \color@begingroup
13157     \@fivecolLTRfootfmt{#1}%
13158   \color@endgroup}%
13159   \m@mmf@prepare
13160   \bidi@reinsert@final@footnote@perpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13161 }
13162 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13163   \def\baselinestretch{\m@m@footnote@spacing}%
13164   \reset@font\RTLfoottextfont
13165   \@preamfntext
13166   \protected@edef\@currentlabel{%
13167     \csname p@footnote\endcsname\@thefnmark}%
13168   \color@begingroup
13169     \@fivecolRTLfootfmt{#1}%
13170   \color@endgroup}%
13171   \m@mmf@prepare}
13172 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13173   \bidi@step@absolute@footnote@count
13174   \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13175   \global\setbox\footinsv@r\vbox{%
13176     \unvbox\footinsv@r
13177     \RTLtrue
13178   \def\baselinestretch{\m@m@footnote@spacing}%
13179   \reset@font\RTLfoottextfont
13180   \@preamfntext
13181   \protected@edef\@currentlabel{%
13182     \csname p@footnote\endcsname\@thefnmark}%
13183   \color@begingroup
13184     \@fivecolRTLfootfmt{#1}%
13185   \color@endgroup}%
13186   \m@mmf@prepare
13187   \bidi@reinsert@final@footnote@perpage\footinsv@r\@footstartv@r\@footgroupv@r
13188 }
13189 \bidi@ensure@newcommand{\@preamfivefmt}{%

```



```

13190 \hsize .2\hsize
13191 \parindent=\z@
13192 \tolerance=5000\relax
13193 \leavevmode}
13194 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13195 \@preamfivefmt
13196 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13197 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13198 \@preamfivefmt
13199 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13200 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13201 \@preamfivefmt
13202 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13203 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13204 \global\setbox
13205 \if@RTL@footnote
13206 \@mpfootinsv@r
13207 \else
13208 \@mpfootinsv@l
13209 \fi
13210 \vbox{%
13211 \unvbox
13212 \if@RTL@footnote
13213 \@mpfootinsv@r
13214 \else
13215 \@mpfootinsv@l
13216 \fi
13217 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13218 \def\baselinestretch{\m@m@footnote@spacing}%
13219 \reset@font\foottextfont
13220 \hsize\columnwidth \@parboxrestore
13221 \protected@edef\@currentlabel{%
13222 \csname p@mpfootnote\endcsname\@thefnmark}%
13223 \color@begingroup
13224 \@fivecolfootfmt{#1}%
13225 \color@endgroup}%
13226 \m@mmf@prepare}
13227 \newcommand{\@mpFiveColfootnotetext}[1]{%
13228 \if@RTL@footnote
13229 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13230 \else
13231 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13232 \fi
13233 \global\setbox
13234 \if@RTL@footnote
13235 \@mpfootinsv@r
13236 \else
13237 \@mpfootinsv@l
13238 \fi
13239 \vbox{%
13240 \unvbox
13241 \if@RTL@footnote
13242 \@mpfootinsv@r
13243 \else

```



```

13244 \mpfootinsv@l
13245 \fi
13246 \if@RTL@footnote@RTLtrue\else@RTLfalse\fi
13247 \def\baselinestretch{\m@m@footnote@spacing}%
13248 \reset@font\foottextfont
13249 \hsize\columnwidth \@parboxrestore
13250 \protected@edef\@currentlabel{%
13251 \csname p@mpfootnote\endcsname\@thefnmark}%
13252 \color@begingroup
13253 \@fivecolfootfmt{#1}%
13254 \color@endgroup}%
13255 \m@mmf@prepare}
13256 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13257 \global\setbox\@mpfootinsv@l\vbox{%
13258 \unvbox\@mpfootinsv@l
13259 \RTLfalse
13260 \def\baselinestretch{\m@m@footnote@spacing}%
13261 \reset@font\LTRfoottextfont
13262 \hsize\columnwidth \@parboxrestore
13263 \protected@edef\@currentlabel{%
13264 \csname p@mpfootnote\endcsname\@thefnmark}%
13265 \color@begingroup
13266 \@fivecolLTRfootfmt{#1}%
13267 \color@endgroup}%
13268 \m@mmf@prepare}
13269 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13270 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13271 \global\setbox\@mpfootinsv@l\vbox{%
13272 \unvbox\@mpfootinsv@l
13273 \RTLfalse
13274 \def\baselinestretch{\m@m@footnote@spacing}%
13275 \reset@font\LTRfoottextfont
13276 \hsize\columnwidth \@parboxrestore
13277 \protected@edef\@currentlabel{%
13278 \csname p@mpfootnote\endcsname\@thefnmark}%
13279 \color@begingroup
13280 \@fivecolLTRfootfmt{#1}%
13281 \color@endgroup}%
13282 \m@mmf@prepare}
13283 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13284 \global\setbox\@mpfootinsv@r\vbox{%
13285 \unvbox\@mpfootinsv@r
13286 \RTLtrue
13287 \def\baselinestretch{\m@m@footnote@spacing}%
13288 \reset@font\RTLfoottextfont
13289 \hsize\columnwidth \@parboxrestore
13290 \protected@edef\@currentlabel{%
13291 \csname p@mpfootnote\endcsname\@thefnmark}%
13292 \color@begingroup
13293 \@fivecolRTLfootfmt{#1}%
13294 \color@endgroup}%
13295 \m@mmf@prepare}
13296 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13297 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l

```





```

13298 \global\setbox\@mpfootinsv@r\vbox{%
13299   \unvbox\@mpfootinsv@r
13300   \RTLtrue
13301   \def\baselinestretch{\m@m@footnote@spacing}%
13302   \reset@font\RTLfoottextfont
13303   \hsize\columnwidth \@parboxrestore
13304   \protected@edef\@currentlabel{%
13305     \csname p@mpfootnote\endcsname\@thefnmark}%
13306   \color@begingroup
13307     \@fivecolRTLfootfmt{#1}%
13308   \color@endgroup}%
13309   \m@mmf@prepare}
13310 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13311   \@namedef{@fivecol@footgroup#1}{%
13312     \def\baselinestretch{\m@m@footnote@spacing}%
13313     \hsize\bidi@columnwidth
13314     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13315     \m@r@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13316 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13317   \@namedef{@fivecol@LTRfootgroup#1}{%
13318     \def\baselinestretch{\m@m@footnote@spacing}%
13319     \hsize\bidi@columnwidth
13320     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13321     \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13322 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13323   \@namedef{@mpfivecol@footgroup#1}{%
13324     \def\baselinestretch{\m@m@footnote@spacing}%
13325     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13326     \m@r@rigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13327 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13328   \@namedef{@mpfivecol@LTRfootgroup#1}{%
13329     \def\baselinestretch{\m@m@footnote@spacing}%
13330     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13331     \bidi@LTR@rigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13332 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13333   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13334   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13335   \@bidi@before@Hy@hyperfootnotes
13336   \let\@footnotetext\@sixcolfootnotetext
13337   \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13338   \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13339   \dimen\footinsv@r=6\footinsdim
13340   \count\footinsv@r=166\relax
13341   \m@make@sixcol@footgroup{v@r}%
13342   \let\@footgroupv@r\@sixcol@footgroupv@r
13343   \dimen\footinsv@l=6\footinsdim
13344   \count\footinsv@l=166\relax
13345   \bidi@make@sixcol@LTRfootgroup{v@l}%
13346   \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13347   \let\@mpfootnotetext\@mpsixcolfootnotetext
13348   \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
13349   \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
13350   \@bidi@after@Hy@hyperfootnotes
13351   \m@make@mpsixcol@footgroup{v@r}%

```



```

13352 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13353 \bidi@make@mpsixcol@LTRfootgroup{v@1}%
13354 \let\mp@LTRfootgroupv@1\@mpsixcol@LTRfootgroupv@1
13355 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13356 }
13357 \newcommand{\SixColumnFootnotes}{%
13358 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13359 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
13360 \@bidi@before@Hy@hyperfootnotes
13361 \let\@footnotetext\@SixColfootnotetext
13362 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13363 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13364 \dimen\footinsv@r=6\footinsdim
13365 \count\footinsv@r=166\relax
13366 \m@make@sixcol@footgroup{v@r}%
13367 \let\@footgroupv@r\@sixcol@footgroupv@r
13368 \dimen\footinsv@1=6\footinsdim
13369 \count\footinsv@1=166\relax
13370 \bidi@make@sixcol@LTRfootgroup{v@1}%
13371 \let\@LTRfootgroupv@1\@sixcol@LTRfootgroupv@1
13372 \let\@mpfootnotetext\@mpSixColfootnotetext
13373 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13374 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13375 \@bidi@after@Hy@hyperfootnotes
13376 \m@make@mpsixcol@footgroup{v@r}%
13377 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13378 \bidi@make@mpsixcol@LTRfootgroup{v@1}%
13379 \let\mp@LTRfootgroupv@1\@mpsixcol@LTRfootgroupv@1
13380 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13381 }
13382 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13383 \if@RTL@footnote
13384 \footinsv@r
13385 \else
13386 \footinsv@1
13387 \fi
13388 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13389 \def\baselinestretch{\m@f@footnote@spacing}%
13390 \reset@font\foottextfont
13391 \@preamfntext
13392 \protected@edef\@currentlabel{%
13393 \csname p@footnote\endcsname\@thefnmark}%
13394 \color@begingroup
13395 \@sixcolfootfmt{#1}%
13396 \color@endgroup}%
13397 \m@mmf@prepare}
13398 \newcommand{\@SixColfootnotetext}[1]{%
13399 \bidi@step@absolute@footnote@count
13400 \if@RTL@footnote
13401 \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13402 \else
13403 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13404 \fi
13405 \global\setbox

```



```

13406 \if@RTL@footnote
13407   \footinsv@r
13408 \else
13409   \footinsv@l
13410 \fi
13411 \vbox{%
13412   \unvbox
13413   \if@RTL@footnote
13414     \footinsv@r
13415   \else
13416     \footinsv@l
13417   \fi
13418   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13419   \def\baselinestretch{\m@m@footnote@spacing}%
13420   \reset@font\foottextfont
13421   \@preamfntext
13422   \protected@edef\@currentlabel{%
13423     \csname p@footnote\endcsname\@thefnmark}%
13424   \color@begingroup
13425     \@sixcolfootfmt{#1}%
13426   \color@endgroup}%
13427   \m@mmf@prepare
13428   \if@RTL@footnote
13429     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13430   \else
13431     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13432   \fi
13433 }
13434 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13435   \def\baselinestretch{\m@m@footnote@spacing}%
13436   \reset@font\LTRfoottextfont
13437   \@preamfntext
13438   \protected@edef\@currentlabel{%
13439     \csname p@footnote\endcsname\@thefnmark}%
13440   \color@begingroup
13441     \@sixcolLTRfootfmt{#1}%
13442   \color@endgroup}%
13443   \m@mmf@prepare}
13444 \newcommand{\@SixColLTRfootnotetext}[1]{%
13445   \bidi@step@absolute@footnote@count
13446   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13447   \global\setbox\footinsv@l\vbox{%
13448     \unvbox\footinsv@l
13449     \@RTLfalse
13450     \def\baselinestretch{\m@m@footnote@spacing}%
13451     \reset@font\LTRfoottextfont
13452     \@preamfntext
13453     \protected@edef\@currentlabel{%
13454       \csname p@footnote\endcsname\@thefnmark}%
13455     \color@begingroup
13456       \@sixcolLTRfootfmt{#1}%
13457     \color@endgroup}%
13458     \m@mmf@prepare
13459     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l

```



```

13460 }
13461 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13462 \def\baselinestretch{\m@m@footnote@spacing}%
13463 \reset@font\RTLfoottextfont
13464 \@preamfntext
13465 \protected@edef\@currentlabel{%
13466 \csname p@footnote\endcsname\@thefnmark}%
13467 \color@begingroup
13468 \@sixcolRTLfootfmt{#1}%
13469 \color@endgroup}%
13470 \m@mmf@prepare}
13471 \newcommand{\@SixColRTLfootnotetext}[1]{%
13472 \bidi@step@absolute@footnote@count
13473 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13474 \global\setbox\footinsv@r\vbox{%
13475 \unvbox\footinsv@r
13476 \@RTLtrue
13477 \def\baselinestretch{\m@m@footnote@spacing}%
13478 \reset@font\RTLfoottextfont
13479 \@preamfntext
13480 \protected@edef\@currentlabel{%
13481 \csname p@footnote\endcsname\@thefnmark}%
13482 \color@begingroup
13483 \@sixcolRTLfootfmt{#1}%
13484 \color@endgroup}%
13485 \m@mmf@prepare
13486 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13487 }
13488 \bidi@ensure@newcommand{\@preamsixfmt}{%
13489 \hspace .16\hspace
13490 \parindent=\z@
13491 \tolerance=5000\relax
13492 \leavevmode}
13493 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13494 \@preamsixfmt
13495 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13496 \bidi@ensure@newcommand{\@sixcollTRfootfmt}[1]{%
13497 \@preamsixfmt
13498 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13499 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13500 \@preamsixfmt
13501 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13502 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13503 \global\setbox
13504 \if@RTL@footnote
13505 \mpfootinsv@r
13506 \else
13507 \mpfootinsv@l
13508 \fi
13509 \vbox{%
13510 \unvbox
13511 \if@RTL@footnote
13512 \mpfootinsv@r
13513 \else

```



```

13514 \mpfootinsv@l
13515 \fi
13516 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13517 \def\baselinestretch{\m@m@footnote@spacing}%
13518 \reset@font\foottextfont
13519 \hsize\columnwidth \@parboxrestore
13520 \protected@edef\@currentlabel{%
13521 \csname p@mpfootnote\endcsname\@thefnmark}%
13522 \color@begingroup
13523 \@sixcolfootfmt{#1}%
13524 \color@endgroup}%
13525 \m@mmf@prepare}
13526 \newcommand{\@mpSixColfootnotetext}[1]{%
13527 \if@RTL@footnote
13528 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13529 \else
13530 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13531 \fi
13532 \global\setbox
13533 \if@RTL@footnote
13534 \@mpfootinsv@r
13535 \else
13536 \@mpfootinsv@l
13537 \fi
13538 \vbox{%
13539 \unvbox
13540 \if@RTL@footnote
13541 \@mpfootinsv@r
13542 \else
13543 \@mpfootinsv@l
13544 \fi
13545 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13546 \def\baselinestretch{\m@m@footnote@spacing}%
13547 \reset@font\foottextfont
13548 \hsize\columnwidth \@parboxrestore
13549 \protected@edef\@currentlabel{%
13550 \csname p@mpfootnote\endcsname\@thefnmark}%
13551 \color@begingroup
13552 \@sixcolfootfmt{#1}%
13553 \color@endgroup}%
13554 \m@mmf@prepare}
13555 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13556 \global\setbox\@mpfootinsv@l\vbox{%
13557 \unvbox\@mpfootinsv@l
13558 \@RTLfalse
13559 \def\baselinestretch{\m@m@footnote@spacing}%
13560 \reset@font\LTRfoottextfont
13561 \hsize\columnwidth \@parboxrestore
13562 \protected@edef\@currentlabel{%
13563 \csname p@mpfootnote\endcsname\@thefnmark}%
13564 \color@begingroup
13565 \@sixcolLTRfootfmt{#1}%
13566 \color@endgroup}%
13567 \m@mmf@prepare}

```



```

13568 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13569 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13570 \global\setbox\@mpfootinsv@l\vbox{%
13571 \unvbox\@mpfootinsv@l
13572 \RTLfalse
13573 \def\baselinestretch{\m@m@footnote@spacing}%
13574 \reset@font\LTRfoottextfont
13575 \hsize\columnwidth \@parboxrestore
13576 \protected@edef\@currentlabel{%
13577 \csname p@mpfootnote\endcsname\@thefnmark}%
13578 \color@begingroup
13579 \@sixcolLTRfootfmt{#1}%
13580 \color@endgroup}%
13581 \m@mmf@prepare}
13582 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13583 \global\setbox\@mpfootinsv@r\vbox{%
13584 \unvbox\@mpfootinsv@r
13585 \RTLtrue
13586 \def\baselinestretch{\m@m@footnote@spacing}%
13587 \reset@font\RTLfoottextfont
13588 \hsize\columnwidth \@parboxrestore
13589 \protected@edef\@currentlabel{%
13590 \csname p@mpfootnote\endcsname\@thefnmark}%
13591 \color@begingroup
13592 \@sixcolRTLfootfmt{#1}%
13593 \color@endgroup}%
13594 \m@mmf@prepare}
13595 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13596 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13597 \global\setbox\@mpfootinsv@r\vbox{%
13598 \unvbox\@mpfootinsv@r
13599 \RTLtrue
13600 \def\baselinestretch{\m@m@footnote@spacing}%
13601 \reset@font\RTLfoottextfont
13602 \hsize\columnwidth \@parboxrestore
13603 \protected@edef\@currentlabel{%
13604 \csname p@mpfootnote\endcsname\@thefnmark}%
13605 \color@begingroup
13606 \@sixcolRTLfootfmt{#1}%
13607 \color@endgroup}%
13608 \m@mmf@prepare}
13609 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13610 \@namedef{@sixcol@footgroup#1}{%
13611 \def\baselinestretch{\m@m@footnote@spacing}%
13612 \hsize\bidi@columnwidth
13613 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13614 \m@r rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13615 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13616 \@namedef{@sixcol@LTRfootgroup#1}{%
13617 \def\baselinestretch{\m@m@footnote@spacing}%
13618 \hsize\bidi@columnwidth
13619 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13620 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13621 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%

```



```

13622 \@namedef{@mpsixcol@footgroup#1}{%
13623 \def\baselinestretch{\m@footnote@spacing}%
13624 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13625 \m@r rigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}
13626 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13627 \@namedef{@mpsixcol@LTRfootgroup#1}{%
13628 \def\baselinestretch{\m@footnote@spacing}%
13629 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13630 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}
13631 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13632 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13633 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13634 \@bidi@before@Hy@hyperfootnotes
13635 \let@footnotetext@sevendcolfootnotetext
13636 \let@LTRfootnotetext@sevendcolLTRfootnotetext
13637 \let@RTLfootnotetext@sevendcolRTLfootnotetext
13638 \dimen\footinsv@r=7\footinsdim
13639 \count\footinsv@r=142\relax
13640 \m@make@sevendcol@footgroup{v@r}%
13641 \let@footgroupv@r@sevendcol@footgroupv@r
13642 \dimen\footinsv@l=7\footinsdim
13643 \count\footinsv@l=142\relax
13644 \bidi@make@sevendcol@LTRfootgroup{v@l}%
13645 \let@LTRfootgroupv@l@sevendcol@LTRfootgroupv@l
13646 \let@mpfootnotetext@mpsevendcolfootnotetext
13647 \let@mpLTRfootnotetext@mpsevendcolLTRfootnotetext
13648 \let@mpRTLfootnotetext@mpsevendcolRTLfootnotetext
13649 \@bidi@after@Hy@hyperfootnotes
13650 \m@make@mpsevendcol@footgroup{v@r}%
13651 \let@mp@footgroupv@r@mpsevendcol@footgroupv@r
13652 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13653 \let@mp@LTRfootgroupv@l@mpsevendcol@LTRfootgroupv@l
13654 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13655 }
13656 \newcommand{\SevenColumnFootnotes}{%
13657 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13658 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13659 \@bidi@before@Hy@hyperfootnotes
13660 \let@footnotetext@SevenColfootnotetext
13661 \let@LTRfootnotetext@SevenColLTRfootnotetext
13662 \let@RTLfootnotetext@SevenColRTLfootnotetext
13663 \dimen\footinsv@r=7\footinsdim
13664 \count\footinsv@r=142\relax
13665 \m@make@sevendcol@footgroup{v@r}%
13666 \let@footgroupv@r@sevendcol@footgroupv@r
13667 \dimen\footinsv@l=7\footinsdim
13668 \count\footinsv@l=142\relax
13669 \bidi@make@sevendcol@LTRfootgroup{v@l}%
13670 \let@LTRfootgroupv@l@sevendcol@LTRfootgroupv@l
13671 \let@mpfootnotetext@mpSevenColfootnotetext
13672 \let@mpLTRfootnotetext@mpSevenColLTRfootnotetext
13673 \let@mpRTLfootnotetext@mpSevenColRTLfootnotetext
13674 \@bidi@after@Hy@hyperfootnotes
13675 \m@make@mpsevendcol@footgroup{v@r}%

```



```

13676 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
13677 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
13678 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
13679 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13680 }
13681 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
13682 \if@RTL@footnote
13683 \footinsv@r
13684 \else
13685 \footinsv@l
13686 \fi
13687 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13688 \def\baselinestretch{\m@m@footnote@spacing}%
13689 \reset@font\foottextfont
13690 \@preamfntext
13691 \protected@edef\@currentlabel{%
13692 \csname p@footnote\endcsname\@thefnmark}%
13693 \color@begingroup
13694 \@sevenscolfootfmt{#1}%
13695 \color@endgroup}%
13696 \m@mmf@prepare}
13697 \newcommand{\@SevenColfootnotetext}[1]{%
13698 \bidi@step@absolute@footnote@count
13699 \if@RTL@footnote
13700 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13701 \else
13702 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13703 \fi
13704 \global\setbox
13705 \if@RTL@footnote
13706 \footinsv@r
13707 \else
13708 \footinsv@l
13709 \fi
13710 \vbox{%
13711 \unvbox
13712 \if@RTL@footnote
13713 \footinsv@r
13714 \else
13715 \footinsv@l
13716 \fi
13717 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13718 \def\baselinestretch{\m@m@footnote@spacing}%
13719 \reset@font\foottextfont
13720 \@preamfntext
13721 \protected@edef\@currentlabel{%
13722 \csname p@footnote\endcsname\@thefnmark}%
13723 \color@begingroup
13724 \@sevenscolfootfmt{#1}%
13725 \color@endgroup}%
13726 \m@mmf@prepare
13727 \if@RTL@footnote
13728 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13729 \else

```





```

13730     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13731     \fi
13732 }
13733 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13734     \def\baselinestretch{\m@m@footnote@spacing}%
13735     \reset@font\LTRfoottextfont
13736     \@preamfntext
13737     \protected@edef\@currentlabel{%
13738         \csname p@footnote\endcsname\@thefnmark}%
13739     \color@begingroup
13740         \@sevenscolLTRfootfmt{#1}%
13741     \color@endgroup}%
13742     \m@mmf@prepare}
13743 \newcommand{\@SevenCollTRfootnotetext}[1]{%
13744     \bidi@step@absolute@footnote@count
13745     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13746     \global\setbox\footinsv@l\vbox{%
13747         \unvbox\footinsv@l
13748         \@RTLfalse
13749         \def\baselinestretch{\m@m@footnote@spacing}%
13750         \reset@font\LTRfoottextfont
13751         \@preamfntext
13752         \protected@edef\@currentlabel{%
13753             \csname p@footnote\endcsname\@thefnmark}%
13754         \color@begingroup
13755             \@sevenscolLTRfootfmt{#1}%
13756         \color@endgroup}%
13757         \m@mmf@prepare
13758     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13759 }
13760 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13761     \def\baselinestretch{\m@m@footnote@spacing}%
13762     \reset@font\RTLfoottextfont
13763     \@preamfntext
13764     \protected@edef\@currentlabel{%
13765         \csname p@footnote\endcsname\@thefnmark}%
13766     \color@begingroup
13767         \@sevenscolRTLfootfmt{#1}%
13768     \color@endgroup}%
13769     \m@mmf@prepare}
13770 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13771     \bidi@step@absolute@footnote@count
13772     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13773     \global\setbox\footinsv@r\vbox{%
13774         \unvbox\footinsv@r
13775         \@RTLtrue
13776         \def\baselinestretch{\m@m@footnote@spacing}%
13777         \reset@font\RTLfoottextfont
13778         \@preamfntext
13779         \protected@edef\@currentlabel{%
13780             \csname p@footnote\endcsname\@thefnmark}%
13781         \color@begingroup
13782             \@sevenscolRTLfootfmt{#1}%
13783         \color@endgroup}%

```



```

13784 \m@mmf@prepare
13785 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13786 }
13787 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13788   \hspace .142\hspace
13789   \parindent=\z@
13790   \tolerance=5000\relax
13791   \leavevmode}
13792 \bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
13793   \@preamsevenfmt
13794   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13795 \bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
13796   \@preamsevenfmt
13797   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13798 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
13799   \@preamsevenfmt
13800   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13801 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13802   \global\setbox
13803     \if@RTL@footnote
13804     \@mpfootinsv@r
13805   \else
13806     \@mpfootinsv@l
13807   \fi
13808   \vbox{%
13809     \unvbox
13810     \if@RTL@footnote
13811     \@mpfootinsv@r
13812   \else
13813     \@mpfootinsv@l
13814   \fi
13815   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13816   \def\baselinestretch{\m@m@footnote@spacing}%
13817   \reset@font\foottextfont
13818   \hspace\columnwidth \@parboxrestore
13819   \protected@edef\@currentlabel{%
13820     \csname p@mpfootnote\endcsname\@thefnmark}%
13821   \color@begingroup
13822     \@sevencolfootfmt{#1}%
13823   \color@endgroup}%
13824 \m@mmf@prepare}
13825 \newcommand{\@mpSevenColfootnotetext}[1]{%
13826   \if@RTL@footnote
13827     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13828   \else
13829     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13830   \fi
13831   \global\setbox
13832     \if@RTL@footnote
13833     \@mpfootinsv@r
13834   \else
13835     \@mpfootinsv@l
13836   \fi
13837   \vbox{%

```



```

13838 \unvbox
13839 \if@RTL@footnote
13840 \@mpfootinsv@r
13841 \else
13842 \@mpfootinsv@l
13843 \fi
13844 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13845 \def\baselinestretch{\m@m@footnote@spacing}%
13846 \reset@font\foottextfont
13847 \hsize\columnwidth \@parboxrestore
13848 \protected@edef\@currentlabel{%
13849 \csname p@mpfootnote\endcsname\@thefnmark}%
13850 \color@begingroup
13851 \@sevenscolfootfmt{#1}%
13852 \color@endgroup}%
13853 \m@mmf@prepare}
13854 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13855 \global\setbox\@mpfootinsv@l\vbox{%
13856 \unvbox\@mpfootinsv@l
13857 \@RTLfalse
13858 \def\baselinestretch{\m@m@footnote@spacing}%
13859 \reset@font\LTRfoottextfont
13860 \hsize\columnwidth \@parboxrestore
13861 \protected@edef\@currentlabel{%
13862 \csname p@mpfootnote\endcsname\@thefnmark}%
13863 \color@begingroup
13864 \@sevenscolLTRfootfmt{#1}%
13865 \color@endgroup}%
13866 \m@mmf@prepare}
13867 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13868 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\@mp@footgroupv@r
13869 \global\setbox\@mpfootinsv@l\vbox{%
13870 \unvbox\@mpfootinsv@l
13871 \@RTLfalse
13872 \def\baselinestretch{\m@m@footnote@spacing}%
13873 \reset@font\LTRfoottextfont
13874 \hsize\columnwidth \@parboxrestore
13875 \protected@edef\@currentlabel{%
13876 \csname p@mpfootnote\endcsname\@thefnmark}%
13877 \color@begingroup
13878 \@sevenscolLTRfootfmt{#1}%
13879 \color@endgroup}%
13880 \m@mmf@prepare}
13881 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13882 \global\setbox\@mpfootinsv@r\vbox{%
13883 \unvbox\@mpfootinsv@r
13884 \@RTLtrue
13885 \def\baselinestretch{\m@m@footnote@spacing}%
13886 \reset@font\RTLfoottextfont
13887 \hsize\columnwidth \@parboxrestore
13888 \protected@edef\@currentlabel{%
13889 \csname p@mpfootnote\endcsname\@thefnmark}%
13890 \color@begingroup
13891 \@sevenscolRTLfootfmt{#1}%

```



```

13892 \color@endgroup}%
13893 \m@mmf@prepare}
13894 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13895 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13896 \global\setbox\@mpfootinsv@r\vbox{%
13897 \unvbox\@mpfootinsv@r
13898 \@RTLtrue
13899 \def\baselinestretch{\m@m@footnote@spacing}%
13900 \reset@font\RTLfoottextfont
13901 \hsize\columnwidth \@parboxrestore
13902 \protected@edef\@currentlabel{%
13903 \csname p@mpfootnote\endcsname\@thefnmark}%
13904 \color@bebingroup
13905 \@sevendcolRTLfootfmt{#1}%
13906 \color@endgroup}%
13907 \m@mmf@prepare}
13908 \bidi@ensure@newcommand{\m@make@sevendcol@footgroup}[1]{%
13909 \@namedef{@sevendcol@footgroup#1}{%
13910 \def\baselinestretch{\m@m@footnote@spacing}%
13911 \hsize\bidi@columnwidth
13912 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13913 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13914 \newcommand{\bidi@make@sevendcol@LTRfootgroup}[1]{%
13915 \@namedef{@sevendcol@LTRfootgroup#1}{%
13916 \def\baselinestretch{\m@m@footnote@spacing}%
13917 \hsize\bidi@columnwidth
13918 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13919 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13920 \bidi@ensure@newcommand{\m@make@mpsevendcol@footgroup}[1]{%
13921 \@namedef{@mpsevendcol@footgroup#1}{%
13922 \def\baselinestretch{\m@m@footnote@spacing}%
13923 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13924 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
13925 \newcommand{\bidi@make@mpsevendcol@LTRfootgroup}[1]{%
13926 \@namedef{@mpsevendcol@LTRfootgroup#1}{%
13927 \def\baselinestretch{\m@m@footnote@spacing}%
13928 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13929 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
13930 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13931 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13932 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13933 \@bidi@before@Hy@hyperfootnotes
13934 \let\@footnotetext\@eightcolfootnotetext
13935 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13936 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13937 \dimen\footinsv@r=8\footinsdim
13938 \count\footinsv@r=125\relax
13939 \m@make@eightcol@footgroup{v@r}%
13940 \let\@footgroupv@r\@eightcol@footgroupv@r
13941 \dimen\footinsv@l=8\footinsdim
13942 \count\footinsv@l=125\relax
13943 \bidi@make@eightcol@LTRfootgroup{v@l}%
13944 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13945 \let\@mpfootnotetext\@mpeightcolfootnotetext

```



```

13946 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13947 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13948 \@bidi@after@Hy@hyperfootnotes
13949 \m@make@mpeightcol@footgroup{v@r}%
13950 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13951 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13952 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13953 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13954 }
13955 \newcommand{\EightColumnFootnotes}{%
13956 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13957 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13958 \@bidi@before@Hy@hyperfootnotes
13959 \let\@footnotetext\@EightColfootnotetext
13960 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13961 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13962 \dimen\footinsv@r=8\footinsdim
13963 \count\footinsv@r=125\relax
13964 \m@make@eightcol@footgroup{v@r}%
13965 \let\@footgroupv@r\@eightcol@footgroupv@r
13966 \dimen\footinsv@l=8\footinsdim
13967 \count\footinsv@l=125\relax
13968 \bidi@make@eightcol@LTRfootgroup{v@l}%
13969 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13970 \let\@mpfootnotetext\@mpEightColfootnotetext
13971 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13972 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13973 \@bidi@after@Hy@hyperfootnotes
13974 \m@make@mpeightcol@footgroup{v@r}%
13975 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13976 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13977 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13978 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13979 }
13980 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13981 \if@RTL@footnote
13982 \footinsv@r
13983 \else
13984 \footinsv@l
13985 \fi
13986 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13987 \def\baselinestretch{\m@mm@footnote@spacing}%
13988 \reset@font\foottextfont
13989 \@preamfntext
13990 \protected@edef\@currentlabel{%
13991 \csname p@footnote\endcsname\@thefnmark}%
13992 \color@begingroup
13993 \@eightcolfootfmt{#1}%
13994 \color@endgroup}%
13995 \m@mmf@prepare}
13996 \newcommand{\@EightColfootnotetext}[1]{%
13997 \bidi@step@absolute@footnote@count
13998 \if@RTL@footnote
13999 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l

```



```

14000 \else
14001   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14002 \fi
14003 \global\setbox
14004 \if@RTL@footnote
14005   \footinsv@r
14006 \else
14007   \footinsv@l
14008 \fi
14009 \vbox{%
14010   \unvbox
14011   \if@RTL@footnote
14012     \footinsv@r
14013   \else
14014     \footinsv@l
14015   \fi
14016   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14017   \def\baselinestretch{\m@m@footnote@spacing}%
14018   \reset@font\foottextfont
14019   \@preamfntext
14020   \protected@edef\@currentlabel{%
14021     \csname p@footnote\endcsname\@thefnmark}%
14022   \color@begingroup
14023     \@eightcolfootfmt{#1}%
14024   \color@endgroup}%
14025   \m@m@mmf@prepare
14026 \if@RTL@footnote
14027   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14028 \else
14029   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14030 \fi
14031 }
14032 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14033   \def\baselinestretch{\m@m@footnote@spacing}%
14034   \reset@font\LTRfoottextfont
14035   \@preamfntext
14036   \protected@edef\@currentlabel{%
14037     \csname p@footnote\endcsname\@thefnmark}%
14038   \color@begingroup
14039     \@eightcolLTRfootfmt{#1}%
14040   \color@endgroup}%
14041   \m@m@mmf@prepare}
14042 \newcommand{\@EightCollTRfootnotetext}[1]{%
14043   \bidi@step@absolute@footnote@count
14044   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14045   \global\setbox\footinsv@l\vbox{%
14046     \unvbox\footinsv@l
14047     \@RTLfalse
14048     \def\baselinestretch{\m@m@footnote@spacing}%
14049     \reset@font\LTRfoottextfont
14050     \@preamfntext
14051     \protected@edef\@currentlabel{%
14052       \csname p@footnote\endcsname\@thefnmark}%
14053     \color@begingroup

```



```

14054 \eightcolLTRfootfmt{#1}%
14055 \color@endgroup}%
14056 \m@mmf@prepare
14057 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14058 }
14059 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14060 \def\baselinestretch{\m@m@footnote@spacing}%
14061 \reset@font\RTLfoottextfont
14062 \@preamfntext
14063 \protected@edef\@currentlabel{%
14064 \csname p@footnote\endcsname\@thefnmark}%
14065 \color@begingroup
14066 \eightcolRTLfootfmt{#1}%
14067 \color@endgroup}%
14068 \m@mmf@prepare}
14069 \newcommand{\@EightColRTLfootnotetext}[1]{%
14070 \bidi@step@absolute@footnote@count
14071 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14072 \global\setbox\footinsv@r\vbox{%
14073 \unvbox\footinsv@r
14074 \@RTLtrue%
14075 \def\baselinestretch{\m@m@footnote@spacing}%
14076 \reset@font\RTLfoottextfont
14077 \@preamfntext
14078 \protected@edef\@currentlabel{%
14079 \csname p@footnote\endcsname\@thefnmark}%
14080 \color@begingroup
14081 \eightcolRTLfootfmt{#1}%
14082 \color@endgroup}%
14083 \m@mmf@prepare
14084 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14085 }
14086 \bidi@ensure@newcommand{\@preameightfmt}{%
14087 \hspace .125\hspace
14088 \parindent=\z@
14089 \tolerance=5000\relax
14090 \leavevmode}
14091 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14092 \@preameightfmt
14093 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14094 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14095 \@preameightfmt
14096 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14097 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14098 \@preameightfmt
14099 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14100 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14101 \global\setbox
14102 \if@RTL@footnote
14103 \mpfootinsv@r
14104 \else
14105 \mpfootinsv@l
14106 \fi
14107 \vbox{%

```



```

14108 \unvbox
14109 \if@RTL@footnote
14110 \@mpfootinsv@r
14111 \else
14112 \@mpfootinsv@l
14113 \fi
14114 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14115 \def\baselinestretch{\m@m@footnote@spacing}%
14116 \reset@font\foottextfont
14117 \hsize\columnwidth \@parboxrestore
14118 \protected@edef\@currentlabel{%
14119 \csname p@mpfootnote\endcsname\@thefnmark}%
14120 \color@begingroup
14121 \@eightcolfootfmt{#1}%
14122 \color@endgroup}%
14123 \m@mmf@prepare}
14124 \newcommand{\@mpEightColfootnotetext}[1]{%
14125 \if@RTL@footnote
14126 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14127 \else
14128 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14129 \fi
14130 \global\setbox
14131 \if@RTL@footnote
14132 \@mpfootinsv@r
14133 \else
14134 \@mpfootinsv@l
14135 \fi
14136 \vbox{%
14137 \unvbox
14138 \if@RTL@footnote
14139 \@mpfootinsv@r
14140 \else
14141 \@mpfootinsv@l
14142 \fi
14143 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14144 \def\baselinestretch{\m@m@footnote@spacing}%
14145 \reset@font\foottextfont
14146 \hsize\columnwidth \@parboxrestore
14147 \protected@edef\@currentlabel{%
14148 \csname p@mpfootnote\endcsname\@thefnmark}%
14149 \color@begingroup
14150 \@eightcolfootfmt{#1}%
14151 \color@endgroup}%
14152 \m@mmf@prepare}
14153 \bidi@ensure@newcommand{\@mpeightcollTRfootnotetext}[1]{%
14154 \global\setbox\@mpfootinsv@l\vbox{%
14155 \unvbox\@mpfootinsv@l
14156 \@RTLfalse
14157 \def\baselinestretch{\m@m@footnote@spacing}%
14158 \reset@font\LTRfoottextfont
14159 \hsize\columnwidth \@parboxrestore
14160 \protected@edef\@currentlabel{%
14161 \csname p@mpfootnote\endcsname\@thefnmark}%

```





```

14162 \color@begingroup
14163   \@eightcolLTRfootfmt{#1}%
14164 \color@endgroup}%
14165 \m@mmf@prepare}
14166 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14167   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14168   \global\setbox\@mpfootinsv@l\vbox{%
14169     \unvbox\@mpfootinsv@l
14170     \RTLfalse
14171     \def\baselinestretch{\m@m@footnote@spacing}%
14172     \reset@font\LTRfoottextfont
14173     \hsize\columnwidth \@parboxrestore
14174     \protected@edef\@currentlabel{%
14175       \csname p@mpfootnote\endcsname\@thefnmark}%
14176   \color@begingroup
14177     \@eightcolLTRfootfmt{#1}%
14178   \color@endgroup}%
14179   \m@mmf@prepare}
14180 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
14181   \global\setbox\@mpfootinsv@r\vbox{%
14182     \unvbox\@mpfootinsv@r
14183     \RTLtrue
14184     \def\baselinestretch{\m@m@footnote@spacing}%
14185     \reset@font\RTLfoottextfont
14186     \hsize\columnwidth \@parboxrestore
14187     \protected@edef\@currentlabel{%
14188       \csname p@mpfootnote\endcsname\@thefnmark}%
14189   \color@begingroup
14190     \@eightcolRTLfootfmt{#1}%
14191   \color@endgroup}%
14192   \m@mmf@prepare}
14193 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14194   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14195   \global\setbox\@mpfootinsv@r\vbox{%
14196     \unvbox\@mpfootinsv@r
14197     \RTLtrue
14198     \def\baselinestretch{\m@m@footnote@spacing}%
14199     \reset@font\RTLfoottextfont
14200     \hsize\columnwidth \@parboxrestore
14201     \protected@edef\@currentlabel{%
14202       \csname p@mpfootnote\endcsname\@thefnmark}%
14203   \color@begingroup
14204     \@eightcolRTLfootfmt{#1}%
14205   \color@endgroup}%
14206   \m@mmf@prepare}
14207 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14208   \@namedef{@eightcol@footgroup#1}{%
14209     \def\baselinestretch{\m@m@footnote@spacing}%
14210     \hsize\bidi@columnwidth
14211     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14212     \m@r@rigidbalance{\nameuse{footins#1}}{8}{\splittopskip}}
14213 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14214   \@namedef{@eightcol@LTRfootgroup#1}{%
14215     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14216 \hsize\ bidi@columnwidth
14217 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14218 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
14219 \bidi@ensure@newcommand{\m@make@mpheightcol@footgroup}[1]{%
14220 \@namedef{mpheightcol@footgroup#1}{%
14221 \def\baselinestretch{\m@f@footnote@spacing}%
14222 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14223 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}
14224 \newcommand{\bidi@make@mpheightcol@LTRfootgroup}[1]{%
14225 \@namedef{mpheightcol@LTRfootgroup#1}{%
14226 \def\baselinestretch{\m@f@footnote@spacing}%
14227 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14228 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}
14229 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
14230 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14231 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14232 \@bidi@before@Hy@hyperfootnotes
14233 \let\@footnotetext\@ninecolfootnotetext
14234 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
14235 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
14236 \dimen\footinsv@r=9\footinsdim
14237 \count\footinsv@r=111\relax
14238 \m@make@ninecol@footgroup{v@r}%
14239 \let\@footgroupv@r\@ninecol@footgroupv@r
14240 \dimen\footinsv@l=9\footinsdim
14241 \count\footinsv@l=111\relax
14242 \bidi@make@ninecol@LTRfootgroup{v@l}%
14243 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14244 \let\@mpfootnotetext\@mpninecolfootnotetext
14245 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
14246 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
14247 \@bidi@after@Hy@hyperfootnotes
14248 \m@make@mpninecol@footgroup{v@r}%
14249 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14250 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14251 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14252 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14253 }
14254 \newcommand{\NineColumnFootnotes}{%
14255 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14256 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14257 \@bidi@before@Hy@hyperfootnotes
14258 \let\@footnotetext\@NineColfootnotetext
14259 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14260 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14261 \dimen\footinsv@r=9\footinsdim
14262 \count\footinsv@r=111\relax
14263 \m@make@ninecol@footgroup{v@r}%
14264 \let\@footgroupv@r\@ninecol@footgroupv@r
14265 \dimen\footinsv@l=9\footinsdim
14266 \count\footinsv@l=111\relax
14267 \bidi@make@ninecol@LTRfootgroup{v@l}%
14268 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14269 \let\@mpfootnotetext\@mpNineColfootnotetext

```



```

14270 \let\@mpLTRfootnotetext\@mpNineCollTRfootnotetext
14271 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14272 \@bidi@after@Hy@hyperfootnotes
14273 \m@make@mpninecol@footgroup{v@r}%
14274 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14275 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14276 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14277 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14278 }
14279 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
14280 \if@RTL@footnote
14281 \footinsv@r
14282 \else
14283 \footinsv@l
14284 \fi
14285 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14286 \def\baselinestretch{\m@footnote@spacing}%
14287 \reset@font\foottextfont
14288 \@preamfntext
14289 \protected@edef\@currentlabel{%
14290 \csname p@footnote\endcsname\@thefnmark}%
14291 \color@begingroup
14292 \@ninecolfootfmt{#1}%
14293 \color@endgroup}%
14294 \m@mmf@prepare}
14295 \newcommand{\@NineColfootnotetext}[1]{%
14296 \bidi@step@absolute@footnote@count
14297 \if@RTL@footnote
14298 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14299 \else
14300 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14301 \fi
14302 \global\setbox
14303 \if@RTL@footnote
14304 \footinsv@r
14305 \else
14306 \footinsv@l
14307 \fi
14308 \vbox{%
14309 \unvbox
14310 \if@RTL@footnote
14311 \footinsv@r
14312 \else
14313 \footinsv@l
14314 \fi
14315 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14316 \def\baselinestretch{\m@footnote@spacing}%
14317 \reset@font\foottextfont
14318 \@preamfntext
14319 \protected@edef\@currentlabel{%
14320 \csname p@footnote\endcsname\@thefnmark}%
14321 \color@begingroup
14322 \@ninecolfootfmt{#1}%
14323 \color@endgroup}%

```



```

14324 \m@mmf@prepare
14325 \if@RTL@footnote
14326   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14327 \else
14328   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14329 \fi
14330 }
14331 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14332 \def\baselinestretch{\m@m@footnote@spacing}%
14333 \reset@font\LTRfoottextfont
14334 \@preamfntext
14335 \protected@edef\@currentlabel{%
14336   \csname p@footnote\endcsname\@thefnmark}%
14337 \color@begingroup
14338   \@ninecolLTRfootfmt{#1}%
14339 \color@endgroup}%
14340 \m@mmf@prepare}
14341 \newcommand{\@NineColLTRfootnotetext}[1]{%
14342 \bidi@step@absolute@footnote@count
14343 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14344 \global\setbox\footinsv@l\vbox{%
14345 \unvbox\footinsv@l
14346 \@RTLfalse
14347 \def\baselinestretch{\m@m@footnote@spacing}%
14348 \reset@font\LTRfoottextfont
14349 \@preamfntext
14350 \protected@edef\@currentlabel{%
14351   \csname p@footnote\endcsname\@thefnmark}%
14352 \color@begingroup
14353   \@ninecolLTRfootfmt{#1}%
14354 \color@endgroup}%
14355 \m@mmf@prepare
14356 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14357 }
14358 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14359 \def\baselinestretch{\m@m@footnote@spacing}%
14360 \reset@font\RTLfoottextfont
14361 \@preamfntext
14362 \protected@edef\@currentlabel{%
14363   \csname p@footnote\endcsname\@thefnmark}%
14364 \color@begingroup
14365   \@ninecolRTLfootfmt{#1}%
14366 \color@endgroup}%
14367 \m@mmf@prepare}
14368 \newcommand{\@NineColRTLfootnotetext}[1]{%
14369 \bidi@step@absolute@footnote@count
14370 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14371 \global\setbox\footinsv@r\vbox{%
14372 \unvbox\footinsv@r
14373 \@RTLtrue
14374 \def\baselinestretch{\m@m@footnote@spacing}%
14375 \reset@font\RTLfoottextfont
14376 \@preamfntext
14377 \protected@edef\@currentlabel{%

```



```

14378 \csname p@footnote\endcsname\@thefnmark}%
14379 \color@begingroup
14380 \@ninecolRTLfootfmt{#1}%
14381 \color@endgroup}%
14382 \m@mmf@prepare
14383 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14384 }
14385 \bidi@ensure@newcommand{\@preamninefmt}{%
14386 \hspace .1\hspace
14387 \parindent=\z@
14388 \tolerance=5000\relax
14389 \leavevmode}
14390 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14391 \@preamninefmt
14392 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14393 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14394 \@preamninefmt
14395 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14396 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14397 \@preamninefmt
14398 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14399 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14400 \global\setbox
14401 \if@RTL@footnote
14402 \@mpfootinsv@r
14403 \else
14404 \@mpfootinsv@l
14405 \fi
14406 \vbox{%
14407 \unvbox
14408 \if@RTL@footnote
14409 \@mpfootinsv@r
14410 \else
14411 \@mpfootinsv@l
14412 \fi
14413 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14414 \def\baselinestretch{\m@m@footnote@spacing}%
14415 \reset@font\foottextfont
14416 \hspace\columnwidth \@parboxrestore
14417 \protected@edef\@currentlabel{%
14418 \csname p@mpfootnote\endcsname\@thefnmark}%
14419 \color@begingroup
14420 \@ninecolfootfmt{#1}%
14421 \color@endgroup}%
14422 \m@mmf@prepare}
14423 \newcommand{\@mpNineColfootnotetext}[1]{%
14424 \if@RTL@footnote
14425 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14426 \else
14427 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14428 \fi
14429 \global\setbox
14430 \if@RTL@footnote
14431 \@mpfootinsv@r

```



```

14432 \else
14433   \@mpfootinsv@l
14434 \fi
14435 \vbox{%
14436   \unvbox
14437   \if@RTL@footnote
14438   \@mpfootinsv@r
14439 \else
14440   \@mpfootinsv@l
14441 \fi
14442   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14443   \def\baselinestretch{\m@m@footnote@spacing}%
14444   \reset@font\foottextfont
14445   \hsize\columnwidth \@parboxrestore
14446   \protected@edef\@currentlabel{%
14447     \csname p@mpfootnote\endcsname\@thefnmark}%
14448   \color@begingroup
14449     \@ninecolfootfmt{#1}%
14450   \color@endgroup}%
14451   \m@mmf@prepare}
14452 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14453   \global\setbox\@mpfootinsv@l\vbox{%
14454     \unvbox\@mpfootinsv@l
14455     \@RTLfalse
14456     \def\baselinestretch{\m@m@footnote@spacing}%
14457     \reset@font\LTRfoottextfont
14458     \hsize\columnwidth \@parboxrestore
14459     \protected@edef\@currentlabel{%
14460       \csname p@mpfootnote\endcsname\@thefnmark}%
14461     \color@begingroup
14462       \@ninecolLTRfootfmt{#1}%
14463     \color@endgroup}%
14464     \m@mmf@prepare}
14465 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14466   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14467   \global\setbox\@mpfootinsv@l\vbox{%
14468     \unvbox\@mpfootinsv@l
14469     \@RTLfalse
14470     \def\baselinestretch{\m@m@footnote@spacing}%
14471     \reset@font\LTRfoottextfont
14472     \hsize\columnwidth \@parboxrestore
14473     \protected@edef\@currentlabel{%
14474       \csname p@mpfootnote\endcsname\@thefnmark}%
14475     \color@begingroup
14476       \@ninecolLTRfootfmt{#1}%
14477     \color@endgroup}%
14478     \m@mmf@prepare}
14479 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14480   \global\setbox\@mpfootinsv@r\vbox{%
14481     \unvbox\@mpfootinsv@r
14482     \@RTLtrue
14483     \def\baselinestretch{\m@m@footnote@spacing}%
14484     \reset@font\RTLfoottextfont
14485     \hsize\columnwidth \@parboxrestore

```



```

14486 \protected@edef\@currentlabel{%
14487 \csname p@mpfootnote\endcsname\@thefnmark}%
14488 \color@begingroup
14489 \@ninecolRTLfootfmt{#1}%
14490 \color@endgroup}%
14491 \m@mmf@prepare}
14492 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14493 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14494 \global\setbox\@mpfootinsv@r\vbox{%
14495 \unvbox\@mpfootinsv@r
14496 \@RTLtrue
14497 \def\baselinestretch{\m@m@footnote@spacing}%
14498 \reset@font\RTLfoottextfont
14499 \hsize\columnwidth \@parboxrestore
14500 \protected@edef\@currentlabel{%
14501 \csname p@mpfootnote\endcsname\@thefnmark}%
14502 \color@begingroup
14503 \@ninecolRTLfootfmt{#1}%
14504 \color@endgroup}%
14505 \m@mmf@prepare}
14506 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14507 \@namedef{@ninecol@footgroup#1}{%
14508 \def\baselinestretch{\m@m@footnote@spacing}%
14509 \hsize\bidi@columnwidth
14510 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14511 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14512 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14513 \@namedef{@ninecol@LTRfootgroup#1}{%
14514 \def\baselinestretch{\m@m@footnote@spacing}%
14515 \hsize\bidi@columnwidth
14516 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14517 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14518 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14519 \@namedef{@mpninecol@footgroup#1}{%
14520 \def\baselinestretch{\m@m@footnote@spacing}%
14521 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14522 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14523 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14524 \@namedef{@mpninecol@LTRfootgroup#1}{%
14525 \def\baselinestretch{\m@m@footnote@spacing}%
14526 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14527 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14528 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14529 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14530 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14531 \@bidi@before@Hy@hyperfootnotes
14532 \let\@footnotetext\@tencolfootnotetext
14533 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14534 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14535 \dimen\footinsv@r=10\footinsdim
14536 \count\footinsv@r=100\relax
14537 \m@make@tencol@footgroup{v@r}%
14538 \let\@footgroupv@r\@tencol@footgroupv@r
14539 \dimen\footinsv@l=10\footinsdim

```



```

14540 \count\footinsv@l=100\relax
14541 \bidi@make@tencol@LTRfootgroup{v@l}%
14542 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14543 \let\@mpfootnotetext\@mptencolfootnotetext
14544 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14545 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14546 \@bidi@after@Hy@hyperfootnotes
14547 \m@make@mptencol@footgroup{v@r}%
14548 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14549 \bidi@make@mptencol@LTRfootgroup{v@l}%
14550 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14551 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14552 }
14553 \newcommand{\TenColumnFootnotes}{%
14554   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14555   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14556   \@bidi@before@Hy@hyperfootnotes
14557   \let\@footnotetext\@TenColfootnotetext
14558   \let\@LTRfootnotetext\@TenColLTRfootnotetext
14559   \let\@RTLfootnotetext\@TenColRTLfootnotetext
14560   \dimen\footinsv@r=10\footinsdim
14561   \count\footinsv@r=100\relax
14562   \m@make@tencol@footgroup{v@r}%
14563   \let\@footgroupv@r\@tencol@footgroupv@r
14564   \dimen\footinsv@l=10\footinsdim
14565   \count\footinsv@l=100\relax
14566   \bidi@make@tencol@LTRfootgroup{v@l}%
14567   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14568   \let\@mpfootnotetext\@mpTenColfootnotetext
14569   \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14570   \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14571   \@bidi@after@Hy@hyperfootnotes
14572   \m@make@mptencol@footgroup{v@r}%
14573   \let\mp@footgroupv@r\@mptencol@footgroupv@r
14574   \bidi@make@mptencol@LTRfootgroup{v@l}%
14575   \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14576   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14577 }
14578 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14579   \if@RTL@footnote
14580     \footinsv@r
14581   \else
14582     \footinsv@l
14583   \fi
14584 }{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14585 \def\baselinestretch{\m@footnote@spacing}%
14586 \reset@font\foottextfont
14587 \@preamfntext
14588 \protected@edef\@currentlabel{%
14589   \csname p@footnote\endcsname\@thefnmark}%
14590 \color@begingroup
14591   \@tencolfootfmt{#1}%
14592 \color@endgroup}%
14593 \m@mmf@prepare}

```





```

14594 \newcommand{\@TenColfootnotetext}[1]{%
14595   \bidi@step@absolutefootnote@count
14596   \if@RTL@footnote
14597     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14598   \else
14599     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14600   \fi
14601   \global\setbox
14602   \if@RTL@footnote
14603     \footinsv@r
14604   \else
14605     \footinsv@l
14606   \fi
14607   \vbox{%
14608     \unvbox
14609     \if@RTL@footnote
14610       \footinsv@r
14611     \else
14612       \footinsv@l
14613     \fi
14614     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14615     \def\baselinestretch{\m@m@footnote@spacing}%
14616     \reset@font\foottextfont
14617     \@preamfntext
14618     \protected@edef\@currentlabel{%
14619       \csname p@footnote\endcsname\@thefnmark}%
14620     \color@begingroup
14621       \@tencolfootfmt{#1}%
14622     \color@endgroup}%
14623     \m@mmf@prepare
14624     \if@RTL@footnote
14625       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14626     \else
14627       \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14628     \fi
14629 }
14630 \bidi@ensure@newcommand{\@tencollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14631   \def\baselinestretch{\m@m@footnote@spacing}%
14632   \reset@font\LTRfoottextfont
14633   \@preamfntext
14634   \protected@edef\@currentlabel{%
14635     \csname p@footnote\endcsname\@thefnmark}%
14636   \color@begingroup
14637     \@tencollTRfootfmt{#1}%
14638   \color@endgroup}%
14639   \m@mmf@prepare}
14640 \newcommand{\@TenCollTRfootnotetext}[1]{%
14641   \bidi@step@absolutefootnote@count
14642   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14643   \global\setbox\footinsv@l\vbox{%
14644     \unvbox\footinsv@l
14645     \@RTLfalse%
14646     \def\baselinestretch{\m@m@footnote@spacing}%
14647     \reset@font\LTRfoottextfont

```



```

14648 \@preamfntext
14649 \protected@edef\@currentlabel{%
14650   \csname p@footnote\endcsname\@thefnmark}%
14651 \color@begingroup
14652   \@tencolLTRfootfmt{#1}%
14653 \color@endgroup}%
14654 \m@mmf@prepare
14655 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14656 }
14657 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14658   \def\baselinestretch{\m@mmf@footnote@spacing}%
14659   \reset@font\RTLfoottextfont
14660   \@preamfntext
14661   \protected@edef\@currentlabel{%
14662     \csname p@footnote\endcsname\@thefnmark}%
14663   \color@begingroup
14664     \@tencolRTLfootfmt{#1}%
14665   \color@endgroup}%
14666   \m@mmf@prepare}
14667 \newcommand{\@TenColRTLfootnotetext}[1]{%
14668   \bidi@step@absolute@footnote@count
14669   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14670   \global\setbox\footinsv@r\vbox{%
14671     \unvbox\footinsv@r
14672     \@RTLtrue
14673     \def\baselinestretch{\m@mmf@footnote@spacing}%
14674     \reset@font\RTLfoottextfont
14675     \@preamfntext
14676     \protected@edef\@currentlabel{%
14677       \csname p@footnote\endcsname\@thefnmark}%
14678     \color@begingroup
14679       \@tencolRTLfootfmt{#1}%
14680     \color@endgroup}%
14681     \m@mmf@prepare
14682     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14683   }
14684 \bidi@ensure@newcommand{\@preamtenfmt}{%
14685   \hspace .1\hspace
14686   \parindent=\z@
14687   \tolerance=5000\relax
14688   \leavevmode}
14689 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14690   \@preamtenfmt
14691   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14692 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14693   \@preamtenfmt
14694   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14695 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14696   \@preamtenfmt
14697   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14698 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14699   \global\setbox
14700     \if@RTL@footnote
14701     \@mpfootinsv@r

```



```

14702 \else
14703   \@mpfootinsv@l
14704 \fi
14705 \vbox{%
14706   \unvbox
14707   \if@RTL@footnote
14708   \@mpfootinsv@r
14709 \else
14710   \@mpfootinsv@l
14711 \fi
14712   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14713   \def\baselinestretch{\m@m@footnote@spacing}%
14714   \reset@font\foottextfont
14715   \hsize\columnwidth \@parboxrestore
14716   \protected@edef\@currentlabel{%
14717     \csname p@mpfootnote\endcsname\@thefnmark}%
14718   \color@begingroup
14719     \@tencolfootfmt{#1}%
14720   \color@endgroup}%
14721   \m@m@mmf@prepare}
14722 \newcommand{\@mpTenColFootnotetext}[1]{%
14723   \if@RTL@footnote
14724     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14725   \else
14726     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14727   \fi
14728   \global\setbox
14729     \if@RTL@footnote
14730     \@mpfootinsv@r
14731   \else
14732     \@mpfootinsv@l
14733   \fi
14734   \vbox{%
14735     \unvbox
14736     \if@RTL@footnote
14737     \@mpfootinsv@r
14738   \else
14739     \@mpfootinsv@l
14740   \fi
14741     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14742     \def\baselinestretch{\m@m@footnote@spacing}%
14743     \reset@font\foottextfont
14744     \hsize\columnwidth \@parboxrestore
14745     \protected@edef\@currentlabel{%
14746       \csname p@mpfootnote\endcsname\@thefnmark}%
14747     \color@begingroup
14748       \@tencolfootfmt{#1}%
14749     \color@endgroup}%
14750     \m@m@mmf@prepare}
14751 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14752   \global\setbox\@mpfootinsv@l\vbox{%
14753     \unvbox\@mpfootinsv@l
14754     \@RTLfalse
14755     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14756 \reset@font\LTRfoottextfont
14757 \hsize\columnwidth \@parboxrestore
14758 \protected@edef\@currentlabel{%
14759 \csname p@mpfootnote\endcsname\@thefnmark}%
14760 \color@begingroup
14761 \@tencolLTRfootfmt{#1}%
14762 \color@endgroup}%
14763 \m@mmf@prepare}
14764 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14765 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14766 \global\setbox\@mpfootinsv@l\vbox{%
14767 \unvbox\@mpfootinsv@l
14768 \@RTLfalse
14769 \def\baselinestretch{\m@m@footnote@spacing}%
14770 \reset@font\LTRfoottextfont
14771 \hsize\columnwidth \@parboxrestore
14772 \protected@edef\@currentlabel{%
14773 \csname p@mpfootnote\endcsname\@thefnmark}%
14774 \color@begingroup
14775 \@tencolLTRfootfmt{#1}%
14776 \color@endgroup}%
14777 \m@mmf@prepare}
14778 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14779 \global\setbox\@mpfootinsv@r\vbox{%
14780 \unvbox\@mpfootinsv@r
14781 \@RTLtrue
14782 \def\baselinestretch{\m@m@footnote@spacing}%
14783 \reset@font\RTLfoottextfont
14784 \hsize\columnwidth \@parboxrestore
14785 \protected@edef\@currentlabel{%
14786 \csname p@mpfootnote\endcsname\@thefnmark}%
14787 \color@begingroup
14788 \@tencolRTLfootfmt{#1}%
14789 \color@endgroup}%
14790 \m@mmf@prepare}
14791 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14792 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14793 \global\setbox\@mpfootinsv@r\vbox{%
14794 \unvbox\@mpfootinsv@r
14795 \@RTLtrue
14796 \def\baselinestretch{\m@m@footnote@spacing}%
14797 \reset@font\RTLfoottextfont
14798 \hsize\columnwidth \@parboxrestore
14799 \protected@edef\@currentlabel{%
14800 \csname p@mpfootnote\endcsname\@thefnmark}%
14801 \color@begingroup
14802 \@tencolRTLfootfmt{#1}%
14803 \color@endgroup}%
14804 \m@mmf@prepare}
14805 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14806 \@namedef{\@tencol@footgroup#1}{%
14807 \def\baselinestretch{\m@m@footnote@spacing}%
14808 \hsize\bidi@columnwidth
14809 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

14810 \m@r rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}
14811 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14812 \@namedef{tencol@LTRfootgroup#1}{%
14813 \def\baselinestretch{\m@m@footnote@spacing}%
14814 \hsize\bidi@columnwidth
14815 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14816 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}
14817 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14818 \@namedef{mptencol@footgroup#1}{%
14819 \def\baselinestretch{\m@m@footnote@spacing}%
14820 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14821 \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}
14822 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14823 \@namedef{mptencol@LTRfootgroup#1}{%
14824 \def\baselinestretch{\m@m@footnote@spacing}%
14825 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14826 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}
14827 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14828 \setbox0=\vbox{\unvbox#1%
14829 \global\setbox1=\lastbox}%
14830 \unhbox1
14831 \unskip
14832 \unskip
14833 \unpenalty
14834 \hskip\m@mipn@skip}
14835 \bidi@ensure@newcommand{\m@mungebox}{%
14836 \setbox0=\hbox{\m@munvxh0}%
14837 \dp0=\z@
14838 \ht0=\footfudgefactor\wd0
14839 \box0
14840 \penalty0}
14841 \newskip\m@mipn@skip
14842 \bidi@ensure@newcommand*{\m@minterparanoteglu}[1]{%
14843 {\foottextfont\global\m@mipn@skip=#1\relax}}
14844 \m@minterparanoteglu{1em plus.3em minus.3em}
14845 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14846 \setbox0=\hbox{}%
14847 \loop
14848 \unpenalty
14849 \setbox2=\lastbox
14850 \ifhbox2
14851 \setbox0=\hbox{\box2\unhbox0}
14852 \repeat}
14853 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14854 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14855 \newcommand*{\AddExtraParaSkip}[1]{%
14856 \def\bidi@xparaskip{\advance@tempdima#1\relax}%
14857 }
14858 \let\bidi@xparaskip\relax
14859 \@onlypreamble\AddExtraParaSkip
14860 \@onlypreamble\bidi@xparaskip
14861 \def\bidi@startparafootskip#1{%
14862 \global\advance\skip#1\bidi@paraskip
14863 }

```



```

14864 \@onlypreamble\bidistartparafootskip
14865 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14866   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14867   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14868   \@bidi@before@Hy@hyperfootnotes
14869   \let\@footnotetext\@parafootnotetext
14870   \let\@LTRfootnotetext\@paraLTRfootnotetext
14871   \let\@RTLfootnotetext\@paraRTLfootnotetext
14872   \dimen\footinsv@r=\footinsdim
14873   \count\footinsv@r=1000\relax
14874   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14875   \m@make@para@footgroup{v@r}%
14876   \m@make@para@footstart{v@r}%
14877   \let\@footgroupv@r\@para@footgroupv@r
14878   \let\@footstartv@r\@para@footstartv@r
14879   \dimen\footinsv@l=\footinsdim
14880   \count\footinsv@l=1000\relax
14881   \bidi@make@para@LTRfootgroup{v@l}%
14882   \m@make@para@footstart{v@l}%
14883   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14884   \let\@footstartv@l\@para@footstartv@l
14885   \let\@mpfootnotetext\@mpparafootnotetext
14886   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14887   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14888   \@bidi@after@Hy@hyperfootnotes
14889   \m@make@mppara@footgroup{v@r}%
14890   \bidi@make@mppara@LTRfootgroup{v@l}%
14891   \let\mp@footgroupv@r\@mppara@footgroupv@r
14892   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14893   \g@addto@macro\bidifloathook{%
14894     \begingroup
14895       \foottextfont \@tempdima\normalbaselineskip
14896       \multiply \@tempdima \@cclvi
14897       \@tempdimb \columnwidth
14898       \divide \@tempdimb \@cclvi
14899       \divide \@tempdima \@tempdimb
14900       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14901     \endgroup
14902   }
14903 \AtBeginDocument{%
14904   \begingroup
14905     \foottextfont
14906     \@tempdima\footnotesep
14907     \advance\@tempdima -\ht\strutbox
14908     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14909     \advance\@tempdima.5\normalbaselineskip
14910     \bidi@xparaskip
14911     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14912   \endgroup
14913   \bidistartparafootskip\footinsv@r
14914   \bidistartparafootskip\footinsv@l
14915 }
14916 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14917 }

```



```

14918 \newcommand{\ParagraphFootnotes}{%
14919   \@namedef{foottextfontv@r}{\foottextfont}%
14920   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14921   \@bidi@before@Hy@hyperfootnotes
14922   \let\@footnotetext\@Parafootnotetext
14923   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14924   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14925   \dimen\footinsv@r=\footinsdim
14926   \count\footinsv@r=1000\relax
14927   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14928   \m@make@para@footgroup{v@r}%
14929   \m@make@para@footstart{v@r}%
14930   \let\@footgroupv@r\@para@footgroupv@r
14931   \let\@footstartv@r\@para@footstartv@r
14932   \dimen\footinsv@l=\footinsdim
14933   \count\footinsv@l=1000\relax
14934   \bidi@make@para@LTRfootgroup{v@l}%
14935   \m@make@para@footstart{v@l}%
14936   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14937   \let\@footstartv@l\@para@footstartv@l
14938   \let\@mpfootnotetext\@mpParafootnotetext
14939   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14940   \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14941   \@bidi@after@Hy@hyperfootnotes
14942   \m@make@mppara@footgroup{v@r}%
14943   \bidi@make@mppara@LTRfootgroup{v@l}%
14944   \let\mp@footgroupv@r\@mppara@footgroupv@r
14945   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14946   \g@addto@macro\@bidi@floathook{%
14947     \begingroup
14948       \foottextfont \@tempdima\normalbaselineskip
14949       \multiply \@tempdima \@cclvi
14950       \@tempdimb \columnwidth
14951       \divide \@tempdimb \@cclvi
14952       \divide \@tempdima \@tempdimb
14953       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14954     \endgroup
14955   }
14956 \AtBeginDocument{%
14957   \begingroup
14958     \foottextfont
14959     \@tempdima\footnotesep
14960     \advance\@tempdima -\ht\strutbox
14961     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14962     \advance\@tempdima.5\normalbaselineskip
14963     \bidi@xparaskip
14964     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14965   \endgroup
14966   \bidi@startparafootskip\footinsv@r
14967   \bidi@startparafootskip\footinsv@l
14968 }
14969 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14970 }
14971 \newcommand{\normalRTLparaLTRfootnotes}{%

```



```

14972 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14973 \@bidi@before@Hy@hyperfootnotes
14974 \if@RTL@footnote
14975   \let\@footnotetext\m@mold@footnotetext
14976 \else
14977   \let\@footnotetext\@parafootnotetext
14978 \fi
14979 \let\@LTRfootnotetext\@paraLTRfootnotetext
14980 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14981 \dimen\footinsv@1=\footinsdim
14982 \count\footinsv@1=1000\relax
14983 \let\@bidi@removexfootskip\@bidi@removexparafootskip
14984 \bidi@make@para@LTRfootgroup{v@1}%
14985 \m@make@para@footstart{v@1}%
14986 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
14987 \let\@footstartv@1\@para@footstartv@1
14988 \if@RTL@footnote
14989   \let\@mpfootnotetext\m@mold@mpfootnotetext
14990 \else
14991   \let\@mpfootnotetext\@mpparafootnotetext
14992 \fi
14993 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14994 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14995 \@bidi@after@Hy@hyperfootnotes
14996 \bidi@make@mppara@LTRfootgroup{v@1}%
14997 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
14998 \g@addto@macro\bidi@floathook{%
14999   \begingroup
15000     \LTRfoottextfont \@tempdima\normalbaselineskip
15001     \multiply \@tempdima \@cclvi
15002     \@tempdimb \columnwidth
15003     \divide \@tempdimb \@cclvi
15004     \divide \@tempdima \@tempdimb
15005     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15006   \endgroup
15007 }
15008 \AtBeginDocument{%
15009   \begingroup
15010     \LTRfoottextfont
15011     \@tempdima\footnotesep
15012     \advance\@tempdima -\ht\strutbox
15013     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
15014     \advance\@tempdima.5\normalbaselineskip
15015     \bidi@xparaskip
15016     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15017   \endgroup
15018   \bidi@startparafootskip\footinsv@1
15019 }
15020 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15021 }
15022 \newcommand{\NormalRTLParaLTRFootnotes}{%
15023   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15024   \@bidi@before@Hy@hyperfootnotes
15025   \if@RTL@footnote

```





```

15026 \let\@footnotetext\@bidi@bidiold@footnotetext
15027 \else
15028 \let\@footnotetext\@Parafootnotetext
15029 \fi
15030 \let\@LTRfootnotetext\@ParaLTRfootnotetext
15031 \let\@RTLfootnotetext\@bidi@bidiold@RTLfootnotetext
15032 \dimen\footinsv@l=\footinsdim
15033 \count\footinsv@l=1000\relax
15034 \let\@bidi@removexfootskip\@bidi@removexparafootskip
15035 \@bidi@make@para@LTRfootgroup{v@l}%
15036 \@make@para@footstart{v@l}%
15037 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15038 \let\@footstartv@l\@para@footstartv@l
15039 \if@RTL@footnote
15040 \let\@mpfootnotetext\@bidi@bidiold@mpfootnotetext
15041 \else
15042 \let\@mpfootnotetext\@mpParafootnotetext
15043 \fi
15044 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15045 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15046 \@bidi@after@Hy@hyperfootnotes
15047 \@bidi@make@mppara@LTRfootgroup{v@l}%
15048 \let\@mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15049 \g@addto@macro\@bidi@floathook{%
15050 \begingroup
15051 \LTRfoottextfont \@tempdima\normalbaselineskip
15052 \multiply \@tempdima \@cclvi
15053 \@tempdimb \columnwidth
15054 \divide \@tempdimb \@cclvi
15055 \divide \@tempdima \@tempdimb
15056 \xdef\footfudgefactor{\strip@pt\@tempdima}%
15057 \endgroup
15058 }
15059 \AtBeginDocument{%
15060 \begingroup
15061 \LTRfoottextfont
15062 \@tempdima\footnotesep
15063 \advance\@tempdima -\ht\strutbox
15064 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15065 \advance\@tempdima.5\normalbaselineskip
15066 \@bidi@xparaskip
15067 \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15068 \endgroup
15069 \@bidi@startparafootskip\footinsv@l
15070 }
15071 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15072 }
15073 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15074 \if@RTL@footnote
15075 \footinsv@r
15076 \else
15077 \footinsv@l
15078 \fi
15079 }%

```



```

15080 \let\bid@RTL@everypar\@empty%
15081 \def\baselinestretch{\m@#footnote@spacing}%
15082 \reset@font\foottextfont
15083 \@preamfntext
15084 \protected@edef\@currentlabel{%
15085   \csname p@footnote\endcsname\@thefnmark}%
15086 \setbox0=\vbox{\hsize=\maxdimen
15087   \color@begingroup
15088   \noindent \@parafootfmt{#1}%
15089   \color@endgroup}%
15090 \m@#ungebox}\m@#mf@prepare}
15091 \newcommand{\@Parafootnotetext}[1]{%
15092   \bid@step@absolutefootnote@count
15093   \if@RTL@footnote
15094     \bid@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15095   \else
15096     \bid@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15097   \fi
15098 \global\setbox
15099 \if@RTL@footnote
15100   \footinsv@r
15101 \else
15102   \footinsv@l
15103 \fi
15104 \vbox{%
15105   \unvbox
15106   \if@RTL@footnote
15107     \footinsv@r
15108   \else
15109     \footinsv@l
15110   \fi
15111 \let\bid@RTL@everypar\@empty%
15112 \def\baselinestretch{\m@#footnote@spacing}%
15113 \reset@font\foottextfont
15114 \@preamfntext
15115 \protected@edef\@currentlabel{%
15116   \csname p@footnote\endcsname\@thefnmark}%
15117 \setbox0=\vbox{\hsize=\maxdimen
15118   \color@begingroup
15119   \noindent \@parafootfmt{#1}%
15120   \color@endgroup}%
15121 \m@#ungebox}\m@#mf@prepare}
15122 \if@RTL@footnote
15123   \bid@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15124 \else
15125   \bid@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15126 \fi
15127 }
15128 \bid@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15129 \let\bid@RTL@everypar\@empty%
15130 \def\baselinestretch{\m@#footnote@spacing}%
15131 \reset@font\LTRfoottextfont
15132 \@preamfntext
15133 \protected@edef\@currentlabel{%

```



```

15134 \csname p@footnote\endcsname\@thefnmark}%
15135 \setbox0=\vbox{\hsize=\maxdimen
15136 \color@begingroup
15137 \noindent \@paraLTRfootfmt{#1}%
15138 \color@endgroup}%
15139 \m@mungebox}\m@mmf@prepare}
15140 \newcommand{\@ParaLTRfootnotetext}[1]{%
15141 \bidi@step@absolute@footnote@count
15142 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15143 \global\setbox\footinsv@l\vbox{%
15144 \unvbox\footinsv@l
15145 \let\bidi@RTL@everypar\@empty%
15146 \def\baselinestretch{\m@m@footnote@spacing}%
15147 \reset@font\LTRfoottextfont
15148 \@preamfntext
15149 \protected@edef\@currentlabel{%
15150 \csname p@footnote\endcsname\@thefnmark}%
15151 \setbox0=\vbox{\hsize=\maxdimen
15152 \color@begingroup
15153 \noindent \@paraLTRfootfmt{#1}%
15154 \color@endgroup}%
15155 \m@mungebox}\m@mmf@prepare
15156 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15157 }
15158 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15159 \let\bidi@RTL@everypar\@empty%
15160 \def\baselinestretch{\m@m@footnote@spacing}%
15161 \reset@font\RTLfoottextfont
15162 \@preamfntext
15163 \protected@edef\@currentlabel{%
15164 \csname p@footnote\endcsname\@thefnmark}%
15165 \setbox0=\vbox{\hsize=\maxdimen
15166 \color@begingroup
15167 \noindent \@paraRTLfootfmt{#1}%
15168 \color@endgroup}%
15169 \m@mungebox}\m@mmf@prepare}
15170 \newcommand{\@ParaRTLfootnotetext}[1]{%
15171 \bidi@step@absolute@footnote@count
15172 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15173 \global\setbox\footinsv@r\vbox{%
15174 \unvbox\footinsv@r
15175 \let\bidi@RTL@everypar\@empty%
15176 \def\baselinestretch{\m@m@footnote@spacing}%
15177 \reset@font\RTLfoottextfont
15178 \@preamfntext
15179 \protected@edef\@currentlabel{%
15180 \csname p@footnote\endcsname\@thefnmark}%
15181 \setbox0=\vbox{\hsize=\maxdimen
15182 \color@begingroup
15183 \noindent \@paraRTLfootfmt{#1}%
15184 \color@endgroup}%
15185 \m@mungebox}\m@mmf@prepare
15186 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15187 }

```



```

15188 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15189   \parindent=\z@
15190   \parfillskip=0pt \@plus 1fil
15191   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15192 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15193   \parindent=\z@
15194   \parfillskip=0pt \@plus 1fil
15195   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15196 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15197   \parindent=\z@
15198   \parfillskip=0pt \@plus 1fil
15199   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15200 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15201   \global\setbox
15202   \if@RTL@footnote
15203     \@mpfootinsv@r
15204   \else
15205     \@mpfootinsv@l
15206   \fi
15207   \vbox{%
15208     \unvbox
15209     \if@RTL@footnote
15210       \@mpfootinsv@r
15211     \else
15212       \@mpfootinsv@l
15213     \fi
15214     \let\bidi@RTL@everypar\@empty
15215     \def\baselinestretch{\m@m@footnote@spacing}%
15216     \reset@font\foottextfont
15217     \hsize\columnwidth \@parboxrestore
15218     \protected@edef\@currentlabel{%
15219       \csname p@mpfootnote\endcsname\@thefnmark}%
15220     \setbox0=\vbox{\hsize=\maxdimen
15221       \color@begingroup
15222       \noindent \@parafootfmt{#1}%
15223       \color@endgroup}%
15224     \m@mungebox}\m@mmf@prepare}
15225 \newcommand{\@mpParafootnotetext}[1]{%
15226   \if@RTL@footnote
15227     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15228   \else
15229     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15230   \fi
15231   \global\setbox
15232   \if@RTL@footnote
15233     \@mpfootinsv@r
15234   \else
15235     \@mpfootinsv@l
15236   \fi
15237   \vbox{%
15238     \unvbox
15239     \if@RTL@footnote
15240       \@mpfootinsv@r
15241     \else

```



```

15242     \@mpfootinsv@l
15243     \fi
15244     \let\bidirTL@everypar\@empty
15245     \def\baselinestretch{\m@m@footnote@spacing}%
15246     \reset@font\foottextfont
15247     \hsize\columnwidth \@parboxrestore
15248     \protected@edef\@currentlabel{%
15249       \csname p@mpfootnote\endcsname\@thefnmark}%
15250     \setbox0=\vbox{\hsize=\maxdimen
15251       \color@begingroup
15252       \noindent \@parafootfmt{#1}%
15253       \color@endgroup}%
15254     \m@mungebox}\m@mmf@prepare}
15255 \bidi@ensure@newcommand{\mpparaLTRfootnotetext}[1]{%
15256   \global\setbox\@mpfootinsv@l\vbox{%
15257     \unvbox\@mpfootinsv@l
15258     \let\bidirTL@everypar\@empty
15259     \def\baselinestretch{\m@m@footnote@spacing}%
15260     \reset@font\LTRfoottextfont
15261     \hsize\columnwidth \@parboxrestore
15262     \protected@edef\@currentlabel{%
15263       \csname p@mpfootnote\endcsname\@thefnmark}%
15264     \setbox0=\vbox{\hsize=\maxdimen
15265       \color@begingroup
15266       \noindent \@paraLTRfootfmt{#1}%
15267       \color@endgroup}%
15268     \m@mungebox}\m@mmf@prepare}
15269 \newcommand{\mpParaLTRfootnotetext}[1]{%
15270   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15271   \global\setbox\@mpfootinsv@l\vbox{%
15272     \unvbox\@mpfootinsv@l
15273     \let\bidirTL@everypar\@empty
15274     \def\baselinestretch{\m@m@footnote@spacing}%
15275     \reset@font\LTRfoottextfont
15276     \hsize\columnwidth \@parboxrestore
15277     \protected@edef\@currentlabel{%
15278       \csname p@mpfootnote\endcsname\@thefnmark}%
15279     \setbox0=\vbox{\hsize=\maxdimen
15280       \color@begingroup
15281       \noindent \@paraLTRfootfmt{#1}%
15282       \color@endgroup}%
15283     \m@mungebox}\m@mmf@prepare}
15284 \bidi@ensure@newcommand{\mpparaRTLfootnotetext}[1]{%
15285   \global\setbox\@mpfootinsv@r\vbox{%
15286     \unvbox\@mpfootinsv@r
15287     \let\bidirTL@everypar\@empty
15288     \def\baselinestretch{\m@m@footnote@spacing}%
15289     \reset@font\RTLfoottextfont
15290     \hsize\columnwidth \@parboxrestore
15291     \protected@edef\@currentlabel{%
15292       \csname p@mpfootnote\endcsname\@thefnmark}%
15293     \setbox0=\vbox{\hsize=\maxdimen
15294       \color@begingroup
15295       \noindent \@paraRTLfootfmt{#1}%

```



```

15296     \color@endgroup}%
15297 \m@mungebox}\m@mmf@prepare}
15298 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15299   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15300   \global\setbox\@mpfootinsv@r\vbox{%
15301     \unvbox\@mpfootinsv@r
15302     \let\bidi@RTL@everypar\@empty
15303     \def\baselinestretch{\m@m@footnote@spacing}%
15304     \reset@font\RTLfoottextfont
15305     \hsize\columnwidth \@parboxrestore
15306     \protected@edef\@currentlabel{%
15307       \csname p@mpfootnote\endcsname\@thefnmark}%
15308     \setbox0=\vbox{\hsize=\maxdimen
15309       \color@beginngroup
15310       \noindent \@paraRTLfootfmt{#1}%
15311       \color@endgroup}%
15312   \m@mungebox}\m@mmf@prepare}
15313 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15314 \@namedef{@para@footgroup#1}{%
15315   \unvbox\@nameuse{footins#1}
15316   \@RTLtrue
15317   \m@mmakehboxofhboxes
15318   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15319   \hsize\bidi@columnwidth
15320   \@parboxrestore
15321   \def\baselinestretch{\m@m@footnote@spacing}%
15322   \@nameuse{foottextfont#1}%
15323   \noindent\unhbox0\par}}
15324 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15325 \@namedef{@para@LTRfootgroup#1}{%
15326   \unvbox\@nameuse{footins#1}
15327   \@RTLfalse
15328   \m@mmakehboxofhboxes
15329   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15330   \hsize\bidi@columnwidth
15331   \@parboxrestore
15332   \def\baselinestretch{\m@m@footnote@spacing}%
15333   \@nameuse{foottextfont#1}%
15334   \noindent\unhbox0\par}}
15335 \newcommand{\bidi@removexparafootskip}{%
15336   \advance\@tempskipa -\bidi@paraskip
15337   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15338 }
15339 \let\bidi@removexfootskip\relax
15340 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15341 \@namedef{@mppara@footgroup#1}{%
15342   \unvbox\@nameuse{@mpfootins#1}
15343   \@RTLtrue
15344   \m@mmakehboxofhboxes
15345   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15346   \def\baselinestretch{\m@m@footnote@spacing}%
15347   \@nameuse{foottextfont#1}%
15348   \noindent\unhbox0\par}}
15349 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%

```



```

15350 \@namedef{@mppara@LTRfootgroup#1}{%
15351   \unvbox\@nameuse{@mpfootins#1}
15352   \@RTLfalse
15353   \m@mmakehboxofhboxes
15354   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15355   \def\baselinestretch{\m@m@footnote@spacing}%
15356   \@nameuse{foottextfont#1}%
15357   \noindent\unhbox0\par}}
15358 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15359 \@namedef{@para@footstart#1}{%
15360   \leftskip=\z@
15361   \rightskip=\z@
15362   \parindent=\z@
15363   }%
15364 }
15365 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15366   \xdef\@freelist{\@freelist\@midlist}%
15367   \global\let\@midlist\@empty
15368   \@combinefloats}
15369 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15370   \ifvbox\@kludgeins
15371     \@makespecialcolbox
15372   \else
15373     \setbox\@outputbox \vbox to\@colht{%
15374       \@texttop
15375       \dimen@ \dp\@outputbox
15376       \unvbox \@outputbox
15377       \vskip -\dimen@
15378       \@textbottom}%
15379   \fi}
15380 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15381 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15382   \boxmaxdepth\@maxdepth
15383   \@tempdima\dp\@cclv
15384   \unvbox\@cclv
15385   \vskip-\@tempdima
15386   \bidi@mopfn@bottom
15387   \vskip \skip\footins
15388   \color@begingroup
15389     \normalcolor
15390     \footnoterule
15391     \unvbox \footins
15392   \color@endgroup
15393   }%
15394 }
15395 \newcommand*{\bidi@mopfootnotebf}{%
15396   \setbox\@outputbox \vbox{%
15397     \boxmaxdepth\@maxdepth
15398     \unvbox\@outputbox
15399     \bidi@mopfn@bottom
15400     \vskip\skip\footins
15401     \color@begingroup
15402       \normalcolor
15403       \footnoterule

```



```

15404   \unvbox \footins
15405   \color@endgroup
15406   }%
15407 }
15408 \gdef\mem@makecol{%
15409   \m@m@makecolintro
15410   \m@m@doextrafeet
15411   \ifvoid\footins
15412     \setbox\@outputbox \box\@cclv
15413   \else
15414     \m@mopfootnote
15415   \fi
15416   \m@m@makecolfloats
15417   \m@m@makecoltext
15418   \global \maxdepth \@maxdepth}
15419 \gdef\bidi@makecolbf{%
15420   \m@m@makecolintro
15421   \m@m@doextrafeet
15422   \setbox\@outputbox \box\@cclv
15423   \m@m@makecolfloats
15424   \ifvoid\footins
15425   \else
15426     \bidi@mopfootnotebf
15427   \fi
15428   \m@m@makecoltext
15429   \global \maxdepth \@maxdepth}
15430 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15431 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15432 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15433 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15434 \FeetAboveFloat
15435 \FeetBelowRagged
15436 \def\bidi@reinserts#1{\ifvoid#1\else
15437   \ifnum\count\@currbox>\z@
15438     \advance\@pageht \ht#1%
15439     \advance\@pageht \skip#1%
15440     \advance\@pageht \dp#1%
15441   \fi
15442   \insert#1{\unvbox#1}%
15443   \fi
15444 }
15445 \def\bidi@init@multi@footins#1{%
15446   \multiply\count#1\col@number
15447   \multiply\skip#1\col@number
15448 }
15449 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15450   \insert#1{\fi}
15451 \AtBeginDocument{%
15452   \bidi@preto\@doclearpage\m@m@doextrafeet
15453   \g@addto@macro\@reinserts{%
15454     \bidi@reinserts\footinsv@r
15455     \bidi@reinserts\footinsv@l
15456   }
15457   \bidi@floathook

```





```

15458 \g@addto@macro\@floatplacement{%
15459   \bidi@ifmulticol}{\bidi@floathook}%
15460 }%
15461 \if@bidi@csundef{multi@column@out}{%
15462   \@onlypreamble\bidi@init@multi@footins
15463   \let\bidi@ifmulticol\@secondoftwo
15464 }{%
15465   \bidi@preto\multi@column@out\m@mdoextrafeet
15466   \g@addto@macro\init@mult@footins{%
15467     \bidi@init@multi@footins\footinsv@r
15468     \bidi@init@multi@footins\footinsv@l
15469   }%
15470   \g@addto@macro\reinsert@footnotes{%
15471     \bidi@reinsert@footnotes\footinsv@r
15472     \bidi@reinsert@footnotes\footinsv@l
15473   }%
15474 }%
15475 }

```

## 87 File extreport-xetex-bidi.def

```

15476 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15477 \renewcommand*\l@part[2]{%
15478   \ifnum \c@tocdepth >-2\relax
15479     \addpenalty{-\@highpenalty}%
15480     \addvspace{2.25em \@plus\p@}%
15481     \begingroup
15482       \setlength\@tempdima{3em}%
15483       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15484       \parfillskip -\@pnumwidth
15485       {\leavevmode
15486         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15487       \nobreak
15488       \global\@nobreaktrue
15489       \everypar{\global\@nobreakfalse\everypar{}}%
15490     \endgroup
15491   \fi}
15492 \renewcommand*\l@chapter[2]{%
15493   \ifnum \c@tocdepth >\m@ne
15494     \addpenalty{-\@highpenalty}%
15495     \vskip 1.0em \@plus\p@
15496     \setlength\@tempdima{1.5em}%
15497     \begingroup
15498       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15499       \parfillskip -\@pnumwidth
15500       \leavevmode \bfseries
15501       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15502       \hskip -\if@RTL\rightskip\else\leftskip\fi
15503       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15504       \penalty\@highpenalty
15505     \endgroup
15506   \fi}
15507 \def\@makechapterhead#1{%
15508   \vspace*{50\p@}%

```



```

15509 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15510 \ifnum \c@secnumdepth >\m@ne
15511 \huge\bfseries \@chapapp\space \thechapter
15512 \par\nobreak
15513 \vskip 20\p@
15514 \fi
15515 \interlinepenalty\@M
15516 \Huge \bfseries #1\par\nobreak
15517 \vskip 40\p@
15518 }}
15519 \def\@makeschapterhead#1{%
15520 \vspace*{50\p@}%
15521 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15522 \normalfont
15523 \interlinepenalty\@M
15524 \Huge \bfseries #1\par\nobreak
15525 \vskip 40\p@
15526 }}
15527 \renewcommand\left@footnoterule{%
15528 \kern-3\p@
15529 \hrule\@width.4\columnwidth
15530 \kern2.6\p@}
15531 \renewcommand\right@footnoterule{%
15532 \kern-3\p@
15533 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15534 \kern2.6\p@}
15535 \renewenvironment{thebibliography}[1]
15536 {\chapter*\bibname
15537 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15538 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15539 \bidi@thebibliography@font@hook%
15540 \list{\@biblabel{\@arabic\c@enumiv}}%
15541 {\settowidth\labelwidth{\@biblabel{#1}}%
15542 \leftmargin\labelwidth
15543 \advance\leftmargin\labelsep
15544 \@openbib@code
15545 \usecounter{enumiv}%
15546 \let\p@enumiv\@empty
15547 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15548 \sloppy\clubpenalty4000\widowpenalty4000%
15549 \sfcode\.\@m}
15550 {\def\@noitemerr
15551 {\@latex@warning{Empty `thebibliography' environment}}%
15552 \endlist}
15553 \if@titlepage
15554 \renewcommand\maketitle{\begin{titlepage}%
15555 \let\footnotesize\small
15556 \let\right@footnoterule\relax
15557 \let\left@footnoterule\relax
15558 \let\textwidth\footnoterule\relax
15559 \let\footnote\thanks
15560 \null\vfil
15561 \vskip 60\p@
15562 \begin{center}%

```



```

15563     {\LARGE \@title \par}%
15564     \vskip 3em%
15565     {\large
15566       \lineskip .75em%
15567       \begin{tabular}[t]{c}%
15568         \@author
15569         \end{tabular}\par}%
15570     \vskip 1.5em%
15571     {\large \@date \par}%           % Set date in \large size.
15572 \end{center}\par
15573 \@thanks
15574 \vfil\null
15575 \end{titlepage}%
15576 \setcounter{footnote}{0}%
15577 \global\let\thanks\relax
15578 \global\let\maketitle\relax
15579 \global\let\@thanks\@empty
15580 \global\let\@author\@empty
15581 \global\let\@date\@empty
15582 \global\let\@title\@empty
15583 \global\let\title\relax
15584 \global\let\author\relax
15585 \global\let\date\relax
15586 \global\let\and\relax
15587 }
15588 \else
15589 \renewcommand\maketitle{\par
15590   \begingroup
15591     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15592     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15593     \long\def\@makefntext##1{\parindent 1em\noindent
15594       \hb@xt@1.8em{\%
15595         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15596     \if@twocolumn
15597       \ifnum \col@number=\@ne
15598         \@maketitle
15599       \else
15600         \twocolumn[\@maketitle]%
15601       \fi
15602     \else
15603       \newpage
15604       \global\@topnum\z@   % Prevents figures from going at top of page.
15605       \@maketitle
15606     \fi
15607     \thispagestyle{plain}\@thanks
15608   \endgroup
15609   \setcounter{footnote}{0}%
15610   \global\let\thanks\relax
15611   \global\let\maketitle\relax
15612   \global\let\@maketitle\relax
15613   \global\let\@thanks\@empty
15614   \global\let\@author\@empty
15615   \global\let\@date\@empty
15616   \global\let\@title\@empty

```



```

15617 \global\let\title\relax
15618 \global\let\author\relax
15619 \global\let\date\relax
15620 \global\let\and\relax
15621 }
15622 \def\@maketitle{%
15623 \newpage
15624 \null
15625 \vskip 2em%
15626 \begin{center}%
15627 \let \footnote \thanks
15628 {\LARGE \@title \par}%
15629 \vskip 1.5em%
15630 {\large
15631 \lineskip .5em%
15632 \begin{tabular}[t]{c}%
15633 \@author
15634 \end{tabular}\par}%
15635 \vskip 1em%
15636 {\large \@date}%
15637 \end{center}%
15638 \par
15639 \vskip 1.5em}
15640 \fi
15641 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15642 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15643 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15644 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15645 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15646 \renewcommand\theequation{%
15647 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15648 \renewcommand\thefigure{%
15649 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15650 \renewcommand\thetable{%
15651 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

15652 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15653 \def\fancy@oval#1#2#3{%
15654 \boxmaxdepth \maxdimen
15655 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15656 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15657 \@ovxx#1\relax
15658 \advance\@ovxx-\@wholewidth
15659 \@ovyy#2\relax
15660 \advance\@ovyy-\@wholewidth
15661 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
15662 \advance\@tempdimb-2\p@
15663 \ifdim\@tempdimb>\the@cornersize\relax
15664 \@tempdimb=\the@cornersize
15665 \fi
15666 \@getcirc\@tempdimb
15667 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa

```



```

15668 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15669 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15670 \@circlefnt
15671 \setbox\@tempboxa\hbox{\beginL%
15672   \if@ovr \@ovvert32\kern -\@tempdima \fi
15673   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15674   \if@ovt \@ovhorz \kern -\@ovxx \fi
15675   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15676 \advance\@ovdx\@ovro
15677 \advance\@ovdy\@ovro
15678 \advance\@ovxx\@wholewidth
15679 \wd\@tempboxa=\@ovxx
15680 \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

15681 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/01/07 v0.9 bidi adaptations for fancyhdr package]
15682
15683 \let\f@nch@everypar\everypar
15684
15685 \bidi@patchcmd\f@nch@hfbbox@center\raggedright\bidi@raggedright
15686 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@center' failed}}
15687 \bidi@patchcmd\f@nch@hfbbox@center\raggedleft\bidi@raggedleft
15688 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@center' failed}}
15689
15690 \bidi@patchcmd\f@nch@hfbbox@fit\raggedright\bidi@raggedright
15691 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@fit' failed}}
15692 \bidi@patchcmd\f@nch@hfbbox@fit\raggedleft\bidi@raggedleft
15693 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@fit' failed}}
15694

```

## 90 File fix2col-xetex-bidi.def

```

15695 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15696 \def\RTL@outputdblcol{%
15697   \if@firstcolumn
15698     \global\@firstcolumnfalse
15699     \global\setbox\@leftcolumn\copy\@outputbox
15700     \splitmaxdepth\maxdimen
15701     \vbadness\maxdimen
15702     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15703     \toks@\expandafter{\topmark}%
15704     \xdef\@firstcoltopmark{\the\toks@}%
15705     \toks@\expandafter{\splitfirstmark}%
15706     \xdef\@firstcolfirstmark{\the\toks@}%
15707     \ifx\@firstcolfirstmark\@empty
15708       \global\let\@setmarks\relax
15709     \else
15710       \gdef\@setmarks{%
15711         \let\firstmark\@firstcolfirstmark
15712         \let\topmark\@firstcoltopmark}%
15713     \fi
15714 \else \global\@firstcolumntrue
15715 \setbox\@outputbox \vbox {\hbox to\textwidth {%

```



```

15716 \hskip \columnwidth
15717 \hfil \vrule width\columnseprule \hfil
15718 \hbox to\columnwidth {%
15719 \bidi@firstcolumn@status@write%
15720 \box\@leftcolumn \hss}%
15721 \hskip -\textwidth
15722 \hbox to\columnwidth{%
15723 \bidi@lastcolumn@status@write%
15724 \box\@outputbox \hss}%
15725 \hskip \columnsep
15726 \hskip \columnwidth }}%
15727 \@combinedblfloats \@setmarks \@outputpage
15728 \begingroup \@dblfloatplacement \@startdblcolumn
15729 \@whiles\if@colmade \fi
15730 {\@outputpage \@startdblcolumn }\endgroup
15731 \fi}
15732 \def\LTR@outputdblcol{%
15733 \if@firstcolumn
15734 \global\@firstcolumnfalse
15735 \global\setbox\@leftcolumn\copy\@outputbox
15736 \splitmaxdepth\maxdimen
15737 \vbadness\maxdimen
15738 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15739 \toks@\expandafter{\topmark}%
15740 \xdef\@firstcoltopmark{\the\toks@}%
15741 \toks@\expandafter{\splitfirstmark}%
15742 \xdef\@firstcolfirstmark{\the\toks@}%
15743 \ifx\@firstcolfirstmark\@empty
15744 \global\let\@setmarks\relax
15745 \else
15746 \gdef\@setmarks{%
15747 \let\firstmark\@firstcolfirstmark
15748 \let\topmark\@firstcoltopmark}%
15749 \fi
15750 \else
15751 \global\@firstcolumntrue
15752 \setbox\@outputbox\vbox{%
15753 \hb@xt@\textwidth{%
15754 \hb@xt@\columnwidth{%
15755 \bidi@firstcolumn@status@write%
15756 \box\@leftcolumn \hss}%
15757 \hfil
15758 \vrule \@width\columnseprule
15759 \hfil
15760 \hb@xt@\columnwidth{%
15761 \bidi@lastcolumn@status@write%
15762 \box\@outputbox \hss}}}%
15763 \@combinedblfloats
15764 \@setmarks
15765 \@outputpage
15766 \begingroup
15767 \@dblfloatplacement
15768 \@startdblcolumn
15769 \@whiles\if@colmade \fi{\@outputpage\@startdblcolumn}%

```



```

15770 \endgroup
15771 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

15772 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX
15773 \DeclareRobustCommand\{\relax
15774     \ifmmode\@badmath
15775     \else
15776     \begin{trivlist}%
15777     \@beginparpenalty\predisplaypenalty
15778     \@endparpenalty\postdisplaypenalty
15779     \item[]\leavevmode
15780     \hb@xt@\linewidth\bgroup \beginL$m@th\displaystyle %$
15781     \hskip\mathindent\bgroup
15782     \fi}
15783 \DeclareRobustCommand\{\relax
15784     \ifmmode
15785     \egroup $\hfil% $
15786     \endL\egroup
15787     \end{trivlist}%
15788     \else \@badmath
15789     \fi}
15790 \renewenvironment{equation}%
15791     {\@beginparpenalty\predisplaypenalty
15792     \@endparpenalty\postdisplaypenalty
15793     \refstepcounter{equation}%
15794     \trivlist \item[]\leavevmode
15795     \hb@xt@\linewidth\bgroup\beginL $m@th% $
15796     \displaystyle
15797     \hskip\mathindent}%
15798     {$\hfil % $
15799     \displaywidth\linewidth\hbox{\@eqnnum}%
15800     \endL\egroup
15801     \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

15802 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15803 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15804 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15805 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15806 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
15807     \expandafter\edef\csname the#1\endcsname{%
15808     \expandafter\noexpand\csname
15809     the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15810     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 93 File floatrow-xetex-bidi.def

```

15811 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15812 \RequirePackage{color}
15813 \renewcommand\flnew@within[1]{\@addtoreset{\FB@captype}{#1}%
15814 \expandafter\edef\csname the\FB@captype\endcsname{%

```



```

15815 \expandafter\noexpand\csname
15816 the#1\endcsname\@SepMark\noexpand\arabic{\FB@captype}}

```

## 94 File flowfram-xetex-bidi.def

```

15817 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package]
15818 \def\@outputdblcol{%
15819 \@nxtcol=\c@thisframe
15820 \c@curpg=\c@page
15821 \g@tnextcol{\@nxtcol}%
15822 \iff@nwpg % next flow frame starts on new page
15823 \global\@firstcolumntrue
15824 \@setcolbox\c@thisframe
15825 \if@specialpage
15826 \global\@specialpagefalse
15827 \nameuse{ps@\@specialstyle}\relax
15828 \fi
15829 \if@twoside
15830 \ifodd\count\z@
15831 \let\@thehead\@oddhead
15832 \let\@thefoot\@oddfoot
15833 \else
15834 \let\@thehead\@evenhead
15835 \let\@thefoot\@evenfoot
15836 \fi
15837 \else
15838 \let\@thehead\@oddhead
15839 \let\@thefoot\@oddfoot
15840 \fi
15841 \@beginindvi
15842 \@dodynamicthehead\@dodynamicthefoot
15843 \vbadness=\@M
15844 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15845 \@combinedblfloats
15846 \@outputpage
15847 \advance\c@curpg by -\c@page\relax
15848 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15849 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15850 \@outputpage}
15851 \begingroup
15852 \dblfloatplacement
15853 \@startdblcolumn
15854 \@whilesw \iffcolmade \fi
15855 {\@outputpage \@startdblcolumn }\endgroup
15856 \@resetst@tics
15857 \@resetdyn@mics
15858 \else % still on same page, save contents of box255
15859 \global\@firstcolumnfalse
15860 \@setcolbox\c@thisframe
15861 \fi
15862 \global\c@thisframe=\@nxtcol
15863 \@setcol{\c@thisframe}\relax
15864 \global\@colht\vsizel
15865 }

```





```

15866 \def \@outputpage{%
15867 \begingroup
15868 \let\protect\noexpand
15869 \@resetactivechars
15870 \global\let\@if@newlist@if@newlist
15871 \global\@newlistfalse\@parboxrestore
15872 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15873 \bidi@beforeoutputpageshipouthook
15874 \shipout\vbox{\set@typeset@protect
15875 \aftergroup
15876 \endgroup
15877 \aftergroup
15878 \set@typeset@protect
15879 \reset@font\normalsize
15880 \bidi@font\@outputpage
15881 \normalsfcodes
15882 \let\label@gobble
15883 \let\index@gobble
15884 \let\glossary@gobble
15885 \baselineskip\z@skip
15886 \lineskip\z@skip
15887 \lineskiplimit\z@
15888 \vskip\topmargin\moveright\@themargin
15889 \vbox{%
15890 \global\let\@bidi@BeforeHeader\@firstofone
15891 \bidi@beforeheaderhook
15892 \vskip\headheight
15893 \vskip\headsep
15894 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
15895 \bidi@beforeoutputboxoutputpagehook
15896 \box\@outputbox
15897 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
15898 \bidi@afteroutputboxoutputpagehook
15899 }}%
15900 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
15901 \bidi@afteroutputpageshipouthook
15902 \global\let@if@newlist\@if@newlist
15903 \stepcounter{page}%
15904 \setcounter{displayedframe}{0}%
15905 \let\firstmark\botmark
15906 \global\let\@bidi@AtEndOutputPage\@firstofone
15907 \bidi@atendoutputpagehook
15908 }
15909
15910
15911 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
15912 \expandafter\bidicolor\ff@txtcol}}
15913
15914 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15915 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15916
15917
15918 \renewcommand*\@docolbox}[1]{%
15919 \edef\ff@frametype{%

```



```

15920 \csname @ff@frametype@romannumeral#1\endcsname}%
15921 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
15922 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
15923 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
15924 \ff@setoffset{#1}%
15925 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
15926 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
15927 \ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15928 {\csname colheight\romannumeral#1\endcsname}{%
15929 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15930 \csname\ff@frametype\endcsname}%
15931 }{%
15932 \bidi\ff@box{\csname colwidth\romannumeral#1\endcsname}%
15933 {\csname colheight\romannumeral#1\endcsname}{%
15934 \expandafter\box\csname column\romannumeral#1\endcsname}%
15935 }}}
15936 \IfClassLoadedT{book}{%
15937 \renewcommand\theequation
15938   {\ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15939 \renewcommand \thefigure
15940   {\ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15941 \renewcommand \thetable
15942   {\ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@table}
15943 \renewcommand \thechapter {\@arabic\c@chapter}
15944 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15945 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15946 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15947 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15948 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15949 \IfClassLoadedT{report}{%
15950 \renewcommand\theequation
15951   {\ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15952 \renewcommand \thefigure
15953   {\ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15954 \renewcommand \thetable
15955   {\ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@table}
15956 \renewcommand \thechapter {\@arabic\c@chapter}
15957 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15958 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15959 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15960 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15961 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15962 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15963 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
15964 \else
15965 #2\relax
15966 \fi}

```

## 95 File footnote-xetex-bidi.def

```

15967 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15968 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15969 \newif\ifbidi@autofooterule
15970 \def\bidi@mpfootnoterule{\footnoterule}

```



```

15971 \newcounter{footdir@label}
15972 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15973 \newcommand*{\footdir@write}{%
15974   \stepcounter{footdir@label}%
15975   \zref@labelbyprops{\thefootdir@label}{abspage}%
15976 }
15977 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15978 \newtoks\footdir@toks
15979 \newcommand*{\footdir@debug}[1]{%
15980   \iffootdir@debug
15981     \typeout{[footdir] #1}%
15982   \fi
15983 }
15984 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
15985 %   \newcommand*{\footdir@LeftRightElse}{%
15986 %     \ltx@ifundefined{footdir@the\value{zabspage}}{%
15987 %       \footdir@debug{abspage \the\value{zabspage}: else}%
15988 %     \ltx@thirdofthree
15989 %   }{%
15990 %     \if\csname footdir@the\value{zabspage}\endcsname L%
15991 %       \footdir@debug{abspage \the\value{zabspage}: left}%
15992 %     \expandafter\ltx@firstofthree
15993 %   \else
15994 %     \footdir@debug{abspage \the\value{zabspage}: right}%
15995 %     \expandafter\ltx@secondofthree
15996 %   \fi
15997 % }%
15998 % }%
15999 %}{%
16000 \providecommand*{\c@zabspage}{\c@abspage}%
16001 \newcommand*{\footdir@LeftRightElse}{%
16002   \footdir@write
16003   \zifrefundefined{\thefootdir@label}{%
16004     \footdir@debug{abspage ??: else}%
16005     \ltx@thirdofthree
16006   }{%
16007     \edef\footdir@abspage{%
16008       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16009     }%
16010     \ltx@ifundefined{footdir@\footdir@abspage}{%
16011       \footdir@debug{\footdir@abspage: else}%
16012     \ltx@thirdofthree
16013   }{%
16014     \if\csname footdir@\footdir@abspage\endcsname L%
16015       \footdir@debug{\footdir@abspage: left}%
16016     \expandafter\ltx@firstofthree
16017   \else
16018     \footdir@debug{\footdir@abspage: right}%
16019     \expandafter\ltx@secondofthree
16020   \fi
16021   }%
16022 }%
16023 }%
16024 %}

```



```

16025 \newcommand*{\footdir@fntext}[1]{%
16026   \zifrefundefined{\thefootdir@label}{-%
16027   }-%
16028   \edef\footdir@name{%
16029     footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16030   }%
16031   \@ifundefined{\footdir@name}{-%
16032     \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16033   }{}%
16034 }%
16035 }
16036
16037 \newcommand*{\footdir@temp}[3]{%
16038   \@ifdefinable{#1}{-%
16039     \let#1#2%
16040     \renewcommand{#2}[1]{%
16041       \footdir@write
16042       \footdir@fntext{#3}%
16043       \stepcounter{footdir@label}%
16044       \footdir@fntext{#3}%
16045       \footdir@toks{##1}%
16046       \footdir@toks\expandafter{%
16047         \the\expandafter\footdir@toks
16048         \expandafter
16049         \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16050       }%
16051       \expandafter#1\expandafter{\the\footdir@toks}%
16052     }%
16053   }%
16054 }
16055
16056 \def\right@footnoterule{%
16057   \kern-3\p@
16058   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16059   \kern2.6\p@}
16060 \def\left@footnoterule{\kern-3\p@
16061   \hrule \@width .4\columnwidth \kern 2.6\p@}
16062 \def\textwidth@footnoterule{\kern-3\p@
16063   \hrule \@width \columnwidth \kern 2.6\p@}
16064 \def\leftfootnoterule{%
16065   \bidi@autofootnoterulefalse%
16066   \def\footnoterule{\left@footnoterule}}
16067 \let\LRfootnoterule=\leftfootnoterule
16068 \def\rightfootnoterule{%
16069   \bidi@autofootnoterulefalse%
16070   \def\footnoterule{\right@footnoterule}}
16071 \def\textwidthfootnoterule{%
16072   \bidi@autofootnoterulefalse%
16073   \def\footnoterule{\textwidth@footnoterule}}
16074
16075
16076
16077 \def\auto@footnoterule{%
16078   \footdir@LeftRightElse%

```



```

16079 \left@footnoterule%
16080 \right@footnoterule%
16081 \left@footnoterule%
16082 }
16083
16084
16085
16086 \def\autofootnoterule{%
16087 \bidi@autofootnoteruletrue%
16088 \def\footnoterule{\auto@footnoterule}%
16089 }
16090
16091 \newcommand*\SplitFootnoteRule{%
16092   \gdef\split@prev{0}
16093   \let\pagefootnoterule\footnoterule
16094   \let\mpfootnoterule\footnoterule
16095   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16096   \def\footnoterule{\relax
16097     \ifx \@listdepth\@mplistdepth
16098       \mpfootnoterule
16099     \else
16100       \ifnum\split@prev=\z@
16101         \pagefootnoterule
16102       \else
16103         \splitfootnoterule
16104       \fi
16105     \xdef\split@prev{\the\insertpenalties}%
16106   \fi
16107 }%
16108 }
16109
16110
16111
16112
16113 \def\RTLfootnote{\@ifnextchar [\@xRTLfootnote{\stepcounter\@mpfn
16114   \protected@xdef\@thefnmark{\thempfn}%
16115   \@footnotemark\@RTLfootnotetext}}
16116 \def\@xRTLfootnote[#1]{%
16117   \begingroup
16118     \csname c@\@mpfn\endcsname #1\relax
16119     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16120   \endgroup
16121   \@footnotemark\@RTLfootnotetext}
16122 \def\LTRfootnote{\@ifnextchar [\@xLTRfootnote{\stepcounter\@mpfn
16123   \protected@xdef\@thefnmark{\thempfn}%
16124   \@footnotemark\@LTRfootnotetext}}
16125 \def\@xLTRfootnote[#1]{%
16126   \begingroup
16127     \csname c@\@mpfn\endcsname #1\relax
16128     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16129   \endgroup
16130   \@footnotemark\@LTRfootnotetext}
16131
16132

```



```

16133 \def\setfootnoteRL{\@RTL@footnotetrue}
16134 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16135 \def\setfootnoteLR{\unsetfootnoteRL}
16136
16137 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16138 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16139 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16140
16141 \long\def\@footnotetext#1{\insert\footins{%
16142   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16143   \reset@font%
16144   \bidi@footnotetext@font% \reset@font\footnotesize
16145   \interlinepenalty\interfootnotelinepenalty
16146   \splittopskip\footnotesep
16147   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16148   \hsize\columnwidth \@parboxrestore
16149   \protected@edef\@currentlabel{%
16150     \csname p@footnote\endcsname\@thefnmark
16151   }%
16152   \color@begingroup
16153     \makefnfntext{%
16154       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16155   \color@endgroup}}%
16156
16157
16158 \long\def\@RTLfootnotetext#1{\insert\footins{%
16159   \@RTLtrue%
16160   \reset@font%
16161   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16162   \interlinepenalty\interfootnotelinepenalty
16163   \splittopskip\footnotesep
16164   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16165   \hsize\columnwidth \@parboxrestore
16166   \protected@edef\@currentlabel{%
16167     \csname p@footnote\endcsname\@thefnmark
16168   }%
16169   \color@begingroup
16170     \makefnfntext{%
16171       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16172   \color@endgroup}}%
16173
16174 \long\def\@LTRfootnotetext#1{\insert\footins{%
16175   \@RTLfalse%
16176   \reset@font%
16177   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16178   \interlinepenalty\interfootnotelinepenalty
16179   \splittopskip\footnotesep
16180   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16181   \hsize\columnwidth \@parboxrestore
16182   \protected@edef\@currentlabel{%
16183     \csname p@footnote\endcsname\@thefnmark
16184   }%
16185   \color@begingroup
16186     \makefnfntext{%

```



```

16187         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16188     \color@endgroup}}%
16189
16190 \AtBeginDocument{%
16191 \if@RTL@footnote
16192   \newcommand*{\bidi@footdir@footnote}{R}
16193 \else
16194   \newcommand*{\bidi@footdir@footnote}{L}
16195 \fi%
16196 }
16197
16198 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16199 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16200 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16201
16202 \long\def\@mpRTLfootnotetext#1{%
16203   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
16204   \global\setbox\@mpfootins\vbox{%
16205     \unvbox\@mpfootins
16206     \@RTLtrue
16207     \reset@font%
16208     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16209     \hsize\columnwidth
16210     \@parboxrestore
16211     \protected@edef\@currentlabel
16212       {\csname p@mpfootnote\endcsname\@thefnmark}%
16213     \color@begingroup
16214     \@makefntext{%
16215       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16216     \color@endgroup}}
16217 \long\def\@mpLTRfootnotetext#1{%
16218   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
16219   \global\setbox\@mpfootins\vbox{%
16220     \unvbox\@mpfootins
16221     \@RTLfalse
16222     \reset@font%
16223     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16224     \hsize\columnwidth
16225     \@parboxrestore
16226     \protected@edef\@currentlabel
16227       {\csname p@mpfootnote\endcsname\@thefnmark}%
16228     \color@begingroup
16229     \@makefntext{%
16230       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16231     \color@endgroup}}
16232 \long\def\@mpfootnotetext#1{%
16233   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnot
16234   \global\setbox\@mpfootins\vbox{%
16235     \unvbox\@mpfootins
16236     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
16237     \reset@font%
16238     \bidi@footnotetext@font% \reset@font\footnotesize
16239     \hsize\columnwidth
16240     \@parboxrestore

```



```

16241 \protected@edef\@currentlabel
16242     {\csname p@mpfootnote\endcsname\@thefnmark}%
16243 \color@begingroup
16244     \@makefnstrut{%
16245     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16246 \color@endgroup}}
16247 \def\@iiiminipage#1#2[#3]#4{%
16248 \leavevmode
16249 \@pboxswfalse
16250 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16251 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16252 \setlength\@tempdima{#4}%
16253 \def\@mpargs{#1}#2[#3]#4}%
16254 \setbox\@tempboxa\vbox\bgroup
16255     \color@begingroup
16256     \hsize\@tempdima
16257     \textwidth\hsize \columnwidth\hsize
16258     \@parboxrestore
16259     \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16260     \let\@footnotetext\@mpfootnotetext
16261     \let\@LTRfootnotetext\@mpLTRfootnotetext
16262     \let\@RTLfootnotetext\@mpRTLfootnotetext
16263     \let\@listdepth\@mplistdepth \@mplistdepth\z@
16264     \@minipagerestore
16265     \@setminipage}
16266 \def\endminipage{%
16267     \par
16268     \unskip
16269     \ifvoid\@mpfootins\else
16270     \vskip\skip\@mpfootins
16271     \normalcolor
16272     \bidi@mpfootnoterule
16273     \unvbox\@mpfootins
16274     \fi
16275     \@minipagefalse %% added 24 May 89
16276 \color@endgroup
16277 \egroup
16278 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16279 \def\LTRthanks#1{\footnotemark
16280 \protected@xdef\@thanks{\@thanks
16281 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16282 }
16283 \def\LTRfootnotetext{%
16284 \ifnextchar [\@xLTRfootnotenext
16285 {\protected@xdef\@thefnmark{\thempfn}%
16286 \@LTRfootnotetext}}
16287 \def\@xLTRfootnotenext[#1]{%
16288 \begingroup
16289 \csname c@\@mpfn\endcsname #1\relax
16290 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16291 \endgroup
16292 \@LTRfootnotetext}
16293 \def\RTLthanks#1{\footnotemark
16294 \protected@xdef\@thanks{\@thanks

```





```

16295     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16296 }
16297 \let\@thanks\@empty
16298 \def\RTLfootnotetext{%
16299     \@ifnextchar [\@xRTLfootnotenext
16300     {\protected@xdef\@thefnmark{\thempfn}%
16301     \@RTLfootnotetext}}
16302 \def\@xRTLfootnotenext[#1]{%
16303     \begingroup
16304     \csname c@\@mpfn\endcsname #1\relax
16305     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16306     \endgroup
16307     \@RTLfootnotetext}
16308 \leftfootnoterule

```

## 96 File footnotebackref-xetex-bidi.def

```

16309 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16310 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16311 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16312
16313 \renewcommand*\LTRfootnote{%
16314     \refstepcounter{BackrefHyperFootnoteCounter}%
16315     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16316     \label{\BackrefFootnoteTag}%
16317     \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16318
16319 \renewcommand*\RTLfootnote{%
16320     \refstepcounter{BackrefHyperFootnoteCounter}%
16321     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16322     \label{\BackrefFootnoteTag}%
16323     \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16324 \newcommand\Backref@HyperLTRFootnote[1]{%
16325     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16326
16327 \newcommand\Backref@HyperRTLFootnote[1]{%
16328     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16329
16330 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16331     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16332
16333 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16334     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16335
16336 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16337 \ifFootnoteBackref@numberlinked
16338 \renewcommand{\footfootmark}{%
16339     \ifdim\footmarkwidth < \z@
16340         \llap{\hb@xt@ -\footmarkwidth{%
16341             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}}%
16342         \hspace*{-\footmarkwidth}}%
16343     \else
16344         \ifdim\footmarkwidth = \z@
16345             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}}%

```



```

16346     \else
16347         \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16348     \fi
16349 \fi}
16350 \renewcommand{\LTRfootfootmark}{%
16351 \ifdim\footmarkwidth < \z@
16352     \llap{\hb@xt@ -\footmarkwidth{%
16353         \hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16354         \hspace*{-\footmarkwidth}}}%
16355 \else
16356     \ifdim\footmarkwidth = \z@
16357         {\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16358     \else
16359         \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16360     \fi
16361 \fi}
16362 \renewcommand{\RTLfootfootmark}{%
16363 \ifdim\footmarkwidth < \z@
16364     \llap{\hb@xt@ -\footmarkwidth{%
16365         \hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16366         \hspace*{-\footmarkwidth}}}%
16367 \else
16368     \ifdim\footmarkwidth = \z@
16369         {\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16370     \else
16371         \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16372     \fi
16373 \fi}
16374 \fi
16375 }

```

## 97 File framed-xetex-bidi.def

```

16376 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16377 \renewcommand\TitleBarFrame[3][\begingroup
16378 \ifx\delimiter#1\delimiter
16379     \let\TF@conlab\empty
16380 \else
16381     \def\TF@conlab{% continuation label
16382     \nointerlineskip
16383     \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
16384 \fi
16385 %\let\TF@savecolor\current@color
16386 \textcolor{TF@FrameColor}{%
16387 \CustomFBox
16388     {\TF@Title{#2}}{\TF@conlab}%
16389     \fbboxrule\fbboxrule\fbboxrule\fbboxrule
16390     %{\let\current@color\TF@savecolor\set@color #3}%
16391     {\normalcolor #3}%
16392 }\endgroup
16393 }
16394 \renewenvironment{titled-frame}[1]{%
16395 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
16396 \TitleBarFrame{\textbf{#1}}}%

```



```

16397 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
16398 \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1}}}%
16399 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
16400 \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1} (con
16401 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
16402 \TitleBarFrame{\textbf{#1} (cont)}}}%
16403 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16404 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16405 % could interfere with the width measurement.
16406 {\endMakeFramed}
16407 \chardef\FrameRestore=\catcode`\ $\ % for debug
16408 \catcode`\ $=\ $\ % (debug: insert space after backslash)
16409 \def\fb@put@frame#1#2{\relax
16410 \ifdim\pagegoal=\maxdimen \pagegoal\vsizelimit \fi
16411 | \message{===== Entering putframe =====^J
16412 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16413 \ifinner
16414 \fb@putboxa#1%
16415 \fb@afterframe
16416 \else
16417 \dimen@=\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16418 \ifdim\dimen@<2\baselineskip % Too little room on page
16419 | \message{Page has only \the\dimen@space room left; eject.}%
16420 \eject \fb@adjheight \fb@put@frame#1#2%
16421 \else % there's appreciable room left on the page
16422 \fb@sizeofframe#1%
16423 | \message{\string\pagetotal=\the\pagetotal,
16424 | \string\pagegoal=\the\pagegoal,
16425 | \string\pagestretch=\the\pagestretch,
16426 | \string\pageshrink=\the\pageshrink,
16427 | \string\fb@frh=\the\fb@frh. \space}
16428 | \message{^^JBox of size \the\ht@tempboxa\space}%
16429 \begingroup % temporarily set \dimen@ to be...
16430 \advance\dimen@.8\pageshrink % maximum space available on page
16431 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16432 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16433 \expandafter\endgroup
16434 % expand \ifdim, then restore \dimen@ to real room left on page
16435 \ifdim\dimen@>\ht@tempboxa % whole box does fit
16436 | \message{fits in \the\dimen@.}%
16437 % ToDo: Change this to use vsplit anyway to capture the marks
16438 % MERGE THIS WITH THE else CLAUSE!!!
16439 \fb@putboxa#1%
16440 \fb@afterframe
16441 \else % box must be split
16442 | \message{must be split to fit in \the\dimen@.}%
16443 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16444 \fb@sizeofframe#2%
16445 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16446 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16447 \kern137sp\kern-137sp\penalty-30
16448 \unvbox\@tempboxa}%
16449 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16450 \splittopskip\the\splittopskip}%$$$ 
```



```

16451     \boxmaxdepth\z@ \splittopskip\z@
16452 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
16453     % Split box here
16454     \setbox\tw@\vsplit\@tempboxa to\dimen@
16455 | \toks99\expandafter{\splitfirstmark}%
16456 | \toks98\expandafter{\splitbotmark}%
16457 | \message{Marks are: \the\toks99, \the\toks98. }%
16458     \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16459 | \message{Natural height of split box is \the\ht\tw@, leaving
16460 |     \the\ht\@tempboxa\space remainder. }%
16461     % If the split-to size > (\vsize-\topskip), then set box to full size.
16462     \begingroup
16463     \advance\dimen@\topskip
16464 | \expandafter\endgroup
16465     \ifdim\dimen@>\pagegoal
16466 |     \message{Frame is big -- Use up the full column. }%
16467     \dimen@ii\pagegoal
16468     \advance\dimen@ii -\topskip
16469 | \advance\dimen@ii \FrameHeightAdjust\relax
16470     \else % suspect this is implemented incorrectly:
16471     % If the split-to size > feasible room_on_page, rebox it smaller.
16472     \advance\dimen@.8\pageshrink
16473     \ifdim\ht\tw@>\dimen@
16474 |     \message{Box too tall; rebox it to \the\dimen@. }%
16475     \dimen@ii\dimen@
16476 | \else % use natural size
16477     \dimen@ii\ht\tw@
16478     \fi
16479     \fi
16480     % Re-box contents to desired size \dimen@ii
16481     \advance\dimen@ii -\fb@frh
16482     \setbox\tw@\vbox to\dimen@ii \bgroup
16483     % remove simulated frame and page flexibility:
16484     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16485     \unvbox\tw@ \unpenalty\unpenalty
16486 | \ifdim\lastkern=-137sp % whole box went to next page
16487 |     \message{box split at beginning! }%
16488     % need work here???
16489     \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16490     \fb@adjheight
16491     \fb@put@frame#1#2% INSERTED ???
16492 | \else % Got material split off at the head
16493     \egroup \fb@resto@set
16494 | \ifvoid\@tempboxa % it all fit after all
16495 |     \message{box split at end! }%
16496     \setbox\@tempboxa\box\tw@
16497     \fb@putboxa#1%
16498     \fb@afterframe
16499 | \else % it really did split
16500 | \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16501     \ifdim\wd\tw@>\z@
16502     \wd\tw@\wd\@tempboxa
16503     \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16504     \else

```



```

16505 |             \message{Zero width means likely blank. Don't frame it (guess)}%
16506 |             \box\tw@
16507 |             \fi
16508 |             \hrule \@height\z@ \@width\hsize
16509 |             \eject
16510 |             \fb@adjheight
16511 |             \fb@put@frame\LastFrameCommand\MidFrameCommand
16512 | \fi\fi\fi\fi\fi
16513 | }
16514 | \def\fb@putboxa#1{%
16515 | \ifvoid\@tempboxa
16516 | \PackageWarning{framed}{Boxa is void -- discard it. }%
16517 | \else
16518 | \message{Frame and place boxa. }%
16519 | %{\showoutput\showbox\@tempboxa}%
16520 | \centerline{#1{\hboxL{\box\@tempboxa}}}%
16521 | \fi
16522 | }
16523 | \catcode`\|=\FrameRestore
16524 | \def\FrameRestore{%
16525 | \let\if@nobreak\iffalse
16526 | \let\if@noskipsec\iffalse
16527 | \let\-\@dischyph
16528 | \let'\@acci\let'\@accii\let\=\@acciii
16529 | % \message{FrameRestore:
16530 | % \totalleftmargin=\the \totalleftmargin,
16531 | % \rightmargin=\the\rightmargin,
16532 | % \listdepth=\the\listdepth. }%
16533 | % Test if we are in a list (or list-like paragraph)
16534 | \ifnum \ifdim\totalleftmargin>\z@ 1\fi
16535 | \ifdim\rightmargin>\z@ 1\fi
16536 | \ifnum\listdepth>\z@ 1\fi 0>\z@
16537 | % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
16538 | % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16539 | % \labelwidth=\the\labelwidth. }%
16540 | \@setminipage % snug fit around the item
16541 | % Now try to propagate changes of width from \hsize to list parameters.
16542 | % This is deficient, but a more advanced way to indicate modification to text
16543 | % dimensions is not (yet) provided; in particular, no separate left/right
16544 | % adjustment.
16545 | \advance\linewidth-\columnwidth \advance\linewidth\hsize
16546 | \parshape\@ne \@totalleftmargin \linewidth
16547 | \else % Not in list
16548 | \linewidth=\hsize
16549 | %\message{No list, set \string\linewidth=\the\hsize. }%
16550 | \fi
16551 | \sloppy
16552 | }

```

## 98 File `ftnright-xetex-bidi.def`

```

16553 | \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16554 |
16555 | \def\prepare@bidi@copyins{%

```



```

16556 \global\ bidi@rcol@copyinsskip\skip\@bidi@copyins@
16557 \global\skip\@bidi@copyins@\z@
16558 \global\count\@bidi@copyins@\z@
16559 \global\dimen\@bidi@copyins@\textheight}
16560
16561 \newskip\ bidi@rcol@copyinsskip
16562
16563 \def\LTR@outputdblcol{%
16564 \if@firstcolumn
16565 \global\@firstcolumnfalse
16566 \global\setbox\@leftcolumn\copy\@outputbox
16567 \global\count\footins\@m
16568 \global\skip\footins\rcol@footinsskip
16569 \global\count\@bidi@copyins@\@m
16570 \global\skip\@bidi@copyins@\ bidi@rcol@copyinsskip
16571 \splitmaxdepth\maxdimen
16572 \vbadness\maxdimen
16573 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16574 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16575 \toks@\expandafter{\topmark}%
16576 \xdef\@firstcoltopmark{\the\toks@}%
16577 \toks@\expandafter{\splitfirstmark}%
16578 \xdef\@firstcolfirstmark{\the\toks@}%
16579 \ifx\@firstcolfirstmark\@empty
16580 \global\let\@setmarks\relax
16581 \else
16582 \gdef\@setmarks{%
16583 \let\firstmark\@firstcolfirstmark
16584 \let\topmark\@firstcoltopmark}%
16585 \fi
16586 \else
16587 \preparefootins
16588 \prepare@bidi@copyins
16589 \global\@firstcolumntrue
16590 \setbox\@outputbox\vbox{%
16591 \hb@xt@\textwidth{%
16592 \hb@xt@\columnwidth{%
16593 \bidi@firstcolumn@status@write%
16594 \box\@leftcolumn \hss}%
16595 \hfil
16596 {\normalcolor\vrule \@width\columnseprule}%
16597 \hfil
16598 \hb@xt@\columnwidth{%
16599 \bidi@lastcolumn@status@write%
16600 \box\@outputbox \hss}}}%
16601 \@combinedblfloats
16602 \@setmarks
16603 \@outputpage
16604 \begingroup
16605 \@dblfloatplacement
16606 \@startdblcolumn
16607 \@whilesw\if@fcolmade \fi{\@outputpage
16608 \@startdblcolumn}%
16609 \endgroup

```



```

16610 \fi}%
16611
16612 \def\RTL@outputdblcol{%
16613 \if@firstcolumn
16614 \global\@firstcolumnfalse
16615 \global\setbox\@leftcolumn\copy\@outputbox
16616 \global\count\footins\@m
16617 \global\skip\footins\rcol@footinsskip
16618 \global\count\@bidi@copyins@\@m
16619 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
16620 \splitmaxdepth\maxdimen
16621 \vbadness\maxdimen
16622 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16623 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16624 \toks@\expandafter{\topmark}%
16625 \xdef\@firstcoltopmark{\the\toks@}%
16626 \toks@\expandafter{\splitfirstmark}%
16627 \xdef\@firstcolfirstmark{\the\toks@}%
16628 \ifx\@firstcolfirstmark\@empty
16629 \global\let\@setmarks\relax
16630 \else
16631 \gdef\@setmarks{%
16632 \let\firstmark\@firstcolfirstmark
16633 \let\topmark\@firstcoltopmark}%
16634 \fi
16635 \else
16636 \preparefootins
16637 \prepare@bidi@copyins
16638 \global\@firstcolumntrue
16639 \setbox\@outputbox\vbox{%
16640 \hb@xt@\textwidth{%
16641 \hskip \columnwidth
16642 \hfil
16643 {\normalcolor\vrule \@width\columnseprule}%
16644 \hfil
16645 \hb@xt@\columnwidth{%
16646 \bidi@firstcolumn@status@write%
16647 \box\@leftcolumn \hss}%
16648 \hskip -\textwidth
16649 \hb@xt@\columnwidth{%
16650 \bidi@lastcolumn@status@write%
16651 \box\@outputbox \hss}%
16652 \hskip \columnsep
16653 \hskip \columnwidth }}%
16654 \@combinedblfloats
16655 \setmarks
16656 \outputpage
16657 \begingroup
16658 \@dblfloatplacement
16659 \@startdblcolumn
16660 \@whilesw\if@colmade \fi{\@outputpage
16661 \@startdblcolumn}%
16662 \endgroup
16663 \fi}%

```



```

16664
16665 \def\@startcolumn{%
16666   \ifx\@deferlist\@empty
16667     \global\@fcolmadefalse
16668     \global\@colroom\@colht
16669   \else
16670     \ifvoid\footins\else
16671       \ftn@amount\ht\footins
16672       \advance\ftn@amount\dp\footins
16673       \advance\ftn@amount\skip\footins
16674     \fi
16675     \ifvoid\@bidi@copyins\else
16676       \bidi@copyins@amount\ht\@bidi@copyins@
16677       \advance\bidi@copyins@amount\dp\@bidi@copyins@
16678       \advance\bidi@copyins@amount\skip\@bidi@copyins@
16679     \fi
16680     \global\advance\@colht-\ftn@amount
16681     \global\advance\@colht-\bidi@copyins@amount
16682     \global\@colroom\@colht
16683     \@xstartcol
16684     \global\advance\@colht\ftn@amount
16685     \global\advance\@colroom\ftn@amount
16686     \global\advance\@colht\bidi@copyins@amount
16687     \global\advance\@colroom\bidi@copyins@amount
16688   \fi
16689   \if@fcolmade
16690     \setbox\@cclv\box\@outputbox
16691     \@makecol
16692   \else
16693     \ifvoid\footins\else
16694       \insert\footins{\unvbox\footins}\fi
16695     \ifvoid\@bidi@copyins\else
16696       \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
16697   \fi}
16698
16699 \newdimen\bidi@copyins@amount
16700
16701 \def\@makecol{\if@firstcolumn
16702   \setbox\@outputbox\box\@cclv
16703   \if@twocolumn \else
16704     \ifvoid\footins \else
16705       \@latexerr{ftnright package
16706         used in one-column mode}%
16707       {The ftnright package was designed to
16708         work with LaTeX's standard^^Jtwocolumn
16709         option. It does *not* work with the
16710         multicol package.^^JSo please specify
16711         `twocolumn' in the
16712         \noexpand\documentclass command.}%
16713       \shipout\box\footins \fi
16714     \ifvoid\@bidi@copyins@ \else
16715       \@latexerr{ftnright package
16716         used in one-column mode}%
16717     {The ftnright package was designed to

```





```

16718     work with LaTeX's standard^^Jtwocolumn
16719     option. It does *not* work with the
16720     multicol package.^^JSo please specify
16721     `twocolumn' in the
16722     \noexpand\documentclass command.}%
16723     \shipout\box\@bidi@copyins@ \fi\fi
16724 \ifnum\insertpenalties>\z@
16725     \@latexerr{ftnright package
16726         scrambled footnotes}%
16727     {There is too much footnote material in
16728     the first column and ftnright^^Jis
16729     unable to cope with this.^^JYou need
16730     to reduce the amount to get a properly
16731     formatted page.}%
16732 \fi
16733 \else
16734 \ifvoid\footins
16735     \ifvoid\@bidi@copyins@
16736     \setbox\@outputbox\box\@cclv
16737     \else
16738     \setbox\@outputbox\vbox
16739     {\ifvoid\@cclv \else
16740     \unvbox\@cclv
16741     \vskip \skip\@bidi@copyins@
16742     \fi
16743     \color@begingroup
16744     \normalcolor
16745     \unvbox \@bidi@copyins@
16746     \color@endgroup}%
16747 \fi
16748 \else
16749     \setbox\@outputbox\vbox
16750     {\ifvoid\@cclv \else
16751     \unvbox\@cclv
16752     \vskip\skip\footins\fi
16753     \color@begingroup
16754     \normalcolor
16755     \footnoterule\unvbox\footins
16756     \color@endgroup
16757     \ifvoid\@bidi@copyins@
16758     \else
16759     \vskip \skip\@bidi@copyins@
16760     \color@begingroup
16761     \normalcolor
16762     \unvbox \@bidi@copyins@
16763     \color@endgroup
16764     \fi
16765     }%
16766 \fi
16767 \fi
16768 \xdef\@freelist{\@freelist\@midlist}%
16769 \global \let \@midlist \@empty
16770 \@combinefloats
16771 \ifvbox\@kludgeins

```



```

16772 \makespecialcolbox
16773 \else
16774 \setbox\outputbox\vbox to\colht
16775 {\boxmaxdepth\maxdepth
16776 \@texttop
16777 \@tempdima\dp\outputbox
16778 \unvbox\outputbox
16779 \vskip-\@tempdima
16780 \@textbottom}%
16781 \fi
16782 \global\maxdepth\@maxdepth}
16783
16784 \let\leftfootnoterule\@empty
16785 \let\rightfootnoterule\@empty
16786 \let\textwidthfootnoterule\@empty
16787 \let\autofootnoterule\@empty
16788 \let\footnoterule\@empty
16789 \long\def\@makefnmark#1{\parindent 1em
16790 \noindent\hbox to 2em{}}%
16791 \llap{\@thefnmark\hbox{.}\,\,}#1}
16792
16793 \setlength{\skip\@bidi@copyins@}
16794 {10pt plus 5pt minus 3pt}
16795 \AtBeginDocument{\prepare@bidi@copyins}

```

## 99 File graphicx-xetex-bidi.def

```

16796 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16797 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16798 \Grot@setangle{#1}%
16799 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16800 \Grot@x\z@
16801 \Grot@y\z@
16802 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16803 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16804 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16805 \Grot@x\width \divide\Grot@x\tw@
16806 \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16807 \setkeys{Grot}{#1}%
16808 \setbox\z@\box\@tempboxa
16809 \Grot@setangle{#2}%
16810 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16811 \@end@tempboxa}
16812 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16813 \leavevmode
16814 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16815 \setbox\z@\hbox{#3}%
16816 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16817 \ifdim#2p<\z@
16818 \ht\tw@-#2\dp\z@
16819 \dp\tw@-#2\ht\z@
16820 \else
16821 \ht\tw@#2\ht\z@
16822 \dp\tw@#2\dp\z@

```



```

16823 \fi
16824 \ifdim#1\p@<\z@
16825 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%
16826 \else
16827 \wd\tw@#1\wd\z@
16828 \box\tw@
16829 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16830 \def\Gin@iii[#1,#2][#3,#4]#5{%
16831 \begingroup
16832 \ifmmode\else\if@RTL\beginL\fi\fi
16833 \Gin@bboxtrue
16834 \Gin@defaultbp\Gin@llx{#1}%
16835 \Gin@defaultbp\Gin@lly{#2}%
16836 \Gin@defaultbp\Gin@urx{#3}%
16837 \Gin@defaultbp\Gin@ury{#4}%
16838 \Gin@include@graphics{#5}%
16839 \ifmmode\else\if@RTL\endL\fi\fi
16840 \endgroup}
16841 \def\Gin@ii[#1]#2{%
16842 \def\@tempa{[]}\def\@tempb{#2}%
16843 \ifx\@tempa\@tempb
16844 \def\@tempa{\Gin@iii[#1] []}%
16845 \expandafter\@tempa
16846 \else
16847 \begingroup
16848 \ifmmode\else\if@RTL\beginL\fi\fi
16849 \@tempswafalse
16850 \toks@{\Gin@include@graphics{#2}}%
16851 \setkeys{Gin}{#1}%
16852 \Gin@esetsize
16853 \the\toks@
16854 \ifmmode\else\if@RTL\endL\fi\fi
16855 \endgroup
16856 \fi}
16857 \def\reflectbox{\bidiGscale@box-1[1]}
16858 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi}
16859 \leavevmode
16860 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16861 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16862 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16863 \ifdim#2\p@<\z@
16864 \ht\tw@-#2\dp\z@
16865 \dp\tw@-#2\ht\z@
16866 \else
16867 \ht\tw@#2\ht\z@
16868 \dp\tw@#2\dp\z@
16869 \fi
16870 \ifdim#1\p@<\z@
16871 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%
16872 \else
16873 \wd\tw@#1\wd\z@
16874 \box\tw@
16875 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16876 \def\scalebox#1{%

```



```

16877 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
16878 \def\resizebox{%
16879 \leavevmode
16880 \@ifstar{\bidiGscale@box\totalheight}{\bidiGscale@box\height}}
16881 \def\bidiGscale@box#1#2#3{%
16882 \let\@tempa\Gin@exclamation
16883 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16884 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16885 \ifx\@tempb\@tempa
16886 \ifx\@tempc\@tempa
16887 \toks@{\mbox}%
16888 \else
16889 \toks@{\bidiGscale@box@dd{#3}#1}%
16890 \fi
16891 \else
16892 \ifx\@tempc\@tempa
16893 \toks@{\bidiGscale@box@dd{#2}\width}%
16894 \else
16895 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
16896 \fi
16897 \fi
16898 \the\toks@}
16899 \long\def\bidiGscale@box@dd#1#2#3{%
16900 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16901 \setlength\@tempdima{#1}%
16902 \setlength\@tempdimb{#2}%
16903 \Gscale@div\@tempa\@tempdima\@tempdimb
16904 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16905 \@end@tempboxa}
16906 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
16907 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16908 \setlength\@tempdima{#1}%
16909 \setlength\@tempdimb{#2}%
16910 \Gscale@div\@tempa\@tempdima\@tempdimb
16911 \setlength\@tempdima{#3}%
16912 \setlength\@tempdimb{#4}%
16913 \Gscale@div\@tempb\@tempdima\@tempdimb
16914 \ifGin@iso
16915 \ifdim\@tempa\p>\@tempb\p@
16916 \let\@tempa\@tempb
16917 \else
16918 \let\@tempb\@tempa
16919 \fi
16920 \fi
16921 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16922 \@end@tempboxa}

```

## 100 File geometry-xetex-bidi.def

```

16923 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16924 \renewcommand*\Gm@vrules@mpi{%
16925 \if@RTLmain%
16926 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep}
16927 \llap{\Gm@vrule}\ignorespaces

```



```

16928         \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16929         \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16930     \else%
16931     \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
16932     \hskip \textwidth\Gm@vrule\hskip \marginparsep
16933     \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16934 \renewcommand*{\Gm@vrules@mpii}{%
16935 \if@RTLmain%
16936     \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
16937     \hskip \textwidth\Gm@vrule\hskip \marginparsep
16938     \llap{\Gm@vrule}\hfil\Gm@vrule}%
16939 \else%
16940     \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16941     \llap{\Gm@vrule}\ignorespaces
16942     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16943     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16944 \bidi@patchcmd{\Gm@pageframes}{%
16945     \ifodd\count\z@
16946     \let\@themargin\oddsidemargin
16947     \else
16948     \let\@themargin\evensidemargin
16949     \fi
16950 }{%
16951     \ifodd\count\z@
16952     \if@RTLmain
16953     \let\@themargin\evensidemargin
16954     \else
16955     \let\@themargin\oddsidemargin
16956     \fi
16957     \else
16958     \if@RTLmain
16959     \let\@themargin\oddsidemargin
16960     \else
16961     \let\@themargin\evensidemargin
16962     \fi
16963     \fi
16964 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

16965 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16966 \def\do@@hvFloat[#1]#2#3{%
16967 \def\hv@shortCap{#1}
16968 \def\hv@longCap{#2}
16969 \def\hv@label{#3}
16970 %\newcommand*{\hvFloat}[5][ ]{%
16971 % [#1]: keyvalues
16972 % #2: type figure | table | ...
16973 % #3: float contents
16974 % [#4]: short caption
16975 % #5: caption
16976 % #6: label
16977 % \setDefaults%
16978 % \def\@tempa{#1}%

```



```

16979 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16980 \def\@tempa{90}%
16981 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
16982 \else \setlength{\hvMaxCapWidth}{\linewidth}
16983 \fi
16984 %
16985 % First we save the object in \hvObjectBox
16986 %
16987 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
16988 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
16989 \else
16990 \savebox{\hvObjectBox}{%
16991 \rotatebox{\hvSet@objectAngle}{%
16992 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
16993 \fi
16994 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
16995 %
16996 % Now we save the caption with its defined \hvCapWidth
16997 %
16998 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
16999 \else
17000 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
17001 \else
17002 \setlength{\hvCapWidth}{\hvObjectWidth}
17003 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17004 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17005 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
17006 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17007 \else
17008 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17009 \fi
17010 \fi
17011 \fi
17012 %
17013 % now we have the object and the caption with the right
17014 % rotated angles saved in boxes
17015 %
17016 \def\fps@figure{\hvSet@floatPos}
17017 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17018 \else \begin{\hv@floatType}% Start the floating environment
17019 \fi%
17020 \saveCaptionSkip% we put this space ourselves
17021 \ifx\hvSet@capAngle\hv@Width % need rotation?
17022 \sbox{\hvCaptionBox}{%
17023 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17024 \ifhv@nonFloat%
17025 \ifhv@onlyText#2%
17026 \else%
17027 \ifx\hv@floatType\hv@figure
17028 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17029 \else
17030 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17031 \fi
17032 \fi

```



```

17033 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17034 \fi%
17035 \label{#3}%
17036 \end{minipage}%
17037 }%
17038 \else%
17039 \sbox{\hvCaptionBox}{%
17040 \rotatebox{\hvSet@capAngle}{%
17041 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17042 \ifhv@nonFloat%
17043 \ifhv@onlyText#2%
17044 \else%
17045 \ifx\hv@floatType\hv@figure
17046 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
17047 \else
17048 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
17049 \fi
17050 \fi
17051 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17052 \fi%
17053 \label{#3}%
17054 \end{minipage}%
17055 }%
17056 }%
17057 \fi%
17058 %%
17059 \restoreCaptionSkip% save old values
17060 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17061 \else%
17062 \ifx\hvSet@objectPos\hv@Center
17063 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17064 \fi%
17065 \fi%
17066 %
17067 % to rotate object and caption together, we save all in another box
17068 % the caption comes first, if its on the left or the top
17069 %
17070 \savebox{\@tempboxa}{%
17071 \ifx\hvSet@capPos\hv@Left % caption on left side
17072 \if@RTL%
17073 \ifx\hvSet@capVPos\hv@Center%
17074 \ifhv@fbox
17075 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17076 \else
17077 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17078 \fi%
17079 \hspace{\hvSet@floatCapSep pt}%
17080 \ifhv@fbox
17081 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17082 \else
17083 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17084 \fi%
17085 \else%
17086 \ifx\hvSet@capVPos\hv@Top

```



```

17087     \ifhv@fbox
17088     \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17089     \else
17090     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17091     \fi%
17092     \hspace{\hvSet@floatCapSep pt}%
17093     \ifhv@fbox
17094     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17095     \else
17096     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17097     \fi
17098     \else
17099     \ifhv@fbox
17100     \fbox{\usebox{\hvObjectBox}}%
17101     \else
17102     \usebox{\hvObjectBox}%
17103     \fi
17104     \hspace{\hvSet@floatCapSep pt}%
17105     \ifhv@fbox
17106     \fbox{\usebox{\hvCaptionBox}}%
17107     \else
17108     \usebox{\hvCaptionBox}%
17109     \fi%
17110     \fi%
17111 \fi%
17112 \else% not RTL
17113     \ifx\hvSet@capVPos\hv@Center%
17114     \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17115     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17116     \fi%
17117     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17118     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17119     \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17120     \fi%
17121 \else%
17122     \ifx\hvSet@capVPos\hv@Top % caption at top
17123     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17124     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17125     \fi
17126     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17127     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17128     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17129     \fi%
17130 \else% caption on bottom
17131     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17132     \else\usebox{\hvCaptionBox}
17133     \fi%
17134     \hspace{\hvSet@floatCapSep pt}%
17135     \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17136     \else     \usebox{\hvObjectBox}
17137     \fi%
17138     \fi%
17139 \fi% end of RTL
17140 \fi%

```





```

17141 \else
17142   \ifx\hvSet@capPos\hv@Top
17143     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17144       \begin{minipage}{\wd\hvCaptionBox}
17145     \else
17146       \begin{minipage}{\wd\hvObjectBox}
17147     \fi
17148     \centering
17149     \ifhv@fbox
17150       \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17151     \fbox{\usebox{\hvObjectBox}}
17152   \else
17153     \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17154     \usebox{\hvObjectBox}
17155   \fi%
17156   \end{minipage}
17157 \else
17158   \ifx\hvSet@capPos\hv@Bottom
17159     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17160       \begin{minipage}{\wd\hvCaptionBox}
17161     \else
17162       \begin{minipage}{\wd\hvObjectBox}
17163     \fi
17164     \centering
17165     \ifhv@fbox
17166       \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17167     \fbox{\usebox{\hvCaptionBox}}
17168   \else
17169     \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17170     \usebox{\hvCaptionBox}
17171   \fi%
17172   \end{minipage}
17173   \else% the last option: put the caption on the right
17174 \if@RTL%
17175   \ifx\hvSet@capVPos\hv@Center%
17176     \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17177   \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17178   \fi%
17179   \hspace{\hvSet@floatCapSep pt}% capfloatsep
17180   \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17181   \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17182   \fi%
17183 \else%
17184   \ifx\hvSet@capVPos\hv@Top % caption at top
17185     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17186   \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17187   \fi
17188   \hspace{\hvSet@floatCapSep pt}% capfloatsep
17189   \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17190   \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17191   \fi%
17192 \else% caption on bottom
17193   \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17194   \else\usebox{\hvCaptionBox}

```



```

17195     \fi%
17196     \hspace{\hvSet@floatCapSep pt}%
17197     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17198     \else     \usebox{\hvObjectBox}
17199     \fi%
17200   \fi%
17201 \fi%
17202 \else% not RTL
17203     \ifx\hvSet@capVPos\hv@Center%
17204     \ifhv@fbox
17205     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17206     \else
17207     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17208     \fi%
17209     \hspace{\hvSet@floatCapSep pt}%
17210     \ifhv@fbox
17211     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17212     \else
17213     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17214     \fi%
17215 \else%
17216     \ifx\hvSet@capVPos\hv@Top
17217     \ifhv@fbox
17218     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17219     \else
17220     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17221     \fi%
17222     \hspace{\hvSet@floatCapSep pt}%
17223     \ifhv@fbox
17224     \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17225     \else
17226     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17227     \fi
17228     \else
17229     \ifhv@fbox
17230     \fbbox{\usebox{\hvObjectBox}}%
17231     \else
17232     \usebox{\hvObjectBox}%
17233     \fi
17234     \hspace{\hvSet@floatCapSep pt}%
17235     \ifhv@fbox
17236     \fbbox{\usebox{\hvCaptionBox}}%
17237     \else
17238     \usebox{\hvCaptionBox}%
17239     \fi%
17240   \fi%
17241 \fi
17242 \fi% end of RTL
17243   \fi
17244   \fi
17245   \fi
17246 }% End savebox Object and caption
17247 %
17248 % now we rotate the object and caption, if needed

```



```

17249 %
17250 \ifx\hvSet@rotAngle\hv@Zero
17251 \usebox{\@tempboxa}
17252 \else
17253 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17254 \fi
17255 \ifhv@nonFloat
17256 \ifx\hvSet@objectPos\hv@Center
17257 \ifhv@nonFloat
17258 \hspace{\fill}
17259 \fi
17260 \fi
17261 \endgroup% End the nonfloat part
17262 \else
17263 \end{\hv@floatType}% End the floating environment
17264 \fi
17265 }

```

## 102 File hyperref-xetex-bidi.def

```

17266 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17267 \AtBeginDocument{%
17268 \def\contentsline#1#2#3#4{%
17269 \ifx\#4\%
17270 \csname l@#1\endcsname{#2}{#3}%
17271 \else
17272 \ifcase\Hy@linktoc % none
17273 \csname l@#1\endcsname{#2}{#3}%
17274 \or % section
17275 \csname l@#1\endcsname{%
17276 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17277 }{#3}%
17278 \or % page
17279 \csname l@#1\endcsname{#2}{#3}%
17280 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17281 }%
17282 \else % all
17283 \csname l@#1\endcsname{%
17284 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17285 }{#3}%
17286 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17287 }%
17288 \fi
17289 \fi
17290 }
17291 \ifHy@hyperfootnotes
17292 \let\H@@footnotetext\@footnotetext
17293 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17294 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17295 \def\@xfootnotenext[#1]{%
17296 \begingroup
17297 \csname c@\@mpfn\endcsname #1\relax
17298 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17299 \endgroup

```



```

17300 \ifx\@footnotetext\@mpfootnotetext
17301 \expandafter\H@\mpfootnotetext
17302 \else
17303 \expandafter\H@\footnotetext
17304 \fi
17305 }%
17306 \def\@xRTLfootnotenext[#1]{%
17307 \begingroup
17308 \csname c@\mpfn\endcsname #1\relax
17309 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17310 \endgroup
17311 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17312 \expandafter\HRTL@\mpRTLfootnotetext
17313 \else
17314 \expandafter\HRTL@\RTLfootnotetext
17315 \fi
17316 }%
17317 \def\@xLTRfootnotenext[#1]{%
17318 \begingroup
17319 \csname c@\mpfn\endcsname #1\relax
17320 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17321 \endgroup
17322 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17323 \expandafter\HLTR@\mpLTRfootnotetext
17324 \else
17325 \expandafter\HLTR@\LTRfootnotetext
17326 \fi
17327 }%
17328 \def\@xfootnotemark[#1]{%
17329 \begingroup
17330 \c@footnote #1\relax
17331 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
17332 \endgroup
17333 \H@\@footnotemark
17334 }%
17335 \let\H@\mpfootnotetext\@mpfootnotetext
17336 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
17337 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
17338 \long\def\@mpfootnotetext#1{%
17339 \H@\mpfootnotetext{%
17340 \ifHy@nesting
17341 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17342 \else
17343 \Hy@raisedlink{%
17344 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17345 }#1%
17346 \fi
17347 }%
17348 }%
17349 \long\def\@mpRTLfootnotetext#1{%
17350 \HRTL@\mpRTLfootnotetext{%
17351 \ifHy@nesting
17352 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17353 \else

```



```

17354     \Hy@raisedlink{%
17355         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17356     }#1%
17357     \fi
17358 }%
17359 }%
17360 \long\def\@mplTRfootnotetext#1{%
17361 \HLTR@mplTRfootnotetext{%
17362     \ifHy@nesting
17363         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17364     \else
17365         \Hy@raisedlink{%
17366             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17367         }#1%
17368         \fi
17369     }%
17370 }%
17371 \long\def\@footnotetext#1{%
17372 \H@@footnotetext{%
17373     \ifHy@nesting
17374         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17375     \else
17376         \Hy@raisedlink{%
17377             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17378         }%
17379         \let\@currentHlabel\Hy@footnote@currentHlabel
17380         \let\@currentHref\Hy@footnote@currentHref
17381         \let\@currentlabelname\@empty
17382         #1%
17383     \fi
17384 }%
17385 }%
17386 \long\def\@RTLfootnotetext#1{%
17387 \HRTL@RTLfootnotetext{%
17388     \ifHy@nesting
17389         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17390     \else
17391         \Hy@raisedlink{%
17392             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17393         }%
17394         \let\@currentHlabel\Hy@footnote@currentHlabel
17395         \let\@currentHref\Hy@footnote@currentHref
17396         \let\@currentlabelname\@empty
17397         #1%
17398     \fi
17399 }%
17400 }%
17401 \long\def\@LTRfootnotetext#1{%
17402 \HLTR@LTRfootnotetext{%
17403     \ifHy@nesting
17404         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17405     \else
17406         \Hy@raisedlink{%
17407             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%

```



```

17408     }%
17409     \let\@currentHlabel\Hy@footnote@currentHlabel
17410     \let\@currentHref\Hy@footnote@currentHref
17411     \let\@currentlabelname\@empty
17412     #1%
17413     \fi
17414   }%
17415 }%
17416 \ApplyPatchCodeToPackage{tabularx}{%
17417 \let\HyOrg@TX@endtabularx\TX@endtabularx
17418 \def\Hy@tabularx@hook{%
17419   \let\@footnotetext\H@@footnotetext
17420   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17421   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17422   \let\@footnotemark\H@@footnotemark
17423   \let\@mpfootnotetext\H@@mpfootnotetext
17424   \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
17425   \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
17426 }%
17427 \begingroup
17428 \toks@\expandafter{\TX@endtabularx}%
17429 \xdef\Hy@gtemp{%
17430   \noexpand\Hy@tabularx@hook
17431   \the\toks@
17432 }%
17433 \endgroup
17434 \let\TX@endtabularx\Hy@gtemp
17435 }%
17436 \ApplyPatchCodeToPackage{longtable}{%
17437 \CheckCommand{\LT@p@LTRftntext}[1]{%
17438   \edef\@tempa{%
17439     \the\LT@p@ftn
17440     \noexpand\LTRfootnotetext[\the\c@footnote]}%
17441   }%
17442   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17443 }%
17444 \long\def\LT@p@LTRftntext#1{%
17445   \edef\@tempa{%
17446     \the\LT@p@ftn
17447     \begingroup
17448       \noexpand\c@footnote=\the\c@footnote\relax
17449       \noexpand\protected@xdef\noexpand\@thefnmark{%
17450         \noexpand\thempfn
17451       }%
17452       \noexpand\Hy@LT@LTRfootnotetext{%
17453         \Hy@footnote@currentHref
17454       }%
17455     }%
17456     \global\LT@p@ftn\expandafter{%
17457       \@tempa{#1}%
17458     }%
17459   }%
17460 }%
17461 \long\def\Hy@LT@LTRfootnotetext#1#2{%

```



```

17462 \HLTR@LTRfootnotetext{%
17463   \ifHy@nesting
17464     \hyper@@anchor{#1}{#2}%
17465   \else
17466     \Hy@raisedlink{%
17467       \hyper@@anchor{#1}{\relax}%
17468     }%
17469     \def\@currentHref{#1}%
17470     \let\@currentlabelname\@empty
17471     #2%
17472   \fi
17473 }%
17474 }%
17475 \CheckCommand{\LT@p@RTLftntext}[1]{%
17476   \edef\@tempa{%
17477     \the\LT@p@ftn
17478     \noexpand\RTLfootnotetext[\the\c@footnote]%
17479   }%
17480   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17481 }%
17482 \long\def\LT@p@RTLftntext#1{%
17483   \edef\@tempa{%
17484     \the\LT@p@ftn
17485     \begingroup
17486       \noexpand\c@footnote=\the\c@footnote\relax
17487       \noexpand\protected@xdef\noexpand\@thefnmark{%
17488         \noexpand\thempfn
17489       }%
17490       \noexpand\Hy@LT@RTLfootnotetext{%
17491         \Hy@footnote@currentHref
17492       }%
17493     }%
17494     \global\LT@p@ftn\expandafter{%
17495       \@tempa{#1}%
17496     }%
17497   }%
17498 }%
17499 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17500 \HRTL@RTLfootnotetext{%
17501   \ifHy@nesting
17502     \hyper@@anchor{#1}{#2}%
17503   \else
17504     \Hy@raisedlink{%
17505       \hyper@@anchor{#1}{\relax}%
17506     }%
17507     \def\@currentHref{#1}%
17508     \let\@currentlabelname\@empty
17509     #2%
17510   \fi
17511 }%
17512 }%
17513 }%
17514 \ApplyPatchCodeToPackage{bidipoem}{%
17515 \long\def\bidipoem@p@ftntext#1{%

```



```

17516 \edef\@tempx{%
17517 \the\bidipoem@p@ftn
17518 \begingroup
17519 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17520 \noexpand\protected@xdef\noexpand\@thefnmark{%
17521 \noexpand\thempfn
17522 }%
17523 \noexpand\Hy@bidipoem@footnotetext{%
17524 \Hy@footnote@currentHref
17525 }%
17526 }%
17527 \global\bidipoem@p@ftn\expandafter{%
17528 \@tempx{#1}%
17529 \endgroup
17530 }%
17531 }%
17532 \long\def\Hy@bidipoem@footnotetext#1#2{%
17533 \H@@footnotetext{%
17534 \ifHy@nesting
17535 \hyper@@anchor{#1}{#2}%
17536 \else
17537 \Hy@raisedlink{%
17538 \hyper@@anchor{#1}{\relax}%
17539 }%
17540 \def\@currentHref{#1}%
17541 \let\@currentlabelname\@empty
17542 #2%
17543 \fi
17544 }%
17545 }%
17546 \long\def\bidipoem@p@LTRftntext#1{%
17547 \edef\@tempxi{%
17548 \the\bidipoem@p@ftn
17549 \begingroup
17550 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17551 \noexpand\protected@xdef\noexpand\@thefnmark{%
17552 \noexpand\thempfn
17553 }%
17554 \noexpand\Hy@bidipoem@LTRfootnotetext{%
17555 \Hy@footnote@currentHref
17556 }%
17557 }%
17558 \global\bidipoem@p@ftn\expandafter{%
17559 \@tempxi{#1}%
17560 \endgroup
17561 }%
17562 }%
17563 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17564 \HLTR@@LTRfootnotetext{%
17565 \ifHy@nesting
17566 \hyper@@anchor{#1}{#2}%
17567 \else
17568 \Hy@raisedlink{%
17569 \hyper@@anchor{#1}{\relax}%

```





```

17570     }%
17571     \def\@currentHref{#1}%
17572     \let\@currentlabelname\@empty
17573     #2%
17574     \fi
17575   }%
17576 }%
17577   \long\def\bidipoem@p@RTLftntext#1{%
17578 \edef\@tempyii{%
17579   \the\bidipoem@p@ftn
17580   \begingroup
17581     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17582     \noexpand\protected@xdef\noexpand\@thefnmark{%
17583       \noexpand\thempfn
17584     }%
17585     \noexpand\Hy@bidipoem@RTLfootnotetext{%
17586       \Hy@footnote@currentHref
17587     }%
17588   }%
17589   \global\bidipoem@p@ftn\expandafter{%
17590     \@tempyii{#1}%
17591   \endgroup
17592 }%
17593 }%
17594 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17595   \HRTL@RTLfootnotetext{%
17596     \ifHy@nesting
17597       \hyper@@anchor{#1}{#2}%
17598     \else
17599       \Hy@raisedlink{%
17600         \hyper@@anchor{#1}{\relax}%
17601       }%
17602       \def\@currentHref{#1}%
17603       \let\@currentlabelname\@empty
17604       #2%
17605     \fi
17606   }%
17607 }%
17608 }%
17609 \let\HyOrg@maketitle\maketitle
17610 \def\maketitle{%
17611   \let\Hy@saved@footnotemark\@footnotemark
17612   \let\Hy@saved@footnotetext\@footnotetext
17613   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17614   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17615   \let\@footnotemark\H@\@footnotemark
17616   \let\@footnotetext\H@\@footnotetext
17617   \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17618   \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17619   \@ifnextchar[\Hy@maketitle@optarg{ }
17620     \HyOrg@maketitle
17621     \Hy@maketitle@end
17622 }%
17623 }%

```



```

17624 \def\Hy@maketitle@optarg[#1]{%
17625   \HyOrg@maketitle[-{#1}]%
17626   \Hy@maketitle@end
17627 }%
17628 \def\Hy@maketitle@end{%
17629   \ifx\@footnotemark\H@@footnotemark
17630     \let\@footnotemark\Hy@saved@footnotemark
17631   \fi
17632   \ifx\@footnotetext\H@@footnotetext
17633     \let\@footnotetext\Hy@saved@footnotetext
17634   \fi
17635   \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
17636     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17637   \fi
17638   \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext
17639     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17640   \fi
17641 }%
17642 \def\realfootnote{%
17643   \@ifnextchar[\@xfootnote{%
17644     \stepcounter{\@mpfn}%
17645     \protected@xdef\@thefnmark{\thempfn}%
17646     \H@@@footnotemark\H@@@footnotetext
17647   }%
17648 }%
17649 \fi
17650 \def\Hy@BeginAnnot#1{%
17651   \ifmmode\else\beginL\fi%
17652   \global\advance\c@Hy@AnnotLevel\@ne
17653   \ifnum\c@Hy@AnnotLevel=\@ne
17654     #1%
17655   \fi
17656 }
17657 \def\Hy@endAnnot{%
17658   \ifnum\c@Hy@AnnotLevel=\@ne
17659     \Hy@endcolorlink
17660     \@pdfm@mark{eann}%
17661   \fi
17662   \global\advance\c@Hy@AnnotLevel\m@ne
17663   \ifmmode\else\endL\fi%
17664 }
17665 \def\hyper@link#1#2#3{%
17666   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
17667 }
17668 \def\hyper@linkfile#1#2#3{%
17669   \leavevmode
17670   \Hy@BeginAnnot{%
17671     \def\Hy@pstringF{#2}%
17672     \Hy@CleanupFile\Hy@pstringF
17673     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17674     \Hy@pstringdef\Hy@pstringD{#3}%
17675     \Hy@MakeRemoteAction
17676     \@pdfm@mark{%
17677       bann<<%

```



```

17678     /Type/Annot%
17679     /Subtype/Link%
17680     \ifHy@pdfa /F 4\fi
17681     \Hy@setpdfborder
17682     \ifx\@filebordercolor\relax
17683     \else
17684         /C[\@filebordercolor]%
17685     \fi
17686     /A<<%
17687     /S/GoToR%
17688     /F(\Hy@pstringF)%
17689     /D%
17690     \ifx\#3\%
17691         [\Hy@href@page\@pdfremotestartview]%
17692     \else
17693         (\Hy@pstringD)%
17694     \fi
17695     \Hy@SetNewWindow
17696     \Hy@href@nextactionraw
17697     >>%
17698 >>%
17699 }%
17700 \Hy@colorlink\@filecolor
17701 }%
17702 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17703 \Hy@endAnnot
17704 }
17705 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17706 \leavevmode
17707 \Hy@BeginAnnot{%
17708 \Hy@pstringdef\Hy@pstringF{#1}%
17709 \Hy@pstringdef\Hy@pstringP{#3}%
17710 \@pdfm@mark{%
17711 bann<<%
17712 /Type/Annot%
17713 /Subtype/Link%
17714 \ifHy@pdfa /F 4\fi
17715 \Hy@setpdfborder
17716 \ifx\@runbordercolor\relax
17717 \else
17718     /C[\@runbordercolor]%
17719 \fi
17720 /A<<%
17721 /F(\Hy@pstringF)%
17722 /S/Launch%
17723 \Hy@SetNewWindow
17724 \ifx\#3\%
17725 \else
17726     /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17727 \fi
17728 \Hy@href@nextactionraw
17729 >>%
17730 >>%
17731 }%

```



```

17732   \Hy@colorlink\@runcolor
17733 }%
17734 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17735 \Hy@EndAnnot
17736 }
17737 \def\hyper@linkurl#1#2{%
17738   \leavevmode
17739   \Hy@BeginAnnot{%
17740     \Hy@pstringdef\Hy@pstringURI{#2}%
17741     \@pdfm@mark{%
17742       bann<<%
17743         /Type/Annot%
17744         /Subtype/Link%
17745         \ifHy@pdfa /F 4\fi
17746         \Hy@setpdfborder
17747         \ifx\@urlbordercolor\relax
17748         \else
17749           /C[\@urlbordercolor]%
17750         \fi
17751         /A<<%
17752         /S/URI%
17753         /URI(\Hy@pstringURI)%
17754         \ifHy@href@ismap
17755           /IsMap true%
17756         \fi
17757         \Hy@href@nextactionraw
17758       >>%
17759     >>%
17760   }%
17761   \Hy@colorlink\@urlcolor
17762 }%
17763 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17764 \Hy@EndAnnot
17765 }
17766 \def\Acrobatmenu#1#2{%
17767   \Hy@Acrobatmenu{#1}{#2}{%
17768     \Hy@BeginAnnot{%
17769       \EdefEscapeName\Hy@temp@menu{#1}%
17770       \@pdfm@mark{%
17771         bann<<%
17772           /Type/Annot%
17773           /Subtype/Link%
17774           \ifHy@pdfa /F 4\fi
17775           \Hy@setpdfborder
17776           \ifx\@menubordercolor\relax
17777           \else
17778             /C[\@menubordercolor]%
17779           \fi
17780           /A<<%
17781           /S/Named%
17782           /N/\Hy@temp@menu
17783           \Hy@href@nextactionraw
17784         >>%
17785       >>%

```



```

17786     }%
17787     \Hy@colorlink\@menucolor
17788     }%
17789     \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17790     \Hy@EndAnnot
17791 }%
17792 }
17793 \def\hyper@natlinkstart#1{%
17794   \Hy@backout{#1}%
17795   \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17796   \def\hyper@nat@current{#1}%
17797 }
17798 \def\hyper@natlinkend{%
17799   \if@RTL\endR\fi\hyper@linkend
17800 }
17801 \def\hyper@natlinkbreak#1#2{%
17802   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17803 }%
17804 }
17805 \pdfstringdefDisableCommands{%
17806   \let\LRE\@firstofone
17807   \let\LR\@firstofone
17808   \let\RLE\@firstofone
17809   \let\RL\@firstofone
17810   \def\XeTeX{Xe\TeX}%
17811   \def\XeLaTeX{Xe\LaTeX}%
17812 }
17813 \bidi@patchcmd\@TextField{%
17814   \@pdfm@mark
17815 }{%
17816   \if@RTL
17817     \hskip\Fld@width
17818   \fi
17819   \@pdfm@mark
17820 }{}{}
17821 \bidi@patchcmd\@TextField{%
17822   \unhbox
17823 }{%
17824   \if@RTL
17825     \hskip-\Fld@width
17826   \fi
17827   \unhbox
17828 }{}{}
17829 \bidi@patchcmd\@@Radio{%
17830   \@pdfm@mark
17831 }{%
17832   \if@RTL
17833     \hskip\Fld@width
17834   \fi
17835   \@pdfm@mark
17836 }{}{}
17837 \bidi@patchcmd\@@Radio{%
17838   \unhcopy
17839 }{%

```



```

17840 \if@RTL
17841 \hskip-\Fld@width
17842 \fi
17843 \unhcopy
17844 }{}{}
17845 \bidi@patchcmd\@Submit{%
17846 \@pdfm@mark
17847 }{}{}
17848 \if@RTL
17849 \null
17850 \hskip\wd\pdfm@box
17851 \fi
17852 \@pdfm@mark
17853 }{}{}
17854 \bidi@patchcmd\@Submit{%
17855 \unhbox
17856 }{}{}
17857 \if@RTL
17858 \hskip-\wd\pdfm@box
17859 \fi
17860 \unhbox
17861 }{}{}
17862 \bidi@patchcmd\@Reset{%
17863 \@pdfm@mark
17864 }{}{}
17865 \if@RTL
17866 \null
17867 \hskip\wd\pdfm@box
17868 \fi
17869 \@pdfm@mark
17870 }{}{}
17871 \bidi@patchcmd\@Reset{%
17872 \unhbox
17873 }{}{}
17874 \if@RTL
17875 \hskip-\wd\pdfm@box
17876 \fi
17877 \unhbox
17878 }{}{}

```

## 103 File `imsproc-xetex-bidi.def`

```

17879 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspoc class for
17880 \newenvironment{thebibliography}[1]{}
17881 \@bibtitlestyle
17882 \normalfont\bibliofont\labelsep .5em\relax
17883 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17884 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17885 \bidi@thebibliography@font@hook
17886 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17887 \leftmargin\labelwidth \advance\leftmargin\labelsep
17888 \usecounter{enumiv}}%
17889 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17890 \sfcode`\.=\@m

```



```

17891 }{%
17892 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17893 \endlist
17894 }
17895
17896 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17897 \columnseprule\z@ \columnsep 35\p@
17898 \@indextitlestyle
17899 \thispagestyle{plain}%
17900 \let\item\@idxitem
17901 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17902 \if@RTL\raggedleft\else\raggedright\fi
17903 \hyphenpenalty\@M
17904 \footnotesize}
17905 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17906 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17907 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17908
17909 \def\right@footnoterule{%
17910 \kern-.4\p@
17911 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17912 \kern11\p@\kern-\footnotesep}
17913 \def\left@footnoterule{\kern-.4\p@
17914 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17915 \def\@makefnmark{%
17916 \leavevmode
17917 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17918 }
17919
17920 \def\part{\@startsection{part}{0}%
17921 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
17922 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17923 \def\@tocline#1#2#3#4#5#6#7{\relax
17924 \ifnum #1>\c@tocdepth % then omit
17925 \else
17926 \par \addpenalty\@secpenalty\addvspace{#2}%
17927 \begingroup \hyphenpenalty\@M
17928 \@ifempty{#4}{%
17929 \@tempdima\c@tocdepth\@tocdepth\@tocdepth\@tocdepth\relax
17930 }{%
17931 \@tempdima#4\relax
17932 }%
17933 \parindent\z@ \if@RTL\rightright\else\leftskip\fi#3\relax \advance\if@RTL\rightright\else\leftskip\fi#3\relax
17934 \if@RTL\leftskip\else\rightright\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17935 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17936 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17937 \nobreak
17938 \endgroup
17939 \fi}
17940 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17941 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17942 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17943 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17944 \def\maketitle{\par

```



```

17945 \@topnum\z@ % this prevents figures from falling at the top of page 1
17946 \@setcopyright
17947 \thispagestyle{firstpage}% this sets first page specifications
17948 \uppercase\shorttitle
17949 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17950 \else \andify\shortauthors
17951 \fi
17952 \@maketitle@hook
17953 \begingroup
17954 \@maketitle
17955 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
17956 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17957 \edef\@tempa{%
17958     \@nx\markboth{\the\toks4
17959         \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17960 \@tempa
17961 \endgroup
17962 \c@footnote\z@
17963 \@cleartopmattertags
17964 }

```

## 104 File leqno-xetex-bidi.def

```

17965 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17966 \renewcommand\@eqnnum{\hbxt@.01\p@{}}%
17967 \rlap{\hskip -\displaywidth
17968     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR}}

```

## 105 File letter-xetex-bidi.def

```

17969 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17970 \renewcommand*\@opening[1]{\ifx\@empty\fromaddress
17971     \thispagestyle{firstpage}%
17972     {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17973 \else % home address
17974     \thispagestyle{empty}%
17975     {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17976         \fromaddress \*[2\parskip]%
17977         \@date \end{tabular}\par}%
17978 \fi
17979 \vspace{2\parskip}%
17980 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
17981 \vspace{2\parskip}%
17982 #1\par\nobreak}
17983 \renewcommand\left@footnoterule{%
17984     \kern-\p@
17985     \hrule \@width .4\columnwidth
17986     \kern .6\p@}
17987 \renewcommand\right@footnoterule{%
17988     \kern-\p@
17989     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17990     \kern .6\p@}

```





## 106 File `lettrine-xetex-bidi.def`

```
17991 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
17992 \RemoveFromHook{begindocument}[lettrine]
17993 \AtBeginDocument[lettrine]{%
17994   \if\DefaultOptionsFile\relax
17995   \else
17996     \InputIfFileExists{\DefaultOptionsFile}%
17997     {}%
17998     {\PackageWarning{lettrine.sty}%
17999      {File \DefaultOptionsFile\space not found}}%
18000     }%
18001   \fi
18002   \let\ifL@RTL\if@RTL
18003 }
```

## 107 File `lineno-xetex-bidi.def`

```
18004 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for]
18005 \bidi@patchcmd{\MakeLineNo}{%
18006   \hb@xt@\z@\makeLineNumber}%
18007 }{%
18008   \hboxL to \z@\makeLineNumber}%
18009 }{}{}
18010
18011 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18012   \if@RTL
18013     \hb@xt@\linenumberwidth{\LineNumber\hss}%
18014   \else
18015     \LineNumber
18016   \fi
18017 }{}{}
18018
18019 \bidi@patchcmd{\makeLineNumberRight}{%
18020   \hb@xt@\linenumberwidth{\hss\LineNumber}%
18021 }{%
18022   \if@RTL
18023     \LineNumber
18024   \else
18025     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18026   \fi
18027 }{}{}
18028
18029 \bidi@AfterPreamble{%
18030   \if@RTLmain
18031     \rightlinenumbers*
18032   \else
18033     \leftlinenumbers*
18034   \fi
18035   \@ifpackagewith{lineno}{left}{%
18036     \leftlinenumbers*
18037   }{}
18038   \@ifpackagewith{lineno}{right}{%
18039     \rightlinenumbers*
```



```

18040 }{}
18041 \@ifpackagewith{lineno}{switch}{%
18042   \if@RTLmain
18043     \switchlinenumbers*%
18044   \else
18045     \switchlinenumbers
18046   \fi
18047 }{}
18048 \@ifpackagewith{lineno}{switch*}{%
18049   \if@RTLmain
18050     \switchlinenumbers
18051   \else
18052     \switchlinenumbers*%
18053   \fi
18054 }{}
18055 }
18056

```

## 108 File listings-xetex-bidi.def

```

18057 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18058 \lst@Key{captiondirection}{textdirection}{%
18059   \lstKV@SwitchCases{#1}%
18060   {textdirection:\\%
18061     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18062     LTR:\chardef\bidi@lst@caption@direction\z@%
18063   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18064
18065 \lst@Key{captionscript}{textscript}{%
18066   \lstKV@SwitchCases{#1}%
18067   {textscript:\\%
18068     latin:\chardef\bidi@lst@caption@script\@ne\\%
18069     nonlatin:\chardef\bidi@lst@caption@script\z@%
18070   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18071
18072 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18073   \@ifundefined{bidi@lst@caption@direction}{-}{%
18074     \ifnum\bidi@lst@caption@direction=\z@%
18075       #1%
18076     \else%
18077       \ifnum\bidi@lst@caption@direction=\@ne%
18078         #2%
18079       \fi%
18080     \fi%
18081 }}
18082
18083 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18084   \@ifundefined{bidi@lst@caption@script}{-}{%
18085     \ifnum\bidi@lst@caption@script=\z@%
18086       #1%
18087     \else%
18088       \ifnum\bidi@lst@caption@script=\@ne%
18089         #2%
18090       \fi%

```



```

18091     \fi%
18092 }}
18093
18094 \long\def\@bidi@lst@makecaption#1#2{%
18095   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18096   \vskip\abovecaptionskip
18097   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18098   \sbox\@tempboxa{%
18099     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18100     #1: #2%
18101     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18102   }%
18103   \ifdim \wd\@tempboxa >\hsize
18104     #1: #2\par
18105   \else
18106     \global \@minipagefalse
18107     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18108   \fi
18109   \vskip\belowcaptionskip}%
18110 \def\lst@makecaption{\@bidi@lst@makecaption}
18111 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18112 \bidi@AtEndPreamble{%
18113 \bidi@patchcmd{\lst@MakeCaption}{%
18114   \ifx #1%
18115     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18116       \expandafter\refstepcounter
18117     \fi {lstlisting}%
18118 }{%
18119   \ifx #1%
18120     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18121     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18122       \expandafter\refstepcounter
18123     \fi {lstlisting}%
18124     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18125 }}}%
18126 \bidi@patchcmd{\lst@MakeCaption}{%
18127   \addcontentsline{lol}{lstlisting}%
18128   {\protect\numberline{\thelstlisting}\lst@@caption}%
18129 }{%
18130 \begingroup%
18131   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18132   \addcontentsline{lol}{lstlisting}%
18133   {\protect\numberline{\thelstlisting}\lst@@caption}%
18134 \endgroup%
18135 }}}%
18136 }
18137 \ApplyPatchIfPackageLoaded{caption}{%
18138   \AtBeginCaption{%
18139     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18140     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18141   }
18142   \let\@bidi@lst@makecaption\caption@makecaption%
18143   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18144   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%

```



```

18145 }{%
18146 \AtBeginDocument{%
18147 \ifundefined{captionlabelfalse}{}{%
18148 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18149 \ifundefined{caption@startrue}{}{%
18150 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
18151 }%
18152 }
18153 \AtBeginDocument{
18154 \ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18155 \lst@ifnumberbychapter
18156 \gdef\thelstlisting%
18157 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18158 \else
18159 \gdef\thelstlisting{\@arabic\c@lstlisting}
18160 \fi}

```

## 109 File longtable-xetex-bidi.def

```

18161 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18162 \ExplSyntaxOn
18163 \def\LT@array[#1]#2{%
18164 \UseTaggingSocket{tbl/init}
18165 \tl_if_empty:eTF { \LTcatype }
18166 {
18167 \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18168 }
18169 {
18170 \@kernel@refstepcounter{\LTcatype}\stepcounter{LT@tables}
18171 \tl_gset:Ne \@currentHref {\LTcatype.\cs_if_exist_use:c {theH\LTcatype}}
18172 }
18173 \tbl_gzero_row_count:
18174 \UseTaggingSocket{tbl/longtable/init}
18175 \if l#1%
18176 \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18177 \else\if r#1%
18178 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18179 \else\if c#1%
18180 \LTleft\fill \LTright\fill
18181 \fi\fi\fi
18182 \let\LT@mc@col\multicolumn
18183 \let\LT@@tabarray\@tabarray
18184 \let\LT@@hl\hline
18185 \def\@tabarray{%
18186 \let\hline\LT@@hl
18187 \LT@@tabarray}%
18188 \let\\LT@tabularcr
18189 \let\tabularnewline\\%
18190 \def\newpage{\noalign{\break}}%
18191 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18192 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18193 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18194 \@tempdima\ht\strutbox
18195 \let\@endpbox\LT@endpbox

```



```

18196 \ifx\extrarowheight\@undefined
18197   \let\@acol\@tabacol
18198   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18199   \def\@startpbox{\vtop\LT@startpbox}%
18200   \let\@startpbox\@startpbox
18201   \let\@endpbox\@endpbox
18202   \let\LT@LL@FM@cr\@tabularcr
18203 \else
18204   \advance\@tempdima\extrarowheight
18205   \colsep\@tabcolsep
18206   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18207 \fi
18208 \setbox\@arstrutbox\hbox{\vrule
18209   \@height \arraystretch \@tempdima
18210   \@depth \arraystretch \dp \strutbox
18211   \@width \z@}%
18212 \let\@sharp#\let\protect\relax
18213 \begingroup
18214   \mkpream{#2}%
18215   \tbl_count_table_cols:
18216   \xdef\LT@bchunk{%
18217     \tbl_inbetween_rows:
18218     \global\advance\c@LT@chunks\@ne
18219     \global\LT@rows\z@\setbox\z@\vbox\bgroup
18220     \LT@setprevdepth
18221     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18222     \tabskip\z@ \@arstrut
18223     \UseTaggingSocket{tbl/row/begin}%
18224     \tbl_init_cell_data_for_row:
18225     \@preamble \tabskip\LTright \cr}%
18226 \endgroup
18227 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18228 \LT@make@row
18229 \m@th\let\par\@empty
18230 \everycr{%
18231   \noalign{%
18232     \tbl_trace:n {--longtable--}\tbl_row_int \tbl_col_int
18233     \tbl_row_int \tbl_col_int \tbl_row_int \tbl_col_int
18234     \tbl_row_int \tbl_col_int
18235   }
18236   \tbl_if_row_was_started:T
18237   {
18238     \UseTaggingSocket{tbl/row/end}
18239     \tbl_inbetween_rows:
18240   }
18241   \int_compare:nNt \LT@rows < \LT@chunks
18242   { \tbl_gincr_row_count: } % next is row about to start
18243 }%
18244 }%
18245 \lineskip\z@\baselineskip\z@
18246 \LT@bchunk}
18247 \ExplSyntaxOff
18248 \def\LT@makecaption#1#2#3{%
18249 \LT@mc@col\LT@cols c{\hbox to\z@{\hss\parbox[t]\LT@capwidth{

```



```

18250 \reset@font
18251 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18252 \ifdim\wd\@tempboxa>\hsize
18253 #1{#2: }#3%
18254 \else
18255 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18256 \fi
18257 \endgraf\vskip\baselineskip}%
18258 \hss}}
18259 \ApplyPatchCodeToPackage{caption}{%
18260 \renewcommand\LT@makecaption[3]{%
18261 \caption@LT@make{%
18262 \caption@LT@settype\LTcaptiontype
18263 \caption@LT@setup
18264 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18265 \caption@startrue#1\caption@starfalse
18266 \caption@prepare@stepcounter\LTcaptiontype
18267 \caption@begin\LTcaptiontype
18268 \caption@normalsize
18269 \vskip-\ht\strutbox
18270 \caption@ifdefined\FBifcapttop{%
18271 \let\caption@belowskip\@empty}{}%
18272 \caption@make@above
18273 \caption@@make{#2}{#3}\endgraf
18274 \caption@make@below
18275 \caption@end}}%
18276 }
18277 \def\LT@startpbox#1{%
18278 \bgroup
18279 \color@begingroup
18280 \let\@footnotetext\LT@p@ftntext
18281 \let\@LTRfootnotetext\LT@p@LTRftntext
18282 \let\@RTLfootnotetext\LT@p@RTLftntext
18283 \setlength\hsize{#1}%
18284 \@arrayparboxrestore
18285 \everypar{%
18286 \vrule \@height \ht\@arstrutbox \@width \z@
18287 \everypar{}}%
18288 }
18289 \long\def\LT@p@LTRftntext#1{%
18290 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext [\the\c@footnote]}%
18291 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18292 \long\def\LT@p@RTLftntext#1{%
18293 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext [\the\c@footnote]}%
18294 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18295 \def\LT@output{%
18296 \ifnum\outputpenalty <-\@Mi
18297 \ifnum\outputpenalty > -\LT@end@pen
18298 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18299 \else
18300 \setbox\z@\vbox{\unvbox\@cclv}%
18301 \ifdim \ht\LT@lastfoot>\ht\LT@foot
18302 \dimen@pagegoal
18303 \advance\dimen@\ht\LT@foot

```



```

18304     \advance\dimen@-\ht\LT@lastfoot
18305     \ifdim\dimen@<\ht\z@
18306         \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18307         \@makecol
18308         \@outputpage
18309         \global\ysize\@colroom
18310         \setbox\z@\vbox{\box\LT@head}%
18311     \fi
18312 \fi
18313     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18314     \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18315     \UseTaggingSocket{tbl/longtable/foot}
18316     \if@RTLtab\egroup\endR\egroup\fi
18317 \fi
18318 \else
18319     \setbox\@cclv\vbox{%
18320     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18321     \unvbox\@cclv\copy\LT@foot\vss
18322     \if@RTLtab\egroup\endR\egroup\fi
18323     }%
18324     \UseTaggingSocket{tbl/longtable/foot}
18325     \@makecol
18326     \@outputpage
18327     \global\ysize\@colroom
18328     \copy\LT@head\nobreak
18329 \fi}

```

## 110 File `lscope-xetex-bidi.def`

```

18330 \ProvidesFile{lscope-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscope package for
18331 \RequirePackage{graphicx}
18332 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18333 \if@RTL
18334     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18335 \else
18336     \rotatebox{90}{\box\@outputbox}%
18337 \fi
18338 }{}{}
18339
18340 \g@addto@macro{\landscape}{%
18341 \if@bidi@csdef{bidi@columnwidth}{%
18342     \bidi@columnwidth\columnwidth
18343 }{}%
18344 \let\bidi@left@footnoterule\left@footnoterule
18345 \let\bidi@right@footnoterule\right@footnoterule
18346 \def\left@footnoterule{%
18347     \if@RTL
18348     \bidi@right@footnoterule
18349     \else
18350     \bidi@left@footnoterule
18351     \fi
18352 }%
18353 \def\right@footnoterule{%
18354     \if@RTL

```



```

18355     \bidi@left@footnoterule
18356     \else
18357     \bidi@right@footnoterule
18358     \fi
18359 }%
18360 }

```

## 111 File `mathtools-xetex-bidi.def`

```

18361 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18362 \RequirePackage{graphicx}
18363 \MHInternalSyntaxOn
18364 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18365   \@namedef{MT_tagform_#1:n}##1
18366     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@@italiccorr#4}
18367 }
18368 \renewtagform{default}{\{ }\}
18369 \MHInternalSyntaxOff

```

## 112 File `mdframed-xetex-bidi.def`

```

18370 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18371 \newif\if@bidi@mdf@RTL
18372 \def\mdf@lrbox#1{%
18373   \mdf@patchamsthm%patch amsthm
18374   \if@RTL\@bidi@mdf@RTLtrue\fi%
18375   \@RTLfalse%
18376   \setbox#1\vbox\bgroup%
18377   \color@begingroup%
18378   \if@bidi@mdf@RTL\@RTLtrue\fi%
18379   \mdf@horizontalmargin@equation%
18380   \columnwidth=\hsize%
18381   \textwidth=\hsize%
18382   \let\if@nobreak\iffalse%
18383   \let\if@noskipsec\iffalse%
18384   \let\par\@par%
18385   \let\-\@dischyph%
18386   \let'\@acci\let`\@accii\let\=\@acciii%
18387   \parindent\z@ \parskip\z@skip%
18388   \linewidth\hsize%
18389   \@totalleftmargin\z@%
18390   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18391   \parfillskip\@flushglue \lineskip\normallineskip%
18392   \baselineskip\normalbaselineskip%
18393 %% \sloppy%
18394   \let\\\@normalcr%
18395   \mdf@par@local%New feature to restore parskip/parindent local in save box
18396   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18397   \@afterindentfalse%
18398   %\@afterheading%
18399 }
18400 \renewrobustcmd\mdfframedtitleenv[1]{%
18401   \mdf@lrbox{\mdf@frametitlebox}%
18402   \mdf@frametitlealignment%

```





```

18403     \leavevmode{\color{\mdf@frametitlefontcolor}}%
18404         \normalfont\mdf@frametitlefont{#1}
18405     \ifbool{mdf@ignorelastdescenders}%
18406     {%
18407         \par\strut\par
18408         \unskip\unskip\setbox0=\lastbox
18409         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18410     }{}%
18411     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18412     \endmdf@lrbox\relax%
18413     \mdf@ignorevbadness%
18414     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18415     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18416     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18417     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18418     \mdfframetitleboxtotalheight=\dimexpr
18419         \ht\mdf@frametitlebox
18420         +\dp\mdf@frametitlebox%
18421         +\mdf@frametitleaboveskip@length
18422         +\mdf@frametitlebelowskip@length
18423         \relax%
18424 }
18425
18426 \renewrobustcmd*\mdf@footnoteoutput{%
18427     \ifvoid\@mpfootins\else%
18428         \nobreak%
18429         \vskip\mdf@footnotedistance@length%
18430         \normalcolor%
18431         \bidi@mpfootnoterule%
18432         \unvbox\@mpfootins%
18433     \fi%
18434 }
18435
18436
18437 \renewrobustcmd*\mdf@footnoteinput{%
18438     \def\@mpfn{mpfootnote}%
18439     \def\thempfn{\thempfootnote}%
18440     \c@mpfootnote\z@%
18441     \let\@footnotetext\@mpfootnotetext%
18442     \let\@LTRfootnotetext\@mpLTRfootnotetext%
18443     \let\@RTLfootnotetext\@mpRTLfootnotetext%
18444 }

```

### 113 File media9-xetex-bidi.def

```

18445 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18446 \RequirePackage{bidi-media9}

```

### 114 File bidi-media9.sty

```

18447 \ProvidesExplPackage{bidi-media9}[2022/02/18]{0.4}
18448 {bidi fixes for media9 package for the XeTeX engine}
18449
18450 \keys_define:nn{media9/mbtn}{

```



```

18451 draft .code:n = {},
18452 final .code:n = {},
18453
18454 tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18455 tooltip .value_required:n = {true},
18456
18457 overface .code:n = {
18458   \sbox\l_mix_poster_box{
18459     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18460     \mix_pdfxform:n{\l_mix_poster_box}
18461     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18462   },
18463 overface .value_required:n = {true},
18464
18465 downface .code:n = {
18466   \sbox\l_mix_poster_box{
18467     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18468     \mix_pdfxform:n{\l_mix_poster_box}
18469     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18470   },
18471 downface .value_required:n = {true},
18472
18473 3Dgotoview .code:n = {
18474   \tl_set:Nx\l_tmpa_tl{#1}           %extract ref
18475   \regex_replace_once:nnN{([\^:]+)??.*}{\1}\l_tmpa_tl
18476   \tl_trim_spaces:N\l_tmpa_tl
18477   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18478     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18479       \tl_set:Nx\l_tmpb_tl{#1}       %extract idx
18480       \regex_replace_once:nnN{[\^:]+:?.*}{\1}\l_tmpb_tl
18481       \tl_trim_spaces:N\l_tmpb_tl
18482       \tl_if_blank:VF\l_tmpb_tl{
18483         \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18484           \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
18485         }{
18486           \regex_match:nVTF{^\d+$}\l_tmpb_tl{
18487             \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
18488           }{
18489             \regex_replace_once:nnN{^\(\s*\)}{\1}\l_tmpb_tl
18490             \regex_replace_once:nnN{\s*\)}{\1}\l_tmpb_tl
18491             \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
18492           }
18493         }
18494       }
18495     \mix_pdfobj:nnn{}{dict}{
18496       /S/JavaScript/JS~(
18497         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18498         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18499           annotRM['\l_tmpa_tl']=
18500             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18501         }
18502         annotRM['\l_tmpa_tl'].activated=true;
18503       )
18504     \tl_if_blank:VF\l_tmpb_tl{

```



```

18505         /Next~<<
18506         /S/GoTo3DView
18507         /TA~\tl_use:c{ann@\l_tmpa_tl}
18508         /V\l_mix_vidx_tl
18509         >>
18510     }
18511 }
18512 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj}
18513 }
18514 }{
18515     \msg_warning:nx{media9}{undefined-reference}{\l_tmpa_tl}
18516     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18517         \tl_new:N\g_mix_refundefwarned_tl
18518         \AtEndDocument{msg_warning:nn{media9}{undefined-references}}
18519     }
18520 }
18521 },
18522 3Dgotoview .value_required:n = {true},
18523
18524 mediacommand .code:n = {
18525     \tl_set:Nx\l_tmpa_tl{#1}
18526     \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
18527     \tl_trim_spaces:N\l_tmpa_tl
18528     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18529         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18530             \tl_set:Nx\l_tmpb_tl{#1}
18531             \regex_replace_once:nnN{[~:]+\?:?}{\1}\l_tmpb_tl
18532             \tl_trim_spaces:N\l_tmpb_tl
18533             \regex_replace_all:nnN{^{\|}\$}{\1}\l_tmpb_tl
18534             \tl_set:Nx\l_mix_cmd_tl{
18535                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18536             \tl_trim_spaces:N\l_mix_cmd_tl
18537             \tl_set:Nx\l_mix_arg_tl{
18538                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18539             \tl_trim_spaces:N\l_mix_arg_tl
18540             \mix_pdfobj:nnn{}{dict}{
18541                 /S/JavaScript/JS~(
18542                 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18543                 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18544                     annotRM['\l_tmpa_tl']=
18545                     this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18546                 }
18547                 annotRM['\l_tmpa_tl'].activated=true;
18548             )
18549             \tl_if_blank:VF\l_mix_cmd_tl{
18550                 /Next~<<
18551                 /S/RichMediaExecute
18552                 /TA~\tl_use:c{ann@\l_tmpa_tl}
18553                 /TI~\tl_use:c{main@\l_tmpa_tl}
18554                 /CMD~<<
18555                 /C~(\l_mix_cmd_tl)
18556                 \tl_if_blank:VF\l_mix_arg_tl{
18557                     /A~[\l_mix_arg_tl]
18558                 }

```



```

18559         >>
18560         >>
18561     }
18562 }
18563 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18564 }
18565 }{
18566   \msg_warning:nx{media9}{undefined-reference}{\l_tmpa_tl}
18567   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18568     \tl_new:N\g_mix_refundefwarned_tl
18569     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18570   }
18571 }
18572 },
18573 mediacommand .value_required:n = {true},
18574
18575 jsaction .code:n = {
18576   \tl_set:Nx\l_tmpa_tl{#1}
18577   \regex_match:nVTF{^[^{:}]+:.*$}\l_tmpa_tl{
18578     \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
18579     \tl_trim_spaces:N\l_tmpa_tl
18580   }{\tl_clear:N\l_tmpa_tl}
18581   \tl_set:Nx\l_tmpb_tl{#1}
18582   \tl_if_blank:VF\l_tmpa_tl{
18583     \tl_if_exist:cF{ann@\l_tmpa_tl}{
18584       \msg_warning:nx{media9}{undefined-reference}{\l_tmpa_tl}
18585       \cs_if_exist:NF\g_mix_refundefwarned_tl{
18586         \tl_new:N\g_mix_refundefwarned_tl
18587         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18588       }
18589     }
18590     \regex_replace_once:nnN{[~:]+\:}{\l_tmpb_tl}
18591   }
18592   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18593   \tl_trim_spaces:N\l_tmpb_tl
18594   \tl_if_blank:VF\l_tmpb_tl{
18595     \mix_pdfobj:nnn{}{dict}{
18596       /S/JavaScript/JS~(
18597         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
18598   \bool_lazy_and:nnT{
18599     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18600   }{
18601     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18602   }{
18603     \mix_pdfobj:nnn{}{dict}{
18604       /S/JavaScript/JS~(
18605         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18606         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18607           annotRM['\l_tmpa_tl']=
18608             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18609         }
18610         annotRM['\l_tmpa_tl'].activated=true;
18611       )
18612     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}

```



```

18613     }
18614   }
18615   \bool_if:nT{
18616     \bool_lazy_and_p:nn{
18617       \tl_if_exist_p:c{ann@\l_tmpa_tl}
18618     }{
18619       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18620     }
18621     || !\tl_if_blank_p:V\l_tmpb_tl
18622   }{
18623     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18624   }
18625 },
18626 jsaction .value_required:n = {true},
18627
18628 unknown .code:n = {
18629   \msg_error:nx{media9}{unknown~option}{\l_keys_key_tl}
18630 }
18631 }
18632
18633 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
18634   \mix_uriend:
18635   \group_begin:
18636   \mix_beginLTR:
18637   \mode_leave_vertical:
18638   %empty stream as appearance dummy
18639   \cs_if_exist:NF\g_mix_appearance_tl{
18640     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18641     \mix_pdfxform:n{\l_mix_poster_box}
18642     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18643   }
18644   \mix_reset:
18645   \mix_uribegin: %treat URI characters correctly
18646   \keys_set:nn{media9/user}{#1}
18647   \mix_uriend:
18648   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18649   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18650   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}={=}
18651   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=}={=}
18652   \tl_gtrim_spaces:N\g_mix_flashvars_tl
18653
18654   \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18655
18656   %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18657   %\hbox_set:Nn\l_mix_poster_box{#2}
18658   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18659   \mix_scale:n{\l_mix_poster_box}
18660   \bool_if:nT{
18661     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18662     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18663   }{
18664     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18665   }
18666   \bool_if:NTF\g_mix_usrdraft_bool{

```



```

18667 \tl_if_empty:NF\g_mix_usrlabel_tl{
18668   \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18669 }
18670 \tl_if_blank:oTF{#2}{
18671   \mix_uribegin: %treat URI characters correctly
18672   \mix_draftbox:n{\tl_to_str:n{#3}}
18673   \mix_uriend:
18674 }{
18675   \hbox_to_wd:nn{\g_mix_wd_tl}{
18676     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18677     \box_use:N\l_mix_poster_box\hss
18678   }
18679 }
18680 }{
18681   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18682     %attach script that switches off play button overlay upon activation
18683     \mix_pdfobj:nnn{}{stream}{
18684       {
18685         var~ocgs=host.getOCGs(host.pageNum);
18686         for(var~i=0;i<ocgs.length;i++){
18687           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18688             ocgs[i].state=false;
18689           }
18690         }
18691       }
18692     }
18693     \mix_pdfobj:nnn{}{dict}{
18694       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18695     }
18696     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18697     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18698     %enforce plain playbutton overlay for XeTeX
18699     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18700   }
18701   %embed main asset
18702   \mix_uribegin:
18703   \mix_embedasset:n{#3}
18704   \bool_if:nTF{
18705     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18706   }{
18707     \bool_gset_true:N\g_mix_iiid_bool
18708     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18709   }{
18710     \str_case_e:nnF{\l_mix_base_tl}{
18711       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18712       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18713       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18714       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18715       {StrobeMediaPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18716     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18717   }
18718   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18719   \mix_uriend:
18720   %secondary assets (added by addresource)

```



```

18721 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18722 \seq_map_inline:Nn\g_mix_script_seq{
18723   \mix_embedasset:n{##1}
18724   \tl_put_right:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl}
18725 }
18726 %attach 3D calculation script
18727 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18728   \mix_embedasset:n{3Dmenu.js}
18729   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18730 }
18731 %create 3D views from file (option 3Dviews)
18732 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18733   \tl_set:Nn\l_mix_level_tl{-1}
18734   \int_zero:N\l_mix_viewcnt_int
18735   \int_zero:N\l_mix_lineno_int
18736
18737   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18738   \ior_map_inline:Nn\l_mix_vfile_stream{
18739     \int_incr:N\l_mix_lineno_int
18740     \keys_set:nn{media9/views}{##1} %process input line
18741   }
18742   \ior_close:N\l_mix_vfile_stream
18743 }
18744 \bool_if:nT{ %create default 3D view if required
18745   \g_mix_iiid_bool &&
18746   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18747 }{
18748   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18749   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18750   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18751   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18752   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18753   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18754   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18755
18756   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18757   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18758   \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18759   \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18760
18761   \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18762   \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18763   \tl_clear:N\l_mix_naarray_tl
18764
18765   \bool_if:NF\l_mix_ciiw_bool{
18766     \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18767     \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18768   }
18769
18770   \tl_clear:N\l_mix_naarray_tl
18771   \tl_clear:N\l_mix_saarray_tl
18772   \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18773
18774   \mix_view:n{Default}

```



```

18775     \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18776
18777   }
18778   \mix_pdfobj:nnn{}{dict}{
18779     /Type/RichMediaInstance
18780     /Subtype/\g_mix_mainassetstl
18781     /Asset~\g_mix_mainasset_tl
18782     \bool_if:NF\g_mix_iiid_bool{
18783       /Params~<<
18784         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18785           /Foreground
18786         }{
18787           /Background
18788         }
18789         \tl_if_blank:VF\g_mix_flashvarstl{
18790           /FlashVars~(\g_mix_flashvarstl)
18791         }
18792       >>
18793     }
18794   }
18795   \tl_if_empty:NF\g_mix_usrlabel_tl{
18796     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18797   }
18798   \mix_pdfobj:nnn{}{dict}{
18799     /Type/RichMediaConfiguration
18800     /Subtype/\g_mix_mainassetstl
18801     /Instances~[\mix_pdflastobj:]
18802   }
18803   \mix_pdfobj:nnn{}{dict}{
18804     /Type/RichMediaContent
18805     /Assets~<</Names~[\g_mix_assetstl]>>
18806     /Configurations~[\mix_pdflastobj:]
18807     \bool_if:nT{
18808       \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18809     }{
18810       /Views~[\l_mix_iiidviewarray_tl]
18811     }
18812   }
18813   \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18814   \bool_if:nT{
18815     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18816   }{
18817     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18818   }
18819   %determine floating window size
18820   \bool_if:NT\g_mix_opt_windowed_bool{
18821     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18822   }
18823   \mix_pdfobj:nnn{}{dict}{
18824     /Activation~<<
18825     /Condition\g_mix_act_tl
18826     \bool_if:nT{
18827       \g_mix_iiid_bool &&
18828       !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})

```





```

18829     }{%seems to work only with 3D content
18830         /Animation~<<
18831         /Subtype/\g_mix_playtpe_tl
18832         /PlayCount~\g_mix_playcnt_tl
18833         /Speed~\g_mix_playspd_tl
18834     >>
18835 }
18836 \bool_if:nT{
18837     \g_mix_iiid_bool && (
18838         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18839     )
18840 }{/View~\l_mix_dfltview_tl}
18841 /Presentation~<<
18842     /Transparent~\g_mix_transp_tl
18843     \bool_if:NTF\g_mix_opt_windowed_bool{
18844         /Style/Windowed
18845         /Window~<<
18846             /Width~<</Default~\tl_mix_fltd>>
18847             /Height~<</Default~\tl_mix_flht>>
18848             /Position~<<
18849                 /HOffset~0/VOffset~0
18850                 \str_case:e:nNF{\g_mix_winpos_tl}{
18851                     {tl}{/VAlign/Near/HAlign/Near}
18852                     {cl}{/VAlign/Center/HAlign/Near}
18853                     {bl}{/VAlign/Far/HAlign/Near}
18854                     {bc}{/VAlign/Far/HAlign/Center}
18855                     {br}{/VAlign/Far/HAlign/Far}
18856                     {cr}{/VAlign/Center/HAlign/Far}
18857                     {tr}{/VAlign/Near/HAlign/Far}
18858                     {tc}{/VAlign/Near/HAlign/Center}
18859                 }{/HAlign/Center/VAlign/Center}
18860             >>
18861         >>
18862     }{
18863         /Style/Embedded
18864     }
18865     \bool_if:NTF\g_mix_iiid_bool{
18866         /Toolbar~\g_mix_tools_tl
18867         /NavigationPane~\g_mix_nav_tl
18868     }{
18869         /PassContextClick~\g_mix_contextclick_tl
18870     }
18871     >>
18872     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18873     >>
18874     /Deactivation~<</Condition\g_mix_deact_tl>>
18875 }
18876 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18877 \tl_if_empty:NF\g_mix_usrlabel_tl{
18878     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18879 }
18880 % #1:width, #2:height, #3:depth, #4:content (key-value)
18881 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18882     /Subtype/RichMedia

```



```

18883 /F-4
18884 /BS~<</W-0/S/S>>
18885 /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18886 /NM~(\g_mix_label_tl)
18887 /AP~<</N~\g_mix_appearance_tl>>
18888 /RichMediaSettings~\l_mix_settings_tl
18889 /RichMediaContent~\l_mix_content_tl
18890 }
18891 \tl_if_empty:NF\g_mix_usrlabel_tl{
18892 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18893 \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18894 \noexpand\the\g@mix@page@int}
18895 }
18896 \mix_pdfobj:nnn{}{dict}{
18897 /S/JavaScript/JS~(
18898 try{
18899 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18900 if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18901 annotRM['\g_mix_label_tl']=
18902 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18903 }
18904 \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18905 if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18906 var~ocgs=this.getOCGs(this.pageNum);
18907 for(var~i=0;i<ocgs.length;i++){
18908 if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18909 var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18910 }
18911 }
18912 }
18913 if(
18914 !annotRM['\g_mix_label_tl'].activated&&(
18915 app.viewerType=='Reader' ||
18916 app.viewerType=='Exchange' ||
18917 app.viewerType=='Exchange-Pro'
18918 )&&app.viewerVersion>=9
18919 ){
18920 ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18921 }
18922 }
18923 }catch(e){}
18924 this.dirty=false;
18925 )
18926 }
18927 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18928 /Subtype/Widget
18929 /FT/Btn/Ff-65537/F-2
18930 /BS~<</W-0>>
18931 /T~(fd@\g_mix_label_tl)
18932 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18933 }
18934 \mix_appendtofields:n{\mix_pdflastann:}
18935 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18936 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{

```



```

18937     \hbox_to_wd:nn{\g_mix_wd_tl}{
18938         \vrule-width~\c_zero_dim-height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18939     }
18940 }{\%insert play button overlay
18941     \mix_insert_btnocg: %create OCG
18942     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
18943     \group_begin:
18944     \cs_if_exist:NT\textdir{\textdir TLT}
18945     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18946     \box_move_down:nn{\g_mix_dp_tl}{
18947         \hbox_to_wd:nn{\g_mix_wd_tl}{
18948             \vbox_to_ht:nn{\g_mix_tt_tl}{
18949                 \vss
18950                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18951                 \box_use:N\l_mix_pbtn_box
18952                 \ocgbase_oc_emc:
18953             }
18954         }
18955     }
18956     \group_end:
18957 }
18958     \int_gincr:N\g_mix_rmcnt_int
18959 }
18960 \mix_endLTR:
18961 \group_end:
18962 }
18963 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18964 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18965
18966 \RenewDocumentCommand\mediabutton{0{m}}{#1 options, #2 normal button text
18967     \mix_uribegin:
18968     \group_begin:
18969     \mix_beginLTR:
18970     \mode_leave_vertical:
18971     %reset various variables
18972     \tl_gclear:N\g_mix_overbtn_tl
18973     \tl_gclear:N\g_mix_downbtn_tl
18974     \tl_gclear:N\g_mix_btnactions_tl
18975     \tl_gclear:N\g_mix_tooltip_tl
18976     %process options
18977     \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
18978     \mix_uribegin: %treat URI characters correctly
18979     \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
18980     \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18981     \mix_uribegin:
18982     %normal button appearance
18983     %\hbox_set:Nn\l_mix_poster_box{#2}
18984     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18985     \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18986     \tl_set:Nx\height {\dim_use:N\box_ht:N\l_mix_poster_box}
18987     \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
18988     \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
18989         \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
18990             \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}

```



```

18991 \mix_pdfxform:n{\l_mix_poster_box}
18992 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
18993 %insert widget annotation
18994 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
18995 /Subtype/Widget
18996 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
18997 \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
18998 /FT/Btn/Ff~65536
18999 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
19000 /AP~<<
19001 /N~\g_mix_normalbtn_tl
19002 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
19003 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
19004 >>
19005 /MK~<<
19006 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19007 /I~\g_mix_normalbtn_tl
19008 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
19009 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
19010 >>
19011 /A~<<
19012 /S/JavaScript/JS~(app.focusRect=false;)
19013 %sequence of actions to perform
19014 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
19015 >>
19016 }
19017 \mix_appendtofields:n{\mix_pdflastann:}
19018 \hbox_to_wd:nn{\width}{
19019 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
19020 }
19021 \int_gincr:N\g_mix_mbtncnt_int
19022 }
19023 \mix_endLTR:
19024 \group_end:
19025 }
19026 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19027 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19028

```

## 115 File memoir-xetex-bidi.def

```

19029 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
19030 \renewcommand{\keepthetitle}{%
19031 \@bsmtitleempty
19032 \global\let\thanks\relax
19033 \global\let\LTRthanks\relax
19034 \global\let\RTLthanks\relax
19035 \global\let\and\relax
19036 \global\let\andnext\relax
19037 \global\let\@thanks\@empty
19038 \global\let\@title\@empty
19039 \global\let\@author\@empty
19040 \global\let\@date\@empty}
19041 \renewcommand{\maketitle}{\par

```



```

19042 \begingroup
19043   \@bsmarkseries
19044   \def\@makefnmark{\@textsuperscript{%
19045     \normalfont\@bsthanksheadpre \tmark \@bsthanksheadpost}}%
19046   \long\def\@makefntext##1{\makethanksmark ##1}
19047   \if@twocolumn
19048     \ifnum \col@number=\@ne
19049       \@maketitle
19050     \else
19051       \twocolumn[\@maketitle]%
19052     \fi
19053   \else
19054     \ifdim\pagetotal>\z@
19055       \newpage
19056     \fi
19057     \global\@topnum\z@
19058     \@maketitle
19059     \fi
19060     \thispagestyle{title}\@thanks
19061 \endgroup
19062 \@bscontmark % \setcounter{footnote}{0}%
19063 }
19064 \renewcommand*\@memRTLleftskip{\if@RTL\rightskip\else\leftskip\fi}
19065 \renewcommand*\@memRTLrightskip{\if@RTL\leftskip\else\rightskip\fi}
19066 \renewcommand*\@memRTLvleftskip{\if@RTL\vrightskip\else\vleftskip\fi}
19067 \renewcommand*\@memRTLvrightskip{\if@RTL\vleftskip\else\vrightskip\fi}
19068 \renewcommand*\@memRTLraggedright{\if@RTL\raggedleft\else\raggedright\fi}
19069 \renewcommand*\@memRTLraggedleft{\if@RTL\raggedright\else\raggedleft\fi}
19070 \renewcommand*\@thesection{\thechapter\@SepMark\@arabic\c@section}
19071 \renewcommand*\@thesubsection{%
19072   \thesection\@SepMark\@arabic\c@subsection}
19073 \renewcommand*\@thesubsubsection{%
19074   \thesubsection\@SepMark\@arabic\c@subsubsection}
19075 \renewcommand*\@theparagraph{%
19076   \thesubsubsection\@SepMark\@arabic\c@paragraph}
19077 \renewcommand*\@thesubparagraph{%
19078   \theparagraph\@SepMark\@arabic\c@subparagraph}
19079 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19080 \renewcommand{\theequation}{%
19081   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19082 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19083 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19084 \ifartopt
19085   \chapterstyle{article}
19086   \counterwithout{figure}{chapter}
19087   \counterwithout{table}{chapter}
19088   \counterwithout{footnote}{chapter}
19089   \counterwithout{equation}{chapter}
19090   \renewcommand{\chaptername}{}
19091   \renewcommand{\maketitlehookb}{%
19092     \vskip -1.5\topsep\vskip -1.5\partopsep}
19093   \renewcommand{\maketitlehookc}{%
19094     \vskip -1.5\topsep\vskip -1.5\partopsep}
19095 \fi

```



```

19096 \long\def\@makecaption#1#2{\let\@memtempa\relax
19097 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19098 \else \def\@memtempa{\vbox to\topskip{}}\fi
19099 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19100 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19101 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19102 \let\footnote\@contfnote
19103 \let\footnotemark\@contfmark
19104 \ifdim\wd\@tempboxa<\linewidth \centering \fi
19105 \if@contcw
19106 \centering
19107 \parbox{\@contcwidth}{%
19108 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19109 \fi
19110 \ifdim\wd\@tempboxa<\linewidth
19111 \@contpre
19112 {\@contnfont #1\@contdelim}\@memtempa
19113 {\@contcshortstyle \@conttfont #2\@contfinal\par}
19114 \else
19115 \if@conthang
19116 \sbox\@tempboxa{\@contnfont #1\@contdelim}
19117 \@contpre%
19118 {\@contcstyle\hangindent=\wd\@tempboxa
19119 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19120 \else
19121 \if@contindent
19122 \@contpre%
19123 {\@contnfont #1\@contdelim}\@memtempa
19124 {\@contcstyle\hangindent=\@contindw
19125 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19126 \else
19127 \@contpre%
19128 {\@contnfont #1\@contdelim}\@memtempa
19129 {\@contcstyle \@conttfont #2\@contfinal\par}
19130 \fi
19131 \fi
19132 \fi
19133 \@contpost
19134 \if@contcw
19135 \par
19136 } % end of the \parbox
19137 \fi
19138 \vskip\belowcaptionskip}
19139 \ApplyPatchCodeToPackage{caption}{%
19140 \AtBeginPackage{caption}{
19141 \ClassWarningNoLine{memoir}{%
19142 You are using the caption package with the memoir \MessageBreak
19143 class. This may cause unexpected or inconsistent \MessageBreak
19144 results if you use any of memoir's captioning facilities}
19145
19146 \long\def\@makecaption##1##2{%
19147 \vskip\abovecaptionskip
19148 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19149 \ifdim \wd\@tempboxa >\hspace

```



```

19150 \ifRTL\beginR\fi##1: ##2\ifRTL\endR\fi\par
19151 \else
19152 \global \@minipagefalse
19153 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19154 \fi
19155 \vskip\belowcaptionskip}
19156
19157 \def\caption{%
19158 \ifx\@capttype\@undefined
19159 \@latex@error{\noexpand\caption outside float}\@ehd
19160 \expandafter\@gobble
19161 \else
19162 \refstepcounter\@capttype
19163 \expandafter\@firstofone
19164 \fi
19165 {\@dblarg{\@caption\@capttype}}%
19166 }
19167
19168 \long\def\@caption##1[##2]##3{%
19169 \par
19170 \addcontentsline{\csname ext@##1\endcsname}{##1}%
19171 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19172 \begingroup
19173 \@parboxrestore
19174 \if@minipage
19175 \@setminipage
19176 \fi
19177 \normalsize
19178 \@makecaption{\csname fnum##1\endcsname}{\ignorespaces ##3}\par
19179 \endgroup}
19180 }}
19181 \renewenvironment{thebibliography}[1]{%
19182 \bibsection
19183 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19184 \bidi@thebibliography@font@hook%
19185 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

19186 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19187 \def\RTL@outputdblcol{%
19188 \if@firstcolumn
19189 \global \@firstcolumnfalse
19190 \global\setbox\@leftcolumn\copy\@outputbox
19191 \splitmaxdepth\maxdimen
19192 \vbadness\maxdimen
19193 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19194 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19195 \toks@\expandafter{\topmark}%
19196 \xdef\@firstcoltopmark{\the\toks@}%
19197 \toks@\expandafter{\splitfirstmark}%
19198 \xdef\@firstcolfirstmark{\the\toks@}%
19199 \ifx\@firstcolfirstmark\@empty
19200 \global\let\@setmarks\relax

```



```

19201 \else
19202 \gdef\@setmarks{%
19203 \let\firstmark\@firstcolfirstmark
19204 \let\topmark\@firstcoltopmark}%
19205 \fi
19206 \global\c@colht\@colht\global\c@addvipersep\z@
19207 \ifnum\juo@sk>0
19208 \remove@strip\juo@sar
19209 \global\@colht\the\juo@pr
19210 \ifdim\right@cor>\z@
19211 \global\advance\@colht by\right@cor
19212 \fi
19213 \global\advance\@colht by\cor@height
19214 \global\cor@height=0pt
19215 \fi
19216 \global \setbox\@rightcolumn \vbox{%
19217 \else
19218 \ifdim\c@colht>\@colht
19219 \@tempdima\@colht
19220 \ifdim\@colht>\z@
19221 \global\setbox\@rightcolumn \vbox{%
19222 \unvbox\@rightcolumn
19223 \vbox to\@tempdima{%
19224 \vskip\c@addvipersep\unvbox\@outputbox}%
19225 \vskip\stripsep
19226 \vrule height\the\juo@ht width 0pt depth 0pt
19227 \vskip\stripsep
19228 }%
19229 \global\c@addvipersep\m@addvipersep
19230 \else
19231 \global\setbox\@rightcolumn \vbox{%
19232 \unvbox\@rightcolumn
19233 \vrule height\the\juo@ht width 0pt depth 0pt
19234 \vskip\stripsep
19235 }%
19236 \fi
19237 \ifnum\juo@sk>0
19238 \remove@strip\juo@sar
19239 \global\@colht\the\juo@pr
19240 \global\advance\@colht by-\ht\@rightcolumn
19241 \global\advance\@colht by\cor@height
19242 \global\cor@height=0pt
19243 \else
19244 \global\advance\c@colht by-\ht\@rightcolumn
19245 \global\@colht\c@colht
19246 \fi
19247 \else
19248 \global\@firstcolumntrue
19249 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19250 \unvbox\@rightcolumn
19251 \vskip\c@addvipersep
19252 \unvbox\@outputbox
19253 }%
19254 \setbox\@outputbox \vbox {%

```





```

19255         \hb@xt@\textwidth {%
19256         \hskip \columnwidth
19257         \hfil
19258         \vrule \@width\columnseprule
19259         \hfil
19260         \hb@xt@\columnwidth {%
19261         \bidi@firstcolumn@status@write%
19262         \box\@leftcolumn \hss}%
19263         \hskip-\textwidth
19264         \hb@xt@\columnwidth {%
19265         \bidi@lastcolumn@status@write%
19266         \box\@outputbox \hss}%
19267         \hskip\columnwidth
19268         \hskip\columnsep}%
19269         }%
19270 \@@combinedblfloats
19271 \@@setmarks
19272 \@@outputpage
19273 \begin@group
19274 \@@dblfloatplacement
19275 \@@startdblcolumn
19276 \@@whilesw@if@fcolmade \fi
19277     {\@outputpage
19278     \@@startdblcolumn}%
19279 \end@group
19280 \global\jua@sk=0\global\jua@sar={}%
19281 \global\cor@height\z@\global\c@advipersep\z@
19282 \fi
19283 \fi
19284 }
19285
19286
19287 \def\LTR@outputdblcol{%
19288 \if@firstcolumn
19289 \global \@@firstcolumnfalse
19290 \global\setbox\@leftcolumn\copy\@outputbox
19291 \splitmaxdepth\maxdimen
19292 \vbadness\maxdimen
19293 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19294 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19295 \toks@\expandafter{\topmark}%
19296 \xdef\@firstcoltopmark{\the\toks@}%
19297 \toks@\expandafter{\splitfirstmark}%
19298 \xdef\@firstcolfirstmark{\the\toks@}%
19299 \ifx\@firstcolfirstmark\@empty
19300 \global\let\@@setmarks\relax
19301 \else
19302 \gdef\@@setmarks{%
19303 \let\firstmark\@firstcolfirstmark
19304 \let\topmark\@firstcoltopmark}%
19305 \fi
19306 \global\c@colht\@colht\global\c@advipersep\z@
19307 \ifnum\jua@sk>0
19308 \remove@strip\jua@sar

```



```

19309     \global\@colht\the\juo@pr
19310     \ifdim\right@cor>\z@
19311         \global\advance\@colht by\right@cor
19312     \fi
19313     \global\advance\@colht by\cor@height
19314     \global\cor@height=0pt
19315 \fi
19316 \global \setbox\@rightcolumn \vbox{}%
19317 \else
19318     \ifdim\c@colht>\@colht
19319         \@tempdima\@colht
19320         \ifdim\@colht>\z@
19321             \global\setbox\@rightcolumn \vbox{%
19322                 \unvbox\@rightcolumn
19323                 \vbox to\@tempdima{%
19324                     \vskip\c@addvipersep\unvbox\@outputbox}%
19325                 \vskip\stripsep
19326                 \vrule height\the\juo@ht width 0pt depth 0pt
19327                 \vskip\stripsep
19328                 }%
19329             \global\c@addvipersep\m@addvipersep
19330         \else
19331             \global\setbox\@rightcolumn \vbox{%
19332                 \unvbox\@rightcolumn
19333                 \vrule height\the\juo@ht width 0pt depth 0pt
19334                 \vskip\stripsep
19335                 }%
19336         \fi
19337     \ifnum\juo@sk>0
19338         \remove@strip\juo@sar
19339         \global\@colht\the\juo@pr
19340         \global\advance\@colht by -\ht\@rightcolumn
19341         \global\advance\@colht by\cor@height
19342         \global\cor@height=0pt
19343     \else
19344         \global\advance\c@colht by-\ht\@rightcolumn
19345         \global\@colht\c@colht
19346     \fi
19347 \else
19348     \global\@firstcolumntrue
19349     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19350         \unvbox\@rightcolumn
19351         \vskip\c@addvipersep
19352         \unvbox\@outputbox
19353     }%
19354     \setbox\@outputbox \vbox {%
19355         \hb@xt@\textwidth {%
19356             \hb@xt@\columnwidth {%
19357                 \bidi@firstcolumn@status@write%
19358                 \box\@leftcolumn \hss}%
19359             \hfil
19360             \vrule \@width\columnseprule
19361             \hfil
19362             \hb@xt@\columnwidth {%

```



```

19363             \bidi@lastcolumn@status@write%
19364             \box\@outputbox \hss}%
19365             }%
19366         }%
19367     \@combinedblfloats
19368     \@setmarks
19369     \@outputpage
19370     \begingroup
19371         \dblfloatplacement
19372         \@startdblcolumn
19373         \@whilesw\if@fcolmade \fi
19374         {\@outputpage
19375         \@startdblcolumn}%
19376     \endgroup
19377     \global\jua@sk=0\global\jua@sar={}%
19378     \global\cor@height\z@\global\c@advipersep\z@
19379     \fi
19380 \fi
19381 }
19382
19383
19384 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19385     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19386         \hsize\textwidth
19387         \@parboxrestore
19388         \col@number \@ne
19389         \vrule height\topskip width0pt depth0pt
19390 }
19391
19392 \def\endstrip{%
19393     \egroup\egroup
19394     \if@firstcolumn
19395         \ifdim\pagetotal>\z@
19396             \vskip\stripsep
19397             \global\ht@strip\pagegoal
19398             \global\advance\ht@strip by-\pagetotal
19399             \global\advance\ht@strip by-\stripsep
19400             \global\advance\ht@strip by-\ht\@viper
19401             \global\advance\ht@strip by-\stripsep
19402             \global\jua@ht=\ht\@viper
19403         \else
19404             \global\ht@strip\z@
19405         \fi
19406     \ifdim\ht@strip>\z@
19407         \unvbox\@viper
19408         \vskip\stripsep
19409         \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19410         \global\advance\jua@sk by1
19411     \else
19412         \@latex@error{Strip needs more place!}\@ehc
19413     \if@vihproof
19414         \framebox[\columnwidth]{??? Strip ???}%
19415     \fi
19416 \fi

```



```

19417     \else
19418     \latexerror{Strip is used only on left column!}\@ehc
19419     \ifviihproof
19420     \framebox[\columnwidth]{??? Strip ???}%
19421     \fi
19422     \fi
19423 }

```

## 117 File minitoc-xetex-bidi.def

```

19424 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19425 \def\@undottedtocline#1#2#3#4#5{%
19426 \ifnum #1>\c@tocdepth\relax \else
19427 \vskip \z@ plus.2\p@
19428 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmarg
19429 \parindent #2\relax\@afterindenttrue
19430 \interlinepenalty\@M
19431 \leavevmode
19432 \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19433 \hskip -\if@RTL\rightskip\else\leftskip\fi
19434 #4\nobreak\hfill \nobreak
19435 \null\par}%
19436 \fi}
19437 \def\@Undottedtocline#1#2#3#4#5{%
19438 \ifnum #1>\c@tocdepth\relax \else
19439 \vskip \z@ \@plus.2\p@
19440 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
19441 \parindent #2\relax\@afterindenttrue
19442 \interlinepenalty\@M
19443 \leavevmode
19444 \@tempdima #3\relax
19445 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19446 {\coffeesfont #4}\nobreak \nobreak\null
19447 \par}%
19448 \fi}
19449 \def\@Undottedtoclinep#1#2#3#4#5{%
19450 \ifnum #1>\c@tocdepth\relax \else
19451 \vskip \z@ \@plus.2\p@
19452 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
19453 \parindent #2\relax\@afterindenttrue
19454 \interlinepenalty\@M
19455 \leavevmode
19456 \@tempdima #3\relax
19457 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19458 {#4}\nobreak \hfill \nobreak\null
19459 \hbext@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19460 \par}%
19461 \fi}

```

## 118 File multicol-xetex-bidi.def

```

19462 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package
19463 \def\page@sofar{%
19464 \process@cols\mult@rightbox

```



```

19465     {\ifvoid\count@
19466       \setbox\count@\hbox to\hsize{}}%
19467     \else
19468       \wd\count@\hsize
19469     \fi}%
19470 \count@\col@number \advance\count@\m@ne
19471 \mult@info\z@
19472 {Column spec: \the\full@width\space = indent
19473             + columns + sep =\MessageBreak
19474     \the\multicol@leftmargin\space
19475     + \the\col@number\space
19476     x \the\hsize\space
19477     + \the\count@\space
19478     x \the\columnsep
19479     }%
19480 \ifvmode\else\errmessage{Multicol Error}\fi
19481 \nointerlineskip
19482 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19483 \moveright\multicol@leftmargin
19484 \hbox to\full@width{%
19485     \bidi@multicol@align@columns
19486     \rlap{\phantom p}}%
19487 }%
19488 \prevdepth\z@
19489 \kern-\dimen\tw@
19490 \ifdim\dimen\tw@ > \mc@gridwarn
19491   \PackageWarning{multicol}%
19492     {Very deep columns!\MessageBreak
19493     Grid alignment might be broken}%
19494 \fi
19495 }
19496 \def\LTR@column@boxes{%
19497   \process@cols\mult@firstbox{%
19498     \ifdim\dp\count@>\dimen\tw@
19499     \global\dimen\tw@\dp\count@ \fi
19500     \mc@col@status@write
19501     \box\count@
19502     \hss{\columnseprulecolor\vrule
19503         \@width\columnseprule}\hss}%
19504   \ifdim\dp\mult@rightbox>\dimen\tw@
19505     \global\dimen\tw@\dp\mult@rightbox \fi
19506   \mc@lastcol@status@write
19507   \box\mult@rightbox
19508 }
19509
19510 \def\RTL@column@boxes{%
19511   \process@cols\mult@firstbox{%
19512     \hskip\hsize
19513     \hss{\columnseprulecolor\vrule
19514         \@width\columnseprule}\hss
19515   }%
19516   \hskip\hsize
19517   \process@cols\mult@firstbox{%
19518     \ifdim\dp\count@>\dimen\tw@

```



```

19519     \global\dimen\tw@dp\count@ \fi
19520     \hskip-\hszize
19521     \mc@col@status@write
19522     \box\count@
19523     \hskip-\hszize
19524     \hskip-\columnsep
19525   }%
19526   \ifdimdp\mult@rightbox>\dimen\tw@
19527     \global\dimen\tw@dp\mult@rightbox \fi
19528   \hskip-\hszize
19529   \mc@lastcol@status@write
19530   \box\mult@rightbox
19531   \hskip-\hszize
19532   \hskip\full@width
19533 }
19534
19535 \newcommand\RTLmulticolcolumns
19536   {\let\ bidi@multicol@align@columns
19537     \RTL@column@boxes}
19538 \newcommand\LTRmulticolcolumns
19539   {\let\ bidi@multicol@align@columns
19540     \LTR@column@boxes}
19541 \newcommand\ bidi@multicol@align@columns
19542   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19543 \ bidi@AtEndPreamble{%
19544   \if@ bidi@csdef{footinsv1}{%
19545     \def\footnoterule{\kern-3\p@
19546       \hrule \@width \textwidth \kern 2.6\p@}%
19547   }{}%
19548 }
19549 \def\multicols#1{\col@number#1\relax
19550   \ifnum\col@number<\tw@
19551     \PackageWarning{multicol}%
19552       {Using \number\col@number'
19553         columns doesn't seem a good idea.^~J
19554         I therefore use two columns instead}%
19555     \col@number\tw@ \fi
19556   \ifnum\col@number>20
19557     \PackageError{multicol}%
19558       {Too many columns}%
19559     {Current implementation doesn't
19560       support more than 20 columns.%
19561     \MessageBreak
19562     I therefore use 20 columns instead}%
19563   \col@number20 \fi
19564   \ifx\@footnotetext\mult@footnotetext
19565   \else
19566     \let\orig@footnotetext\@footnotetext
19567     \let\@footnotetext\mult@footnotetext
19568   \fi
19569   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19570   \else
19571     \let\orig@LTRfootnotetext\@LTRfootnotetext
19572     \let\@LTRfootnotetext\mult@LTRfootnotetext

```



```

19573     \fi
19574     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19575     \else
19576         \let\orig@RTLfootnotetext\@RTLfootnotetext
19577         \let\@RTLfootnotetext\mult@RTLfootnotetext
19578     \fi
19579     \@ifnextchar[\mult@cols{\mult@cols[]}]
19580 \long\def\mult@footnotetext#1{\begingroup
19581     \hsize\textwidth
19582     \columnwidth\textwidth
19583     \orig@footnotetext{#1}\endgroup}
19584 \long\def\mult@LTRfootnotetext#1{\begingroup
19585     \hsize\textwidth
19586     \columnwidth\textwidth
19587     \orig@LTRfootnotetext{#1}\endgroup}
19588 \long\def\mult@RTLfootnotetext#1{\begingroup
19589     \hsize\textwidth
19590     \columnwidth\textwidth
19591     \orig@RTLfootnotetext{#1}\endgroup}
19592 \def\right@footnoterule{%
19593     \kern-3\p@
19594     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19595     \kern2.6\p@}
19596 \def\textwidth@footnoterule{\kern-3\p@
19597     \hrule \@width \textwidth \kern 2.6\p@}
19598 \def\@bidi@leave@mult@copyins{%
19599     \advance\dimen@-\skip\@bidi@copyins@
19600     \advance\dimen@-\ht\@bidi@copyins@
19601 }
19602
19603 \bidi@AtEndPreamble{%
19604     \if@bidi@csundef{footinsv@1}{%
19605         \bidi@patchcmd{\multi@column@out}{%
19606             \ifvbox \@kludgeins
19607             }{%
19608                 \ifvoid\@bidi@copyins@ \else
19609                     \bidi@leave@mult@copyins
19610                 }
19611             \ifvbox \@kludgeins
19612             }{}%
19613         }{}%
19614     }
19615
19616

```

## 119 File multienum-xetex-bidi.def

```

19617 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19618 \renewcommand{\itemx}[1]{\parbox[t]%
19619 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19620 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}\smallskip
19621 \renewcommand{\itemxx}[2]{\parbox[t]%
19622 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19623 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%

```



```

19624 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19625 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19626 \renewcommand{\itemxxx}[3]{\parbox[t]%
19627 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19628 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19629 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
19630 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19631 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19632 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19633 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19634 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19635 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19636 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19637 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19638 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19639 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19640 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19641 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19642 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
19643 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19644 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19645 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19646 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19647 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19648 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19649 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19650 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
19651 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19652 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
19653 \renewcommand{\itemxox}[2]{\parbox[t]%
19654 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19655 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19656 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19657 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19658 \renewcommand{\itemxox}[2]{\parbox[t]%
19659 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19660 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19661 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19662 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19663 \renewcommand{\itemxox}[3]{\parbox[t]%
19664 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19665 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19666 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19667 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19668 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19669 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19670 \renewcommand{\itemxox}[3]{\parbox[t]%
19671 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19672 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19673 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19674 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19675 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19676 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19677 \renewcommand{\itemxxxo}[3]{\parbox[t]%

```





```

19678 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19679 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19680 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19681 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19682 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19683 \parbox[t]{\remainxxxx}{\bidi@raggedright #3}\smallskip}

```

## 120 File natbib-xetex-bidi.def

```

19684 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19685 \renewenvironment{thebibliography}[1]{%
19686 \bibsection
19687 \parindent\z@
19688 \bibpreamble
19689 \bibfont
19690 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTLBibitems\@RTLtrue\else\fi\fi
19691 \bidi@thebibliography@font@hook%
19692 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19693 \ifNAT@openbib
19694 \renewcommand\newblock{\par}%
19695 \else
19696 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19697 \fi
19698 \sloppy\clubpenalty4000\widowpenalty4000
19699 \sfcode\.\@m
19700 \let\NAT@bibitem@first@sw\@firstoftwo
19701 \let\citeN\cite \let\shortcite\cite
19702 \let\citeasnoun\cite
19703 }{%
19704 \bibitem@fin
19705 \bibpostamble
19706 \def\@noitemerr{%
19707 \PackageWarning{natbib}{Empty `thebibliography' environment}%
19708 }%
19709 \endlist
19710 \bibcleanup
19711 }%

```

## 121 File newfloat-xetex-bidi.def

```

19712 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package
19713 \renewcommand*\newfloat@setwithin[2]{%
19714 \ifcsname c@chapter\endcsname
19715 \@removefromreset{#1}{chapter}%
19716 \fi
19717 \@removefromreset{#1}{section}%
19718 \edef\@tempa{#2}%
19719 \ifx\@tempa\@empty
19720 \def\@tempa{none}%
19721 \fi
19722 \def\@tempb{none}%
19723 \ifx\@tempa\@tempb
19724 \ifcsname c@chapter\endcsname
19725 \@chapterlistsgap@off{#1}%

```



```

19726   \fi
19727   \newfloat@setwithin{#1}{-}{-}%
19728 \else
19729   \def\@tempb{chapter}%
19730   \ifx\@tempa\@tempb
19731     \@addtoreset{#1}{chapter}%
19732     \@chapterlistsgap@on{#1}%
19733     \newfloat@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19734   \else
19735     \def\@tempb{section}%
19736     \ifx\@tempa\@tempb
19737       \@addtoreset{#1}{section}%
19738       \ifcsname c@chapter\endcsname
19739         \@addtoreset{#1}{chapter}%
19740         \@chapterlistsgap@on{#1}%
19741         \newfloat@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19742     \else
19743       \newfloat@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
19744     \fi
19745   \else
19746     \newfloat@Error{Invalid value `#2' for option `within'}%
19747   \fi
19748 \fi
19749 \fi}

```

## 122 File `nicematrix-xetex-bidi.def`

```

19750 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
19751 \ExplSyntaxOn
19752 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19753   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19754   \@tabarray
19755 }{-}{-}
19756 \ExplSyntaxOff
19757

```

## 123 File `ntheorem-xetex-bidi.def`

```

19758 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package
19759 \gdef\@thm#1#2#3{%
19760   \if@thmmarks
19761     \stepcounter{end\InTheoType ctr}%
19762   \fi
19763   \renewcommand{\InTheoType}{#1}%
19764   \if@thmmarks
19765     \stepcounter{curr#1ctr}%
19766     \setcounter{end#1ctr}{0}%
19767   \fi
19768   \refstepcounter{#2}%
19769   \theorem@prework
19770   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
19771   \ifvmode \advance\thm@topsepadd\partopsep\fi
19772   \@trivlist
19773   \@topsep \theorem@preskipamount

```



```

19774 \topsepadd \thm@topsepadd % used by \@endparenv
19775 \advance\linewidth -\theorem@indent
19776 \advance\totalleftmargin \theorem@indent
19777 \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19778 \ifnextchar [\@yhtm{#1}{#2}{#3}]{\@xhtm{#1}{#2}{#3}}

```

## 124 File ntheorem-hyper-xetex-bidi.def

```

19779 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
19780 \gdef\@thm#1#2#3{%
19781 \if@thmmarks
19782 \stepcounter{end\InTheoType ctr}%
19783 \fi
19784 \renewcommand{\InTheoType}{#1}%
19785 \if@thmmarks
19786 \stepcounter{curr#1ctr}%
19787 \setcounter{end#1ctr}{0}%
19788 \fi
19789 \refstepcounter{#2}%
19790 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19791 \ifvmode \advance\thm@topsepadd\partopsep\fi
19792 \trivlist
19793 \@topsep \theorempreskipamount
19794 \topsepadd \thm@topsepadd % used by \@endparenv
19795 \advance\linewidth -\theorem@indent
19796 \advance\totalleftmargin \theorem@indent
19797 \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19798 \ifnextchar [\@yhtm{#1}{#2}{#3}]{\@xhtm{#1}{#2}{#3}}

```

## 125 File overpic-xetex-bidi.def

```

19799 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19800 \renewenvironment{overpic}[2] []{%
19801 \sbox{\z@}{\includegraphics[#1]{#2}}%
19802 \settodepth{\@tempcnta}{\usebox{\z@}}%
19803 \settoheight{\@tempcntb}{\usebox{\z@}}%
19804 \advance\@tempcntb\@tempcnta%
19805 \settowidth{\@tempcnta}{\usebox{\z@}}%
19806 \setlength{\@tempdima}{\unitlength}%
19807 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19808 %
19809 \OVP@calc%
19810 %
19811 \begin{picture}(\@tempcnta,\@tempcntb)%
19812 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19813 \ifGin@grid%
19814 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19815 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19816 \fi\fi%
19817 % reset the graphics parameter
19818 \let\Gin@outer@scalex\relax
19819 \let\Gin@outer@scaley\relax
19820 \let\Gin@angle\relax
19821 \let\Gin@ewidth\Gin@exclamation

```



```

19822 \let\Gin@eheight\Gin@ewidth
19823 \def\Gin@scalex{1}
19824 \let\Gin@scaley\Gin@exclamation
19825 }{%
19826 \if@RTL\ifGin@grid%
19827 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19828 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19829 \fi%
19830 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19831 \end{picture}%
19832 }%

```

## 126 File pdfbase-xetex-bidi.def

```

19833 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19834 \ExplSyntaxOn
19835 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19836 \cs_set_nopar:Npn\@outputpage{
19837 \int_gincr:N\g_pbs_page_int
19838 \box_if_vertical:cTF{\outputbox}{
19839 \bool_set_true:N\l_pbs_is_vertical_bool
19840 }{
19841 \bool_set_false:N\l_pbs_is_vertical_bool
19842 }
19843 \hbox_set:Nn\@outputbox{
19844 %begin of page
19845 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19846 \box_use_drop:N\@outputbox
19847 %end of page
19848 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19849 }
19850 \bool_if:NT\l_pbs_is_vertical_bool{
19851 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19852 }
19853 \pbs_outputpage_orig:
19854 }
19855 \ExplSyntaxOff

```

## 127 File pdfscape-xetex-bidi.def

```

19856 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
19857 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19858 \if@RTL
19859 \PLS@Rotate{-90}%
19860 \else
19861 \PLS@Rotate{90}%
19862 \fi
19863 }{-}

```

## 128 File pdfpages-xetex-bidi.def

```

19864 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
19865 \renewcommand*{\includepdf}[2][ ]{%
19866 \begingroup

```



```

19867 \@RTLfalse
19868 \let\AM@threadname\relax
19869 \AM@split@options{pdfpages}{#1}%
19870 \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
19871 \expandafter\setkeys\AM@temp
19872 \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
19873   \let\AM@currentdocname\relax
19874   \renewcommand\includegraphics[2][]{Survey in draft-mode}%
19875   \def\AM@pagecount{0}%
19876 }{%
19877   \AM@findfile{#2}%
19878   \if\AM@threadname\relax
19879     \def\AM@threadname{\AM@currentdocname}%
19880   \fi
19881 }%
19882 \ifAM@survey
19883   \def\AM@pagestemp{}%
19884   \@tempcnta=0
19885   \def\foo{%
19886     \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
19887       {\let\foo\relax}
19888     {\expandafter\ifx\expandafter\\AM@pagestemp\\
19889       \edef\AM@pagestemp{%
19890         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
19891       \else
19892         \edef\AM@pagestemp{\AM@pagestemp,%
19893           \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
19894       \fi
19895       \advance\@tempcnta 1\relax
19896     }%
19897     \foo
19898   }%
19899   \foo
19900   \expandafter\ifx\expandafter\\AM@pagestemp\\
19901     \def\AM@pagestemp{1}%
19902   \fi
19903 \fi
19904 \ifAM@output
19905   \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
19906   \AM@output{#1}%
19907 \fi
19908 \AM@CheckAtEnd
19909 \endgroup
19910 \AM@ClearShipoutPicture
19911 }

```

## 129 File pgfcorescopes.code-xetex-bidi.def

```

19912 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19913 \def\pgfpicture{%
19914   \begingroup%
19915   \ifmode\else\@RTLfalse\beginL\fi%
19916   \pgfpicturetrue%
19917   \global\advance\pgf@picture@serial@count by1\relax%

```



```

19918 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19919 \let\pgf@nodecallback=\pgfutil@gobble%
19920 \pgf@picmaxx=-16000pt\relax%
19921 \pgf@picminx=16000pt\relax%
19922 \pgf@picmaxy=-16000pt\relax%
19923 \pgf@picminy=16000pt\relax%
19924 \pgf@relevantforpicturesizetrue%
19925 \pgf@resetpathsizes%
19926 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19927 \def\endpgfpicture{%
19928     \ifpgfrememberpicturerepositiononpage%
19929     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19930     \fi%
19931     % ok, now let's position the box
19932     \ifdim\pgf@picmaxx=-16000pt\relax%
19933     % empty picture. make size 0.
19934     \global\pgf@picmaxx=0pt\relax%
19935     \global\pgf@picminx=0pt\relax%
19936     \global\pgf@picmaxy=0pt\relax%
19937     \global\pgf@picminy=0pt\relax%
19938     \fi%
19939     % Shift baseline outside:
19940     \pgf@relevantforpicturesizefalse%
19941     \pgf@process{\pgf@baseline}%
19942     \xdef\pgf@shift@baseline{\the\pgf@y}%
19943     %
19944     \pgf@process{\pgf@trimleft}%
19945     \global\advance\pgf@x by-\pgf@picminx
19946     % prepare \hskip\pgf@trimleft@final.
19947     % note that \pgf@trimleft@final is also queried
19948     % by the pgf image externalization.
19949     \xdef\pgf@trimleft@final{-\the\pgf@x}%
19950     %
19951     \pgf@process{\pgf@trimright}%
19952     \global\advance\pgf@x by-\pgf@picmaxx
19953     % prepare \hskip\pgf@trimright@final.
19954     % note that \pgf@trimright@final is also queried
19955     % by the pgf image externalization.
19956     \xdef\pgf@trimright@final{\the\pgf@x}%
19957     %
19958     \pgf@remember@layerlist@globally
19959     \endgroup%
19960     \hss%
19961     \egroup%
19962     \pgf@restore@layerlist@from@global
19963     \pgf@insertlayers%
19964     \endgroup%
19965     \pgfsys@discardpath%
19966     \endgroup%
19967     \pgfsys@endscope%
19968     \pgfsys@endpicture%
19969     \endgroup%
19970     \hss
19971 \egroup%

```



```

19972 \pgfsys@typesetpicturebox\pgfpic%
19973 \ifmmode\else\endL\fi%
19974 \endgroup%
19975 }

```

### 130 File pgfsys-xetex-bidi.def

```

19976 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19977 \def\pgfsys@shadingoutsidepgfpicture#1{%
19978 \beginL#1\endL%
19979 }
19980
19981

```

### 131 File picinpar-xetex-bidi.def

```

19982 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19983 \long\def\@makewincaption#1#2{%
19984 \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19985 \ifdim\wd\@tempboxa>\picwd
19986 {\footnotesize{\bf #1:\enspace}{#2\par}}
19987 \else
19988 \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19989 \fi}
19990 \def\endwindow{%
19991 \global\tcd=\tcdsav
19992 \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19993 \vbadness=10000
19994 \splittopskip=0pt
19995 %
19996 % Typeset the lines above the window
19997 %
19998 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19999 \tcn=\tcd
20000 \loop\advance\tcn -1
20001 \setbox\fslice=\vsplit\holder to\baselineskip
20002 \prune\fslice\linewidth
20003 \topheight=0pt
20004 \ifnum\dp\fslice>\dp\wstrutbox
20005 \advance\topheight-\dp\fslice
20006 \advance\topheight\dp\wstrutbox
20007 \advance\topheight\ilg\fi
20008 \hbox to\linewidth{\box\fslice}
20009 \vskip-\topheight
20010 \ifdim\ht\holder>0pt\repeat
20011 \fi
20012 %
20013 % Now we build the boxes beside the window
20014 %
20015 \global\topheight=\tcl\baselineskip
20016 \ifnum\cumpartcl>0\global\tcl=\cumtcl
20017 \global\topheight=\vpic
20018 \fi
20019 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi

```



```

20020 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
20021 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
20022 \tcn=\tcl \na=0 \nb=0
20023 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20024 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
20025 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20026 \ifnum\na=0\ifnum\nb=0
20027     \setbox\waslice=\vbox to\vpic{\vss}
20028     \setbox\wbslice=\vbox to\vpic{\vss}
20029     \bl=1\br=1
20030     \vskip\ilg
20031 \fi\fi
20032 %
20033 % both sides
20034 %
20035 \ifnum\na>0 \ifnum\nb>0
20036 \loop\advance\nb -1
20037 \advance\na -1
20038 \if@RTL%
20039 \setbox\bslice=\vsplit\holder to\baselineskip
20040 \prune\bslice\rtside
20041 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20042 to\rtside{\box\bslice\hfil}}
20043 \setbox\aslice=\vsplit\holder to\baselineskip
20044 \prune\aslice\lftside
20045 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20046 to\lftside{\box\aslice\hfil}}
20047 \else%
20048 \setbox\aslice=\vsplit\holder to\baselineskip
20049 \prune\aslice\lftside
20050 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20051 to\lftside{\box\aslice\hfil}}
20052 \setbox\bslice=\vsplit\holder to\baselineskip
20053 \prune\bslice\rtside
20054 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20055 to\rtside{\box\bslice\hfil}}
20056 \fi%
20057 \ifnum\nb>0\repeat
20058 \fi\fi
20059 %
20060 % only text on the left side
20061 %
20062 \ifnum\na>0
20063     \loop\advance\na -1
20064     \setbox\aslice=\vsplit\holder to\baselineskip
20065     \prune\aslice\lftside
20066     \setbox\waslice=\vbox{\unvbox\waslice\hbox
20067 to\lftside{\box\aslice\hfil}}
20068     \ifdim\ht\holder>0pt\repeat
20069 \fi
20070 %
20071 % only text on the right side
20072 %
20073 \ifnum\nb>0

```





```

20074 \loop\advance\nb -1
20075 \setbox\bslice=\vsplit\holder to\baselineskip
20076 \prune\bslice\rtside
20077 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20078 to\rtside{\box\bslice\hfil}}
20079 \ifdim\ht\holder>0pt\repeat
20080 \fi
20081 %
20082 % fixing the dimensions of the window part
20083 %
20084 \ifnum\bl=0\topheight=\ht\wbslice
20085 \else\ifnum\br=0\topheight=\ht\waslice
20086 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20087 \else\topheight=\ht\wbslice\fi\fi\fi
20088 %
20089 % ship out the window material to the main vertical list
20090 %
20091 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20092 \setbox\wbslice=\vbox to\topheight{\box\wbslice\fill}
20093 \fi\fi\fi
20094 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20095 \ifnum\bl>0\box\waslice\hfill\fi%
20096 \vbox to\topheight{\hrule width\picwd heightOpt depthOpt\vskipOpt%
20097 \fill\unvbox\picbox%
20098 \ifnum\picwd>0\fill\fi%
20099 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20100 \unvbox>windowbox%
20101 \loop
20102 \setbox\bslice=\vsplit\rawtext to\baselineskip
20103 \prune\bslice\linewidth
20104 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20105 \unvbox\wbslice
20106 \ifdim\ht\rawtext>0pt
20107 \repeat
20108 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

20109 \def\TeXeTOn{\TeXeTstate=1 }
20110 \def\TeXeTOff{\TeXeTstate=0 }
20111 \TeXeTOn
20112 \def\usebox#1{\leavevmode\copy #1\relax}
20113 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20114 \let\bidi@o@everypar=\everypar
20115 \newtoks\bidi@n@everypar
20116 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
20117 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
20118 \let\everypar=\bidi@n@everypar
20119 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20120 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20121 \protected\def\hboxR{\hbox\bgroup
20122 \everyhbox{%
20123 \aftergroup\egroup
20124 \everyhbox{}}%

```



```

20125 \beginR
20126 \@hboxRconstructtrue
20127 \bgroup
20128 \aftergroup\endR
20129 \aftergroup\egroup
20130 }\hbox}
20131 \protected\def\hboxL{\hbox\bgroup
20132 \everyhbox{%
20133 \aftergroup\egroup
20134 \everyhbox{}}%
20135 \beginL
20136 \@hboxRconstructfalse
20137 \bgroup
20138 \aftergroup\endL
20139 \aftergroup\egroup
20140 }\hbox}
20141 \protected\def\vboxR{\vbox\bgroup
20142 \everyvbox{%
20143 \aftergroup\egroup
20144 \everyvbox{}}%
20145 \@RTLtrue
20146 \bgroup
20147 \aftergroup\egroup
20148 }\vbox}
20149 \protected\def\vboxL{\vbox\bgroup
20150 \everyvbox{%
20151 \aftergroup\egroup
20152 \everyvbox{}}%
20153 \@RTLfalse
20154 \bgroup
20155 \aftergroup\egroup
20156 }\vbox}
20157 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20158 \def\endLTR{\par}
20159 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20160 \def\endRTL{\par}
20161 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20162 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20163 \let\unsetRTL=\setLTR
20164 \let\unsetLTR=\setRTL
20165 \let\LR=\LRE
20166 \let\RL=\RLE
20167 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20168 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20169 \let\@ensure@RL=\@ensure@RTL
20170 \let\@ensure@LR=\@ensure@LTR
20171 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20172 \let\@ensure@maindir=\@ensure@dir
20173 \def\@RTL{RTL}
20174 \def\@LTR{LTR}
20175 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20176 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20177 \let\@TeX\TeX
20178 \def\TeX{\@ensure@LTR{\@TeX}}

```



```

20179 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20180 \dimen@=\dp\cclv\unvbox\cclv % open up \box255
20181 \ifvoid\footins\else % footnote info is present
20182 \vskip\skip\footins
20183 \footnoterule
20184 \unvbox\footins\fi
20185 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
20186 \ifvoid\@bidi@copyins@
20187 \else
20188 \vskip\skip\@bidi@copyins@
20189 \unvbox\@bidi@copyins@
20190 \fi
20191 }
20192 \long\def\@bidi@reflect@box#1{%
20193 \leavevmode
20194 \setbox\z@\hbox{#1}%
20195 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20196 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20197 }
20198 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20199 \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20200 \let\setRL=\setRTL
20201 \let\setLR=\setLTR
20202 \let\unsetRL=\setLTR
20203 \let\@bidi@samed@eqno=\eqno
20204 \let\@bidi@samed@leqno=\leqno
20205 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@leqno \else \@bidi@samed@eqno \fi}
20206 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@leqno \else \@bidi@samed@eqno \fi}
20207 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20208 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20209 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

### 133 File pstricks-xetex-bidi.def

```

20210 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20211 \bidi@patchcmd\pspicture\begingroup{%
20212 \begingroup
20213 \ifmmode
20214 \else
20215 \@RTLfalse
20216 \beginL
20217 \fi
20218 }{\@bidi@warningnoline{Oops! patching `string\pspicture' failed}}
20219
20220 \bidi@patchcmd\endpspicture{%
20221 \endgroup
20222 \psset[pstricks]{shift=0}% reset value
20223 }{%
20224 \ifmmode
20225 \else
20226 \endL
20227 \fi
20228 \endgroup
20229 \psset[pstricks]{shift=0}% reset value

```



```

20230 }{}{\bidi@warningnoline{Oops! patching `string\endpspicture' failed}}
20231
20232 \bidi@patchcmd\@scalebox{%
20233   \special{x: bscale \pst@tempc \pst@tempd}%
20234   \hbox to \z@\box\pst@hbox\hss}%
20235   \special{x: escale}%
20236 }{}%
20237 \if@RTL
20238   \special{x: escale}%
20239 \else
20240   \special{x: bscale \pst@tempc \pst@tempd}%
20241 \fi
20242 \hbox to \z@\box\pst@hbox\hss}%
20243 \if@RTL
20244   \special{x: bscale \pst@tempc \pst@tempd}%
20245 \else
20246   \special{x: escale}%
20247 \fi
20248 }{}{\bidi@warningnoline{Oops! patching `string\@scalebox' failed}}
20249 \let\ps@scalebox\@scalebox
20250

```

## 134 File quotchap-xetex-bidi.def

```

20251 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20252 \renewcommand{\qauthor}[1]{%
20253   \par\smallskip
20254   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
20255 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20256   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20257     {\chapnumfont
20258       \ifnum \c@secnumdepth >\m@ne%
20259         \if@mainmatter\thechapter%
20260         \fi\fi
20261         \par\nobreak}%
20262     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20263     \nobreak\chapterheadendvskip}}
20264 \renewcommand*{\@iprintcites}{%
20265   \vbox to \z@\{\leavevmode\copy\@quotebox\vss}
20266   \global\let\@printcites\relax}

```

## 135 File ragged2e-xetex-bidi.def

```

20267 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20268 \renewcommand{\Centering}{%
20269   \ifx\\ \@raggedtwoe@savedcr
20270     \let\\ \@centercr
20271   \fi
20272   \let\@gnewline\@raggedtwoe@gnewline
20273   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
20274   \@rightskip\CenteringRightskip
20275   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20276   \parfillskip\CenteringParfillskip
20277   \parindent\CenteringParindent

```



```

20278 \@raggedtwo@spaceskiptrue
20279 \@raggedtwo@everyselectfont
20280 }
20281 \renewcommand{\RaggedLeft}{%
20282 \ifx\\ \@raggedtwo@savedcr
20283 \let\\ @centercr
20284 \fi
20285 \let@gnewline \@raggedtwo@gnewline
20286 \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
20287 \@rightskip\RaggedLeftRightskip
20288 \if@RTL\leftskip\else\rightskip\fi@rightskip
20289 \parfillskip\RaggedLeftParfillskip
20290 \parindent\RaggedLeftParindent
20291 \@raggedtwo@spaceskiptrue
20292 \@raggedtwo@everyselectfont
20293 }
20294 \renewcommand{\RaggedRight}{%
20295 \ifx\\ \@raggedtwo@savedcr
20296 \let\\ @centercr
20297 \fi
20298 \let@gnewline \@raggedtwo@gnewline
20299 \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
20300 \@rightskip\RaggedRightRightskip
20301 \if@RTL\leftskip\else\rightskip\fi@rightskip
20302 \parfillskip\RaggedRightParfillskip
20303 \parindent\RaggedRightParindent
20304 \@raggedtwo@spaceskiptrue
20305 \@raggedtwo@everyselectfont
20306 }
20307 \renewcommand{\justifying}{%
20308 \let\\ \@raggedtwo@savedcr
20309 \let@gnewline \@raggedtwo@saved@gnewline
20310 \if@RTL\rightskip\else\leftskip\fi\z@
20311 \@rightskip\z@
20312 \if@RTL\leftskip\else\rightskip\fi@rightskip
20313 \parfillskip\JustifyingParfillskip
20314 \parindent\JustifyingParindent
20315 \@raggedtwo@spaceskipfalse
20316 \@raggedtwo@everyselectfont
20317 }
20318 \def \@raggedtwo@raggedrightboxes@opt{%
20319 \renewcommand{\@arrayparboxrestore}{%
20320 \let\if@nobreak\iffalse
20321 \let\if@noskipsec\iffalse
20322 \let\par\@par
20323 \let\-\@dischyp
20324 \let'\@acci\let`\@accii\let\=@acciii
20325 \parskip\z@skip
20326 \everypar{}%
20327 \linewidth\hsize
20328 \@totalleftmargin\z@
20329 \if@RTL
20330 \RaggedLeft
20331 \else

```



```

20332     \RaggedRight
20333     \fi
20334     \lineskip\normallineskip
20335     \baselineskip\normalbaselineskip
20336     \sloppy}%
20337 \let\@raggedtwoe@raggedrightboxes@opt\relax
20338 }
20339 \def\@raggedtwoe@document@opt{%
20340 \AtBeginDocument{\@raggedtwoe@abdhook}%
20341 \@raggedtwoe@raggedrightboxes@opt
20342 \@raggedtwoe@footmisctrue
20343 \let\@raggedtwoe@document@opt\relax
20344 }
20345 \def\@raggedtwoe@abdhook{%
20346 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20347 right to left documents and '\string\RaggedRight' for left
20348 to right documents}%
20349 \if@RTL
20350 \RaggedLeft
20351 \else
20352 \RaggedRight
20353 \fi
20354 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20355 \let\@raggedtwoe@abdhook\relax
20356 }
20357 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20358 \@raggedtwoe@raggedrightboxes@opt
20359 }{}
20360 \@ifpackagewith{ragged2e}{document}{%
20361 \@raggedtwoe@document@opt
20362 }{}
20363 \let\origin@RaggedLeft=\RaggedLeft
20364 \let\origin@RaggedRight=\RaggedRight
20365 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20366 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

```

20367 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20368 \renewenvironment{theindex}{%
20369 \if@twocolumn
20370 \@restonecolfalse
20371 \else
20372 \@restonecoltrue
20373 \fi
20374 \columnseprule \z@
20375 \columnsep 35\p@
20376 \twocolumn[\@makeschapterhead{\indexname}]%
20377 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20378 \thispagestyle{plain}\parindent\z@
20379 \parskip\z@ \@plus .3\p@\relax
20380 \let\item\@idxitem
20381 }{%
20382 \if@restonecol\onecolumn\else\clearpage\fi}

```



```

20383 \renewcommand* \head@style{%
20384   \interlinepenalty \@M
20385   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20386   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20387 \if@titlepage
20388   \renewenvironment{abstract}{%
20389     \titlepage
20390     \null\vfil
20391     \section*{\SectFont\abstractname}%
20392     \noindent\ignorespaces}
20393   {\par\vfil\null\endtitlepage}
20394 \else
20395   \renewenvironment{abstract}{%
20396     \if@twocolumn
20397       \section*{\abstractname}%
20398     \else
20399       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20400       \section*{\small\SectFont\abstractname}%
20401       \noindent\ignorespaces
20402     \fi}
20403   {\if@twocolumn\else\par\egroup\fi}
20404 \fi
20405 \renewcommand* \@regtocline[3]{%
20406   \ifnum #1>\c@tocdepth
20407   \else
20408     \vskip\z@\@plus.2\p@
20409     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20410     \if@RTL\rightskip\else\leftskip\fi\unitindent
20411     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20412     \parfillskip\z@
20413     \@tempdima\unitindent
20414     \parindent\z@
20415     \leavevmode
20416     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20417     \hskip 1em \nobreak{\slshape #3}\par
20418     }%
20419   \fi}
20420 \if@oldtoc
20421 \renewcommand* \l@part[2]{%
20422   \ifnum \c@tocdepth >-2\relax
20423     \addpenalty{-\@highpenalty}%
20424     \addvspace{2.25em \@plus\p@}%
20425     \begingroup
20426       \setlength\@tempdima{3em}%
20427       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20428       \parfillskip -\@pnumwidth
20429       {\leavevmode
20430         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20431         \nobreak
20432         \global\@nobreaktrue
20433         \everypar{\global\@nobreakfalse\everypar{}}%
20434       \endgroup
20435   \fi}
20436 \else

```



```

20437 \renewcommand*\l@part{%
20438 \ifnum \c@tocdepth >-2\relax
20439 \addpenalty{-\@highpenalty}%
20440 \addvspace{2.25em \@plus \p@}%
20441 \@regtocoline{0}%
20442 \fi}
20443 \fi
20444 \if@oldtoc
20445 \renewcommand*\l@chapter[2]{%
20446 \addpenalty{-\@highpenalty}%
20447 \vskip 1.0em \@plus\p@
20448 \setlength\@tempdima{1.5em}%
20449 \begingroup
20450 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20451 \parfillskip -\@pnumwidth
20452 \leavevmode \bfseries
20453 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20454 \hskip -\if@RTL\rightskip\else\leftskip\fi
20455 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20456 \penalty\@highpenalty
20457 \endgroup}
20458 \else
20459 \renewcommand*\l@chapter{\@regtocoline{0}}
20460 \fi
20461 \renewcommand*\left@footnoterule{%
20462 \kern-3\p@
20463 \kern.5\baselineskip
20464 \hrule\@width\unitindent
20465 \kern.4\baselineskip
20466 }
20467 \renewcommand*\right@footnoterule{%
20468 \kern-3\p@
20469 \kern.5\baselineskip
20470 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20471 \kern.4\baselineskip}
20472 \renewenvironment{thebibliography}[1]
20473 {\chapter*{\bibname}%
20474 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20475 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20476 \bidi@thebibliography@font@hook%
20477 \list{\@biblabel{\@arabic\c@enumiv}}%
20478 {\settowidth\labelwidth{\@biblabel{#1}}%
20479 \leftmargin\labelwidth
20480 \advance\leftmargin\labelsep
20481 \@openbib@code
20482 \usecounter{enumiv}%
20483 \let\p@enumiv\@empty
20484 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20485 \sloppy\clubpenalty4000\widowpenalty4000%
20486 \sfcode`. \@m}
20487 {\def\@noitemerr
20488 {\@latex@warning{Empty `thebibliography' environment}}%
20489 \endlist}
20490 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}

```





```

20491 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20492 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20493 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20494 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20495 \renewcommand*\theequation{%
20496   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20497 \renewcommand*\thefigure{%
20498   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20499 \renewcommand*\thetable{%
20500   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20501 \if@titlepage
20502 \renewcommand*\TitleFont{\rmfamily}
20503 \renewcommand*\maketitle{%
20504   \begin{titlepage}%
20505     \let\footnotesize\small
20506     \let\right@footnoterule\relax
20507     \let\left@footnoterule\relax
20508     \let\textwidth@footnoterule\relax
20509     \let \footnote \thanks
20510     \long\def\@makefntext##1{\parindent\z@
20511       \def\labelitemi{\textendash}\@revlabeltrue
20512       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20513     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20514     \if@compatibility\setcounter{page}{0}\fi
20515     \null\vfil
20516     \vskip 60\p@
20517     \begin{center}%
20518       \TitleFont
20519       {\LARGE \def\{\{\penalty -\@M}
20520         \if@allcaps
20521           \expandafter\uc@nothanks\@title\thanks\relax
20522         \else
20523           \@title
20524           \fi\par}%
20525       \vskip 3em%
20526       {\large
20527         \lineskip .75em \parindent\z@
20528         \begin{tabular}[t]{c}%
20529           \if@allcaps
20530             \expandafter\uc@authornothanks\@author\and\relax
20531           \else
20532             \@author
20533           \fi
20534         \end{tabular}\par}%
20535       \vskip 1.5em%
20536       {\large
20537         \if@allcaps
20538           \uppercase\expandafter{\@date}%
20539         \else
20540           \@date
20541         \fi\par}%
20542       \end{center}\par
20543     \@thanks
20544     \vfil\null

```



```

20545 \end{titlepage}%
20546 \setcounter{footnote}{0}%
20547 \global\let\thanks\relax
20548 \global\let\maketitle\relax
20549 \global\let\@thanks\@empty
20550 \global\let\@author\@empty
20551 \global\let\@title\@empty
20552 \global\let\@date\@empty
20553 \global\let\title\relax
20554 \global\let\author\relax
20555 \global\let\date\relax
20556 \global\let\and\relax
20557 }
20558 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20559 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20560 \futurelet\@tempa\uc@ax}
20561 \def\uc@ax{%
20562 \ifx\@tempa\relax
20563 \else
20564 \ \andname \ \expandafter\uc@authornothanks
20565 \fi}
20566 \def\uc@tx{\ifx\@tempa\relax
20567 \else \expandafter\uc@ty \fi}
20568 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20569 \else
20570 \renewcommand*\maketitle{\par
20571 \begingroup
20572 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20573 \def\@makefnmark{\rlap{%
20574 \@textsuperscript{\normalfont\@thefnmark}}}%
20575 \long\def\@makefntext{\@xmakefntext{%
20576 \@textsuperscript{\normalfont\@thefnmark}}}%
20577 \if@twocolumn
20578 \ifnum \col@number=\@ne
20579 \@maketitle
20580 \else
20581 \twocolumn[\@maketitle]%
20582 \fi
20583 \else
20584 \newpage
20585 \global\@topnum\z@
20586 \@maketitle
20587 \fi
20588 \thispagestyle{plain}\@thanks
20589 \endgroup
20590 \setcounter{footnote}{0}%
20591 \global\let\thanks\relax
20592 \global\let\maketitle\relax
20593 \global\let\@maketitle\relax
20594 \global\let\@thanks\@empty
20595 \global\let\@author\@empty
20596 \global\let\@title\@empty
20597 \global\let\@date\@empty
20598 \global\let\title\relax

```



```

20599 \global\let\author\relax
20600 \global\let\date\relax
20601 \global\let\and\relax
20602 }
20603 \def\@maketitle{%
20604 \newpage
20605 \null
20606 \vskip 2em%
20607 \begin{center}%
20608 \let \footnote \thanks
20609 {\LARGE \TitleFont \@title \par}%
20610 \vskip 1.5em%
20611 {\large \TitleFont
20612 \lineskip .5em%
20613 \begin{tabular}[t]{c}%
20614 \@author
20615 \end{tabular}\par}%
20616 \vskip 1em%
20617 {\large \TitleFont \@date}%
20618 \end{center}%
20619 \par
20620 \vskip 1.5em}
20621 \fi

```

## 137 File rapport3-xetex-bidi.def

```

20622 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20623 \renewenvironment{theindex}{%
20624 \if@twocolumn
20625 \@restonecolfalse
20626 \else
20627 \@restonecoltrue
20628 \fi
20629 \columnseprule \z@
20630 \columnsep 35\p@
20631 \twocolumn[\@makeschapterhead{\indexname}]%
20632 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20633 \thispagestyle{plain}\parindent\z@
20634 \parskip\z@ \@plus .3\p@\relax
20635 \let\item\@idxitem
20636 }{%
20637 \if@restonecol\onecolumn\else\clearpage\fi}
20638 \if@titlepage
20639 \renewcommand*\TitleFont{\rmfamily}
20640 \renewcommand*\maketitle{%
20641 \begin{titlepage}%
20642 \let\footnotesize\small
20643 \let\right@footnoterule\relax
20644 \let\left@footnoterule\relax
20645 \let\textwidth@footnoterule\relax
20646 \let \footnote \thanks
20647 \let \LTRfootnote \LTRthanks
20648 \let \RTLfootnote \RTLthanks
20649 \long\def\@makefntext##1{\parindent\z@

```



```

20650         \def\labelitemi{\textendash}\@revlabeltrue
20651         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20652 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20653 \ifcompatibility\setcounter{page}{0}\fi
20654 \null\vfil
20655 \vskip 60\p@
20656 \begin{center}%
20657 \TitleFont
20658 {\LARGE \def\{\penalty -\@M}
20659 \if@allcaps
20660 \expandafter\uc@nothanks\@title\thanks\relax
20661 \else
20662 \@title
20663 \fi\par}%
20664 \vskip 3em%
20665 {\large
20666 \lineskip .75em \parindent\z@
20667 \begin{tabular}[t]{c}%
20668 \if@allcaps
20669 \expandafter\uc@authornothanks\@author\and\relax
20670 \else
20671 \@author
20672 \fi
20673 \end{tabular}\par}%
20674 \vskip 1.5em%
20675 {\large
20676 \if@allcaps
20677 \uppercase\expandafter{\@date}%
20678 \else
20679 \@date
20680 \fi\par}%
20681 \end{center}\par
20682 \@thanks
20683 \vfil\null
20684 \end{titlepage}%
20685 \setcounter{footnote}{0}%
20686 \global\let\thanks\relax
20687 \global\let\LTRthanks\relax
20688 \global\let\RTLthanks\relax
20689 \global\let\maketitle\relax
20690 \global\let\@thanks\@empty
20691 \global\let\@author\@empty
20692 \global\let\@title\@empty
20693 \global\let\@date\@empty
20694 \global\let\title\relax
20695 \global\let\author\relax
20696 \global\let\date\relax
20697 \global\let\and\relax
20698 }
20699 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20700 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20701 \futurelet\@tempa\uc@ax}
20702 \def\uc@ax{%
20703 \ifx\@tempa\relax

```



```

20704 \else
20705   \ \ \andname \ \ \expandafter\uc@authornothanks
20706 \fi}
20707 \def\uc@tx{\ifx\@tempa\relax
20708   \else \expandafter\uc@ty \fi}
20709 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20710 \else
20711 \renewcommand*\maketitle{\par
20712 \begingroup
20713   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20714   \def\@makefnmark{\rlap{%
20715     \@textsuperscript{\normalfont\@thefnmark}}}%
20716   \long\def\@makefntext{\@xmakefntext{%
20717     \@textsuperscript{\normalfont\@thefnmark}}}%
20718   \if@twocolumn
20719     \ifnum \col@number=\@ne
20720       \@maketitle
20721     \else
20722       \twocolumn[\@maketitle]%
20723     \fi
20724   \else
20725     \newpage
20726     \global\@topnum\z@
20727     \@maketitle
20728   \fi
20729   \thispagestyle{plain}\@thanks
20730 \endgroup
20731 \setcounter{footnote}{0}%
20732 \global\let\thanks\relax
20733 \global\let\LTRthanks\relax
20734 \global\let\RTLthanks\relax
20735 \global\let\maketitle\relax
20736 \global\let\@maketitle\relax
20737 \global\let\@thanks\@empty
20738 \global\let\@author\@empty
20739 \global\let\@title\@empty
20740 \global\let\@date\@empty
20741 \global\let\title\relax
20742 \global\let\author\relax
20743 \global\let\date\relax
20744 \global\let\and\relax
20745 }
20746 \def\@maketitle{%
20747 \newpage
20748 \null
20749 \vskip 2em%
20750 \if@titlecentered
20751 \begin{center}%
20752   \let \footnote \thanks
20753   \let \LTRfootnote \LTRthanks
20754   \let \RTLfootnote \RTLthanks
20755   {\LARGE \TitleFont \@title \par}%
20756   \vskip 1.5em%
20757   {\large \TitleFont

```



```

20758     \lineskip .5em%
20759     \begin{tabular}[t]{c}%
20760         \@author
20761     \end{tabular}\par}%
20762     \vskip 1em%
20763     {\large \TitleFont \@date}%
20764 \end{center}%
20765 \else
20766     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20767     {\large \TitleFont \lineskip .5em \tabcolsep\z@
20768         \def\and{%% \begin{tabular} has already started
20769             \end{tabular}\hskip 1em plus .17fil
20770             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
20771             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}}
20772     \vskip 1em {\large \TitleFont \@date}
20773 \fi
20774 \par
20775 \vskip 1.5em}
20776 \fi
20777 \renewcommand*\@regtocline[3]{%
20778 \ifnum #1>\c@tocdepth
20779 \else
20780     \vskip\z@\@plus.2\p@
20781     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
20782     \if@RTL\righskip\else\leftskip\fi\unitindent
20783     \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20784     \parfillskip\z@
20785     \@tempdima\unitindent
20786     \parindent\z@
20787     \leavevmode
20788     \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20789     \hskip 1em \nobreak{\slshape #3}\par
20790     }%
20791 \fi}
20792 \if@oldtoc
20793 \renewcommand*\l@part[2]{%
20794 \ifnum \c@tocdepth >-2\relax
20795     \addpenalty{-\@highpenalty}%
20796     \addvspace{2.25em \@plus\p@}%
20797     \begingroup
20798     \setlength\@tempdima{3em}%
20799     \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20800     \parfillskip -\@pnumwidth
20801     {\leavevmode
20802         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20803         \nobreak
20804         \global\@nobreaktrue
20805         \everypar{\global\@nobreakfalse\everypar{}}%
20806     \endgroup
20807 \fi}
20808 \else
20809 \renewcommand*\l@part{%
20810 \ifnum \c@tocdepth >-2\relax
20811     \addpenalty{-\@highpenalty}%

```



```

20812     \advvspace{2.25em \@plus \p@}%
20813     \@regtocoline{0}%
20814     \fi}
20815 \fi
20816 \if@oldtoc
20817 \renewcommand*\l@chapter[2]{%
20818     \addpenalty{-\@highpenalty}%
20819     \vskip 1.0em \@plus\p@
20820     \setlength\@tempdima{1.5em}%
20821     \begingroup
20822     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20823     \parfillskip -\@pnumwidth
20824     \leavevmode \bfseries
20825     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20826     \hskip -\if@RTL\rightskip\else\leftskip\fi
20827     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20828     \penalty\@highpenalty
20829     \endgroup}
20830 \else
20831 \renewcommand*\l@chapter{\@regtocoline{0}}
20832 \fi
20833 \renewcommand*\head@style{%
20834     \interlinepenalty \@M
20835     \hyphenpenalty=\@M \exhyphenpenalty=\@M
20836     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20837 \if@titlepage
20838 \renewenvironment{abstract}{%
20839     \titlepage
20840     \null\vfil
20841     \section*{\SectFont\abstractname}%
20842     \noindent\ignorespaces}
20843 {\par\vfil\null\endtitlepage}
20844 \else
20845 \renewenvironment{abstract}{%
20846     \if@twocolumn
20847     \section*{\abstractname}%
20848     \else
20849     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20850     \section*{\small\SectFont\abstractname}%
20851     \noindent\ignorespaces
20852     \fi}
20853 {\if@twocolumn\else\par\egroup\fi}
20854 \fi
20855 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20856 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20857 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20858 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20859 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20860 \renewcommand*\thefigure{%
20861     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20862 \renewcommand*\thetable{%
20863     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20864 \renewcommand*\theequation{%
20865     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}

```



```

20866 \renewenvironment{thebibliography}[1]
20867     {\chapter*{\bibname}%
20868      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20869      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20870      \bidi@thebibliography@font@hook%
20871      \list{\@biblabel{\@arabic\c@enumiv}}%
20872          {\settowidth\labelwidth{\@biblabel{#1}}%
20873           \leftmargin\labelwidth
20874           \advance\leftmargin\labelsep
20875           \@openbib@code
20876           \usecounter{enumiv}%
20877           \let\p@enumiv\@empty
20878           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20879      \sloppy\clubpenalty4000\widowpenalty4000%
20880      \sfcode`. \@m}
20881      {\def\@noitemerr
20882       {\@latex@warning{Empty `thebibliography' environment}}}%
20883      \endlist}
20884 \renewcommand*\left@footnoterule{%
20885   \kern-3\p@
20886   \kern.5\baselineskip
20887   \hrule\@width\unitindent
20888   \kern.4\baselineskip
20889 }
20890 \renewcommand*\right@footnoterule{%
20891   \kern-3\p@
20892   \kern.5\baselineskip
20893   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20894   \kern.4\baselineskip}
20895 \renewcommand*\head@style{%
20896   \interlinepenalty \@M
20897   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20898   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File `refrep-xetex-bidi.def`

```

20899 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20900 \if@titlepage
20901   \renewcommand\maketitle{\begin{titlepage}%
20902     \let\footnotesize\small
20903     \let\right@footnoterule\relax
20904     \let\left@footnoterule\relax
20905     \let\textwidth@footnoterule\relax
20906     \let\footnote\thanks
20907     \let\LTRfootnote\LTRthanks
20908     \let\RTLfootnote\RTLthanks
20909     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20910     \def\@makefnmark%
20911       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20912     \long\def\@makefntext##1{%
20913       \@setpar{\@par
20914         \@tempdima = \hsize
20915         \advance\@tempdima -1em
20916         \parshape \@ne 1em \@tempdima}%

```





```

20917     \par\parindent 1em \noindent
20918     \hb@xt@z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20919 \null\vfil
20920 \vskip 60\p@
20921 \begin{center}%
20922   {\LARGE \@title \par}%
20923   \vskip 3em%
20924   {\large
20925     \lineskip .75em%
20926     \begin{tabular}[t]{c}%
20927       \@author
20928     \end{tabular}\par}%
20929     \vskip 1.5em%
20930     {\large \@date \par}%           % Set date in \large size.
20931 \end{center}\par
20932 \@thanks
20933 \vfil\null
20934 \end{titlepage}%
20935 \setcounter{footnote}{0}%
20936 \global\let\thanks\relax
20937 \global\let\LTRthanks\relax
20938 \global\let\RTLthanks\relax
20939 \global\let\maketitle\relax
20940 \global\let\@thanks\@empty
20941 \global\let\@author\@empty
20942 \global\let\@date\@empty
20943 \global\let\@title\@empty
20944 \global\let\title\relax
20945 \global\let\author\relax
20946 \global\let\date\relax
20947 \global\let\and\relax
20948 }
20949 \else
20950 \renewcommand\maketitle{\par
20951   \begingroup
20952     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20953     \def\@makefnmark%
20954       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20955     \long\def\@makefntext##1{%
20956       \setpar{\@par
20957         \@tempdima = \hsize
20958         \advance\@tempdima -1em
20959         \parshape \@ne 1em \@tempdima}%
20960       \par\parindent 1em \noindent
20961       \hb@xt@z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20962     \iftwocolumn
20963       \ifnum \col@number=\@ne
20964         \@maketitle
20965       \else
20966         \twocolumn[\@maketitle]%
20967       \fi
20968     \else
20969       \newpage
20970     \global\@topnum\z@           % Prevents figures from going at top of page.

```



```

20971     \@maketitle
20972     \fi
20973     \thispagestyle{empty}\@thanks
20974   \endgroup
20975   \setcounter{footnote}{0}%
20976 \global\let\thanks\relax
20977 \global\let\LTRthanks\relax
20978 \global\let\RTLthanks\relax
20979 \global\let\maketitle\relax
20980 \global\let\@maketitle\relax
20981 \global\let\@thanks\@empty
20982 \global\let\@author\@empty
20983 \global\let\@date\@empty
20984 \global\let\@title\@empty
20985 \global\let\title\relax
20986 \global\let\author\relax
20987 \global\let\date\relax
20988 \global\let\and\relax
20989 }
20990 \def\@maketitle{%
20991   \newpage
20992   \null
20993   \longthickrule\vskip1.5em%
20994   \let \footnote \thanks
20995   \let \LTRfootnote \LTRthanks
20996   \let \RTLfootnote \RTLthanks
20997   {\secshape \parskip\z@ \parindent\z@
20998   \Large\bfseries \@title \par}%
20999   \vskip1.5em\longthickrule\vskip1.5em%
21000   {\normalsize
21001     \lineskip .5em%
21002     \begin{flushright}%
21003       {\slshape\@author\par}
21004       \vskip 1em%
21005       {\@date}%
21006     \end{flushright}\par}%
21007   \vskip 1.5em}
21008 \fi
21009 \renewcommand*\l@part[2]{%
21010   \ifnum \c@tocdepth >-2\relax
21011     \addpenalty{-\@highpenalty}%
21012     \addvspace{2.25em \@plus\p@}%
21013     \begingroup
21014       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21015       \parfillskip -\@pnumwidth
21016       {\leavevmode
21017         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
21018         \nobreak
21019         \global\@nobreaktrue
21020         \everypar{\global\@nobreakfalse\everypar{}}%
21021       \endgroup
21022   \fi}
21023 \renewcommand*\l@chapter[2]{%
21024   \ifnum \c@tocdepth >\m@ne

```



```

21025 \addpenalty{-\@highpenalty}%
21026 \vskip 1.0em \@plus\p@
21027 \setlength\@tempdima{1.5em}%
21028 \begingroup
21029 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21030 \parfillskip -\@pnumwidth
21031 \leavevmode \bfseries
21032 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21033 \hskip -\if@RTL\rightskip\else\leftskip\fi
21034 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21035 \penalty\@highpenalty
21036 \endgroup
21037 \fi}
21038 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21039 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21040 \hyphenpenalty=2000}
21041 \renewcommand\left@footnoterule{%
21042 \kern-3\p@
21043 \hrule\@width.4\columnwidth
21044 \kern 2.6\p@}
21045 \renewcommand\right@footnoterule{%
21046 \kern-3\p@
21047 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21048 \kern2.6\p@}
21049 \renewcommand\theequation
21050 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21051 \renewcommand\thefigure
21052 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21053 \renewcommand\thetable%
21054 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21055 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21056 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21057 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21058 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21059 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21060 \renewenvironment{thebibliography}[1]
21061 {\chapter*{\bibname
21062 \mkboth{\bibname}{\bibname}}%
21063 \if@RTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21064 \bidi@thebibliography@font@hook%
21065 \list{\@biblabel{\@arabic\c@enumiv}}%
21066 {\settowidth\labelwidth{\@biblabel{#1}}%
21067 \leftmargin\labelwidth
21068 \advance\leftmargin\labelsep
21069 \@openbib@code
21070 \usecounter{enumiv}%
21071 \let\p@enumiv\@empty
21072 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21073 \sloppy
21074 \clubpenalty4000
21075 \@clubpenalty \clubpenalty
21076 \widowpenalty4000%
21077 \sfcode`\.=\@m}
21078 {\def\@noitemerr

```



```

21079         {\@latex@warning{Empty `thebibliography' environment}}%
21080         \endlist}

```

## 139 File report-xetex-bidi.def

```

21081 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
21082 \renewenvironment{theindex}
21083         {\if@twocolumn
21084          \@restonecolfalse
21085          \else
21086          \@restonecoltrue
21087          \fi
21088          \columnseprule \z@
21089          \columnsep 35\p@
21090          \twocolumn[\@makeschapterhead{\indexname}]%
21091          \@mkboth{\MakeUppercase\indexname}%
21092                  {\MakeUppercase\indexname}%
21093          \thispagestyle{plain}\parindent\z@
21094          \parskip\z@ \@plus .3\p@\relax
21095          \let\item\@idxitem}
21096         {\if@restonecol\onecolumn\else\clearpage\fi}
21097 \if@titlepage
21098 \renewcommand\maketitle{\begin{titlepage}%
21099 \let\footnotesize\small
21100 \let\right@footnoterule\relax
21101 \let\left@footnoterule\relax
21102 \let\textwidth@footnoterule\relax
21103 \let \footnote \thanks
21104 \let \LTRfootnote \LTRthanks
21105 \let \RTLfootnote \RTLthanks
21106 \null\vfil
21107 \vskip 60\p@
21108 \begin{center}%
21109   {\LARGE \@title \par}%
21110   \vskip 3em%
21111   {\large
21112     \lineskip .75em%
21113     \begin{tabular}[t]{c}%
21114       \@author
21115     \end{tabular}\par}%
21116   \vskip 1.5em%
21117   {\large \@date \par}%           % Set date in \large size.
21118 \end{center}\par
21119 \@thanks
21120 \vfil\null
21121 \end{titlepage}%
21122 \setcounter{footnote}{0}%
21123 \global\let\thanks\relax
21124 \global\let\LTRthanks\relax
21125 \global\let\RTLthanks\relax
21126 \global\let\maketitle\relax
21127 \global\let\@thanks\@empty
21128 \global\let\@author\@empty
21129 \global\let\@date\@empty

```



```

21130 \global\let\@title\@empty
21131 \global\let\title\relax
21132 \global\let\author\relax
21133 \global\let\date\relax
21134 \global\let\and\relax
21135 }
21136 \else
21137 \renewcommand\maketitle{\par
21138 \begingroup
21139 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21140 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21141 \long\def\@makefntext##1{\parindent 1em\noindent
21142 \hb@xt@1.8em{%
21143 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21144 \iftwocolumn
21145 \ifnum \col@number=\@ne
21146 \maketitle
21147 \else
21148 \twocolumn[\maketitle]%
21149 \fi
21150 \else
21151 \newpage
21152 \global\@topnum\z@ % Prevents figures from going at top of page.
21153 \maketitle
21154 \fi
21155 \thispagestyle{plain}\@thanks
21156 \endgroup
21157 \setcounter{footnote}{0}%
21158 \global\let\thanks\relax
21159 \global\let\LTRthanks\relax
21160 \global\let\RTLthanks\relax
21161 \global\let\maketitle\relax
21162 \global\let\@maketitle\relax
21163 \global\let\@thanks\@empty
21164 \global\let\@author\@empty
21165 \global\let\@date\@empty
21166 \global\let\@title\@empty
21167 \global\let\title\relax
21168 \global\let\author\relax
21169 \global\let\date\relax
21170 \global\let\and\relax
21171 }
21172 \def\@maketitle{%
21173 \newpage
21174 \null
21175 \vskip 2em%
21176 \begin{center}%
21177 \let \footnote \thanks
21178 \let \LTRfootnote \LTRthanks
21179 \let \RTLfootnote \RTLthanks
21180 {\LARGE \@title \par}%
21181 \vskip 1.5em%
21182 {\large
21183 \lineskip .5em%

```



```

21184     \begin{tabular}[t]{c}%
21185         \author
21186     \end{tabular}\par}%
21187     \vskip 1em%
21188     {\large \@date}%
21189 \end{center}%
21190 \par
21191 \vskip 1.5em}
21192 \fi
21193 \renewcommand*\l@part[2]{%
21194     \ifnum \c@tocdepth >-2\relax
21195         \addpenalty{-\@highpenalty}%
21196         \addvspace{2.25em \@plus\p@}%
21197         \setlength\@tempdima{3em}%
21198         \begingroup
21199             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21200             \parfillskip -\@pnumwidth
21201             {\leavevmode
21202                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21203             \nobreak
21204             \global\@nobreaktrue
21205             \everypar{\global\@nobreakfalse\everypar{}}%
21206         \endgroup
21207     \fi}
21208 \renewcommand*\l@chapter[2]{%
21209     \ifnum \c@tocdepth >\m@ne
21210         \addpenalty{-\@highpenalty}%
21211         \vskip 1.0em \@plus\p@
21212         \setlength\@tempdima{1.5em}%
21213         \begingroup
21214             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21215             \parfillskip -\@pnumwidth
21216             \leavevmode \bfseries
21217             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21218             \hskip -\if@RTL\rightskip\else\leftskip\fi
21219             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21220             \penalty\@highpenalty
21221         \endgroup
21222     \fi}
21223 \renewcommand\left@footnoterule{%
21224     \kern-3\p@
21225     \hrule\@width.4\columnwidth
21226     \kern2.6\p@}
21227 \renewcommand\right@footnoterule{%
21228     \kern-3\p@
21229     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21230     \kern2.6\p@}
21231 \renewcommand\theequation
21232     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21233 \renewcommand \thefigure
21234     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21235 \renewcommand \thetable
21236     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21237 \renewcommand \thechapter {\@arabic\c@chapter}

```



```

21238 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21239 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21240 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21241 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
21242 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
21243 \def \@makechapterhead #1{%
21244   \vspace*{50\p@}%
21245   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21246     \ifnum \c@secnumdepth >\m@ne
21247       \huge\bfseries \@chapapp\space \thechapter
21248       \par\nobreak
21249       \vskip 20\p@
21250     \fi
21251     \interlinepenalty \@M
21252     \Huge \bfseries #1\par\nobreak
21253     \vskip 40\p@
21254   }}
21255 \def \@makeschapterhead #1{%
21256   \vspace*{50\p@}%
21257   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21258     \normalfont
21259     \interlinepenalty \@M
21260     \Huge \bfseries #1\par\nobreak
21261     \vskip 40\p@
21262   }}
21263 \renewenvironment{thebibliography}[1]
21264   {\chapter*{\bibname}%
21265     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21266     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21267     \bidi@thebibliography@font@hook%
21268     \list{\@biblabel{\@arabic\c@enumiv}}%
21269       {\settowidth\labelwidth{\@biblabel{#1}}%
21270        \leftmargin\labelwidth
21271        \advance\leftmargin\labelsep
21272        \@openbib@code
21273        \usecounter{enumiv}%
21274        \let\p@enumiv\@empty
21275        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21276     \sloppy
21277     \clubpenalty4000
21278     \@clubpenalty \clubpenalty
21279     \widowpenalty4000%
21280     \sfcode`..\@m}
21281   {\def\@noitemerr
21282     {\@latex@warning{Empty `thebibliography' environment}}%
21283     \endlist}

```

## 140 File rotating-xetex-bidi.def

```

21284 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21285 \def\end@rotfloat{%
21286   \end{minipage}\end{lrbox}%
21287   \stepcounter{r@tfl@t}%
21288   \rot@label{RF\ther@tfl@t}%

```



```

21289 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21290 \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
21291 \rot@mess@toks\expandafter{\@tempa}
21292 \wd\rot@float@box\z@
21293 \ht\rot@float@box\z@
21294 \dp\rot@float@box\z@
21295 \vboxL to \textheight{%
21296 \setkeys{Grot}{units=360}%
21297 \if@rot@twoside
21298 \else
21299 \let\R@@page\rot@LR
21300 \fi
21301 \ifthenelse{\isodd{\R@@page}}{%
21302 \if@rot@twoside
21303 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21304 \fi
21305 \vfill
21306 \@@line{%
21307 \hskip\rotFPtop
21308 \rotatebox{90}{\box\rot@float@box}%
21309 \hskip\rotFPbot
21310 }%
21311 }{%
21312 \if@rot@twoside
21313 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21314 \fi
21315 \@@line{%
21316 \hskip\rotFPbot
21317 \rotatebox{-90}{\box\rot@float@box}%
21318 \hskip\rotFPtop
21319 }%
21320 \vfill
21321 }%
21322 \rot@message{\the\rot@mess@toks}
21323 }%
21324 \end@float
21325 }
21326 \let\endsidewaysfigure\end@rotfloat
21327 \let\endsidewaystable\end@rotfloat
21328 \def\end@rotdblfloat{%
21329 \end{minipage}\end{lrbox}%
21330 \stepcounter{r@tfl@t}%
21331 \rot@label{RF\ther@tfl@t}%
21332 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21333 \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
21334 \rot@mess@toks\expandafter{\@tempa}
21335 \@tempdima\ht\rot@float@box
21336 \advance\@tempdima by \dp\rot@float@box
21337 \wd\rot@float@box\z@
21338 \ht\rot@float@box\z@
21339 \dp\rot@float@box\z@
21340 \vboxL to \textheight{%
21341 \setkeys{Grot}{units=360}%
21342 \if@rot@twoside

```





```

21343     \else
21344         \let\R@@page\rot@LR
21345     \fi
21346     \ifthenelse{\isodd{\R@@page}}{%
21347         \ifrot@messages
21348             \if@rot@twoside
21349     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21350 \fi
21351     \fi
21352     \vfill
21353     \@@line{%
21354         \hskip\rotFPtop
21355         \rotatebox{90}{\box\rot@float@box}%
21356         \hskip\rotFPbot
21357     }%
21358 }{%
21359     \ifrot@messages
21360         \if@rot@twoside
21361     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21362 \fi
21363     \fi%
21364     \@@line{%
21365         \hskip\rotFPbot
21366         \rotatebox{-90}{\box\rot@float@box}%
21367         \hskip\rotFPtop
21368     }%
21369     \vfill
21370 }%
21371     \rot@message{\the\rot@mess@toks}%
21372 }%
21373 \end@dblfloat
21374 }
21375 \def\turn#1{%
21376     \Grot@setangle{#1}%
21377     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21378 \def\endturn{%
21379     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21380     \unskip\color@endbox
21381     \Grot@x\z@
21382     \Grot@y\z@
21383     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21384 }
21385 \def\rotate#1{%
21386     \Grot@setangle{#1}%
21387     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21388 \def\endrotate{%
21389     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21390     \unskip\color@endbox
21391     \Grot@x\z@
21392     \Grot@y\z@
21393     \wd0\z@\dp0\z@\ht0\z@
21394     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21395 }
21396 \def\turnbox#1#2{%

```



```

21397 \Grot@setangle{#1}%
21398 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21399 \Grot@x\z@\Grot@y\z@
21400 \wd0\z@\dp0\z@\ht0\z@
21401 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21402 }
21403 \def\sideways{%
21404 \Grot@setangle{90}%
21405 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21406 \def\endsideways{%
21407 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21408 \unskip\color@endbox
21409 \Grot@x\z@
21410 \Grot@y\z@
21411 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21412 }

```

## 141 File `scrartcl-xetex-bidi.def`

```

21413 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21414 \newcommand{\scr@saved@LTRfootnotetext}{}
21415 \newcommand{\scr@saved@RTLfootnotetext}{}
21416 \let\scr@saved@footnotetext\@footnotetext
21417 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21418 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21419 \renewcommand{\@footnotetext}[1]{%
21420 \scr@saved@footnotetext{#1}%
21421 \csname FN@mfp@prepare\endcsname
21422 }
21423 \renewcommand{\@LTRfootnotetext}[1]{%
21424 \scr@saved@LTRfootnotetext{#1}%
21425 \csname FN@mfp@prepare\endcsname
21426 }
21427 \renewcommand{\@RTLfootnotetext}[1]{%
21428 \scr@saved@RTLfootnotetext{#1}%
21429 \csname FN@mfp@prepare\endcsname
21430 }
21431 \renewcommand\deffootnote[4][1]{%
21432 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21433 \long\def\@makefntext##1{%
21434 \ExecuteDoHook{footnote/text/begin}%
21435 \raggedfootnote
21436 \if@RTL
21437 \rightskip
21438 \else
21439 \leftskip
21440 \fi
21441 #2
21442 \l@addto@macro\@trivlist{%
21443 \ifnum\@listdepth=\@ne
21444 \if@RTL
21445 \advance\rightmargin #2\relax
21446 \else
21447 \advance\leftmargin #2\relax

```



```

21448     \fi
21449     \fi
21450   }%
21451   \parindent #3\noindent
21452   \IfArgIsEmpty{#1}{}{%
21453     \hskip \dimexpr #1-#2\relax
21454   }%
21455   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21456   \ExecuteDoHook{footnote/text/end}%
21457 }%
21458 \else
21459   \ClassInfo{\KOMAClassName}{%
21460     Using old \string\@makefnmark\space due to compatibility
21461     level\MessageBreak
21462     less than 3.22}%
21463   \long\def\@makefnmark##1{%
21464     \setlength{\@tempdimc}{#3}%
21465     \def\@tempa{#1}\ifx\@tempa\@empty
21466       \setpar{\@par
21467         \@tempdima = \hspace
21468         \addtolength{\@tempdima}{-#2}%
21469         \if@RTL
21470           \parshape \@ne \z@ \@tempdima
21471         \else
21472           \parshape \@ne #2 \@tempdima
21473         \fi}%
21474     \else
21475       \addtolength{\@tempdimc}{#2}%
21476       \addtolength{\@tempdimc}{-#1}%
21477       \setpar{\@par
21478         \@tempdima = \hspace
21479         \addtolength{\@tempdima}{-#1}%
21480         \@tempdimb = \hspace
21481         \addtolength{\@tempdimb}{-#2}%
21482         \if@RTL
21483           \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21484         \else
21485           \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21486         \fi
21487       }%
21488     \fi
21489   \par
21490   \parindent\@tempdimc\noindent
21491   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21492 }%
21493 \fi
21494 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21495 }
21496 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21497 \renewcommand*\left@footnoterule{%
21498   \normalsize\ftn@rule@test@values
21499   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21500   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21501   {\usekomafont{footnoterule}}%

```



```

21502     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21503 \kern 2.6\p@}
21504 \renewcommand*\right@footnoterule{%
21505   \normalsize\ftn@rule@test@values
21506   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21507   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21508   {\usekomafont{footnoterule}{%
21509     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21510   \kern 2.6\p@}
21511 \renewcommand*\maketitle[1][1]{%
21512   \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
21513   \else
21514     \def\and{%
21515       \end{tabular}%
21516       \hskip 1em \@plus.17fil%
21517       \begin{tabular}[t]{c}%
21518     }%
21519   \fi
21520   \if@titlepage
21521     \begin{titlepage}
21522       \setcounter{page}{%
21523         #1%
21524       }%
21525     \if@titlepageiscoverpage
21526       \edef\t@titlepage@restore{%
21527         \noexpand\endgroup
21528         \noexpand\global\noexpand\@colht\the\@colht
21529         \noexpand\global\noexpand\@colroom\the\@colroom
21530         \noexpand\global\vsizethe\vsizethe
21531         \noexpand\global\noexpand\@titlepageiscoverpagefalse
21532         \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
21533       }%
21534       \begingroup
21535       \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21536       \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21537       \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21538       \textwidth=\dimexpr
21539       \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21540       \textheight=\dimexpr
21541       \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21542       \headheight=0pt
21543       \headsep=0pt
21544       \footskip=\baselineskip
21545       \@colht=\textheight
21546       \@colroom=\textheight
21547       \vsizethe\textheight
21548       \columnwidth=\textwidth
21549       \hsizethe\columnwidth
21550       \linewidth=\hsizethe
21551     \else
21552       \let\t@titlepage@restore\relax
21553     \fi
21554     \let\footnotesize\small
21555     \let\right@footnoterule\relax

```



```

21556 \let\left@footnoterule\relax
21557 \let\textwidth@footnoterule\relax
21558 \let\footnote\thanks
21559 \let\LTRfootnote\LTRthanks
21560 \let\RTLfootnote\RTLthanks
21561 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21562 \let\@oldmakefnmark\@makefnmark
21563 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21564 \ifx\@extratitle\@empty
21565   \ifx\@frontispiece\@empty
21566   \else
21567     \if@twoside\mbox{}\next@tpage\fi
21568     \noindent\@frontispiece\next@tdpage
21569   \fi
21570 \else
21571   \noindent\@extratitle
21572   \ifx\@frontispiece\@empty
21573   \else
21574     \next@tpage
21575     \noindent\@frontispiece
21576   \fi
21577   \next@tdpage
21578 \fi
21579 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21580 \ifx\@titlehead\@empty \else
21581   \begin{minipage}[t]{\textwidth}%
21582     \usekomafont{titlehead}{\@titlehead\par}%
21583   \end{minipage}\par
21584 \fi
21585 \null\vfill
21586 \begin{center}
21587   \ifx\@subject\@empty \else
21588     {\usekomafont{subject}{\@subject\par}}%
21589     \vskip 3em
21590   \fi
21591   {\usekomafont{title}{\huge \@title\par}}%
21592   \vskip 1em
21593   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21594   \vskip 2em
21595   {%
21596     \usekomafont{author}{%
21597       \lineskip 0.75em
21598       \begin{tabular}[t]{c}
21599         \@author
21600       \end{tabular}\par
21601     }%
21602   }%
21603   \vskip 1.5em
21604   {\usekomafont{date}{\@date \par}}%
21605   \vskip \z@ \@plus3fill
21606   {\usekomafont{publishers}{\@publishers \par}}%
21607   \vskip 3em
21608 \end{center}\par
21609 \@thanks\global\let\@thanks\@empty

```



```

21610 \vfill\null
21611 \if@twoside
21612 \@tempwattrue
21613 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21614 \else
21615 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21616 \@tempwafalse
21617 \fi\fi
21618 \fi
21619 \if@tempswa
21620 \next@tpage
21621 \begin{minipage}[t]{\textwidth}
21622 \@uppertitleback
21623 \end{minipage}\par
21624 \vfill
21625 \begin{minipage}[b]{\textwidth}
21626 \@lowertitleback
21627 \end{minipage}\par
21628 \@thanks\global\let\@thanks\@empty
21629 \fi
21630 \else
21631 \ifx\@uppertitleback\@empty\else
21632 \ClassWarning{\KOMAClassName}{%
21633 non empty \string\uppertitleback\space ignored
21634 by \string\maketitle\MessageBreak
21635 in `twoside=false' mode%
21636 }%
21637 \fi
21638 \ifx\@lowertitleback\@empty\else
21639 \ClassWarning{\KOMAClassName}{%
21640 non empty \string\lowertitleback\space ignored
21641 by \string\maketitle\MessageBreak
21642 in `twoside=false' mode%
21643 }%
21644 \fi
21645 \fi
21646 \ifx\@dedication\@empty
21647 \else
21648 \next@tdpage\null\vfill
21649 {\centering\usekomafont{dedication}{\@dedication \par}}%
21650 \vskip \z@ \@plus3fill
21651 \@thanks\global\let\@thanks\@empty
21652 \cleardoubleemptypage
21653 \fi
21654 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21655 \end{titlepage}
21656 \else
21657 \par
21658 \@tempcnta=%
21659 #1%
21660 \relax\ifnum\@tempcnta=1\else
21661 \ClassWarning{\KOMAClassName}{%
21662 Optional argument of \string\maketitle\space ignored\MessageBreak
21663 in `titlepage=false' mode%

```



```

21664     }%
21665 \fi
21666 \ifx\@uppertitleback\@empty\else
21667   \ClassWarning{\KOMAClassName}{%
21668     non empty \string\uppertitleback\space ignored
21669     by \string\maketitle\MessageBreak
21670     in `titlepage=false' mode%
21671   }%
21672 \fi
21673 \ifx\@lowertitleback\@empty\else
21674   \ClassWarning{\KOMAClassName}{%
21675     non empty \string\lowertitleback\space ignored
21676     by \string\maketitle\MessageBreak
21677     in `titlepage=false' mode%
21678   }%
21679 \fi
21680 \begingroup
21681   \let\titlepage@restore\relax
21682   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21683   \let\@oldmakefnmark\@makefnmark
21684   \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21685   \next@tdpage
21686   \if@twocolumn
21687     \ifnum \col@number=\@one
21688       \ifx\@extratitle\@empty
21689         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21690       \else
21691         \@makeextratitle
21692       \fi
21693       \ifx\@frontispiece\@empty
21694         \ifx\@extratitle\@empty\else\next@tdpage\fi
21695       \else
21696         \next@tpage
21697         \@makefrontispiece
21698         \next@tdpage
21699       \fi
21700       \@maketitle
21701     \else
21702       \ifx\@extratitle\@empty
21703         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21704       \else
21705         \twocolumn[\@makeextratitle]%
21706       \fi
21707       \ifx\@frontispiece\@empty
21708         \ifx\@extratitle\@empty\else\next@tdpage\fi
21709       \else
21710         \next@tpage
21711         \twocolumn[\@makefrontispiece]%
21712         \next@tdpage
21713       \fi
21714       \twocolumn[\@maketitle]%
21715     \fi
21716   \else
21717     \ifx\@extratitle\@empty

```



```

21718         \ifx\@frontispiece\@empty\else \mbox{}\fi
21719     \else
21720         \@makeextratitle
21721     \fi
21722     \ifx\@frontispiece\@empty
21723         \ifx\@extratitle\@empty\else\next@tdpage\fi
21724     \else
21725         \next@tpage
21726         \@makefrontispiece
21727         \next@tdpage
21728     \fi
21729     \@maketitle
21730 \fi
21731     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21732     \@thanks\global\let\@thanks\@empty
21733 \endgroup
21734 \fi
21735 \setcounter{footnote}{0}%
21736 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
21737     \let\thanks\relax
21738     \let\LTRthanks\relax
21739     \let\RTLthanks\relax
21740     \let\maketitle\relax
21741     \let\@maketitle\relax
21742     \global\let\@thanks\@empty
21743     \global\let\@author\@empty
21744     \global\let\@date\@empty
21745     \global\let\@title\@empty
21746     \global\let\@subtitle\@empty
21747     \global\let\@extratitle\@empty
21748     \global\let\@frontispiece\@empty
21749     \global\let\@titlehead\@empty
21750     \global\let\@subject\@empty
21751     \global\let\@publishers\@empty
21752     \global\let\@uppertitleback\@empty
21753     \global\let\@lowertitleback\@empty
21754     \global\let\@dedication\@empty
21755     \global\let\author\relax
21756     \global\let\title\relax
21757     \global\let\extratitle\relax
21758     \global\let\titlehead\relax
21759     \global\let\subject\relax
21760     \global\let\publishers\relax
21761     \global\let\uppertitleback\relax
21762     \global\let\lowertitleback\relax
21763     \global\let\dedication\relax
21764     \global\let\date\relax
21765 \fi
21766 \global\let\and\relax
21767 }%
21768 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21769 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21770 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21771 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}

```





```

21772 \renewcommand*{\thesubsubsection}{%
21773   \thesubsection\@SepMark\@arabic\c@subsubsection
21774 }
21775 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21776 \renewcommand*{\thesubparagraph}{%
21777   \theparagraph\@SepMark\@arabic\c@subparagraph
21778 }
21779 \renewenvironment{thebibliography}[1]{%
21780   \if@bib@break@
21781     \bib@beginhook
21782   \else
21783     \bib@heading
21784     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21785       \noindent\bibpreamble\par\nobreak
21786     \fi\fi
21787     \bib@beginhook
21788     \bib@before@hook
21789   \fi
21790   \renewcommand{\BreakBibliography}[1]{%
21791     \@bib@break
21792     \end{thebibliography}%
21793     \begingroup ##1\endgroup
21794     \begin{thebibliography}{#1}
21795   }%
21796   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21797   \bidi@thebibliography@font@hook%
21798   \list{%
21799     \@biblabel{\@arabic\c@enumiv}%
21800   }{%
21801     \settowidth\labelwidth{\@biblabel{#1}}%
21802     \leftmargin\labelwidth
21803     \advance\leftmargin\labelsep
21804     \@openbib@code
21805     \if@bib@break@
21806       \edef\@tempa{%
21807         \noexpand\usecounter{enumiv}%
21808         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21809       }\@tempa
21810       \no@bib@break
21811     \else
21812       \usecounter{enumiv}%
21813     \fi
21814     \let\p@enumiv\@empty
21815     \renewcommand*{\theenumiv}{\@arabic\c@enumiv}%
21816   }%
21817   \sloppy\clubpenalty4000 \widowpenalty4000
21818   \sfcode`\.=\@m
21819 }{%
21820   \if@bib@break@
21821     \def\@noitemerr{%
21822       \@latex@warning{%
21823         \string\BreakBibliography\space at begin of `thebibliography'
21824         environment\MessageBreak
21825         or following \string\BreakBibliography}%

```



```

21826 }%
21827 \else
21828   \def\@noitemerr{%
21829     \@latex@warning{%
21830       Empty `thebibliography' environment or
21831       \string\BreakBibliography\MessageBreak
21832       before end of `thebibliography' environment}%
21833   }%
21834 \fi
21835 \endlist
21836 \if@bib@break@
21837 \else
21838   \bib@after@hook
21839   \let\bib@before@hook\@empty
21840   \let\bib@after@hook\@empty
21841 \fi
21842 \bib@endhook
21843 }
21844 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21845 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21846 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21847 \renewcommand\marginline[1]{%
21848   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21849 }
21850 \renewcommand{\@@makecaption}[3]{%
21851   \cap@margin
21852   \begingroup
21853     \ifonelinecaptions
21854     \def\stepcounter##1{\advance\value{##1}\@one}%
21855     \let\refstepcounter\stepcounter
21856     \let\label\@gobble
21857     \let\@footnotetext=\@gobble
21858     \let\@LTRfootnotetext=\@gobble
21859     \let\@RTLfootnotetext=\@gobble
21860     \let\hypertarget\@gobbletwo
21861     \edef\xnewline{%
21862       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21863         Workaround for not recommended usage of \string\ or\MessageBreak
21864         \string\newline in caption text
21865       }%
21866       \hspace*{\linewidth}\hspace{1sp}%
21867     }%
21868     \unexpanded\expandafter{\@xnewline}%
21869   }%
21870   \edef\@xcentercr{%
21871     \unexpanded{\ClassInfo{\KOMAClassName}}{%
21872       Workaround for not recommended usage of \string\ or\MessageBreak
21873       \string\newline in caption text
21874     }%
21875     \hspace*{\linewidth}\hspace{1sp}%
21876   }%
21877   \unexpanded\expandafter{\@xcentercr}%
21878 }%
21879 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%

```



```

21880     \ifdim\@tempdima>\cap@width
21881       \aftergroup\scr@makemultilinecaption
21882     \else
21883       \aftergroup\scr@makesinglelinecaption
21884     \fi
21885   \else
21886     \aftergroup\scr@makemultilinecaption
21887   \fi
21888 \endgroup
21889 {#1}{#2}{#3}%
21890 }
21891 \renewcommand{\scr@makesinglelinecaption}[3]{%
21892   {%
21893     \usefontofkomafont{caption}{%
21894       \hb@xt@\hsize{%
21895         \cap@left
21896         \if@RTL
21897           \beginR
21898         \fi
21899         \scr@@makesinglelinecaption{#1}{#2}{#3}%
21900         \if@RTL
21901         \endR
21902         \fi
21903         \cap@right
21904       }\par\kern\dp\strutbox%
21905     }%
21906   }\kern-\dp\strutbox
21907 }
21908 \renewcommand{\@makecaption}[2]{%
21909   \if@captionabove
21910     \vskip\belowcaptionskip
21911   \else
21912     \vskip\abovecaptionskip
21913   \fi
21914   \@makecaption\@firstofone{#1}{#2}%
21915   \if@captionabove
21916     \vskip\abovecaptionskip
21917   \else
21918     \vskip\belowcaptionskip
21919   \fi
21920 }
21921
21922 \renewcommand{\scr@@makesinglelinecaption}[3]{%
21923   {\usekomafont{caption}{\strut\ignorespaces
21924     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21925     \ignorespaces #3\unskip}}%
21926 }
21927
21928 \renewcommand{\scr@makemultilinecaption}[3]{%
21929   {%
21930     \usefontofkomafont{caption}{%
21931       \hb@xt@\hsize{%
21932         \cap@left
21933         \vbox{\hsize\cap@width\linewidth\hsize

```



```

21934 \scr@ifundefinedorrelax{@capttype}{%
21935 \ClassWarning{\KOMAClassName}{%
21936   \string\caption' outside float.\MessageBreak
21937   Seems you are using \string\caption' outside a
21938   float.\MessageBreak
21939   Maybe you are using a package that uses
21940   \string\@makecaption'\MessageBreak
21941   without setting \string\@capttype' before.\MessageBreak
21942   Because I cannot detect the caption type, I'm using\MessageBreak
21943   the empty one.%
21944 }%
21945 \let\@capttype\@empty
21946 }{}%
21947 \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21948   \@nameuse{ragged\@capttype caption}%
21949 }%
21950 \ifdofullc@p
21951   \@hangfrom{%
21952     \strut
21953     \scr@smashdp{%
21954       #1{%
21955         \usekomafont{caption}{%
21956           \usekomafont{captionlabel}{#2\captionformat}%
21957         }%
21958       }%
21959     }%
21960   }%
21961   {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21962 \else
21963   \ifdim\cap@indent<\z@
21964     \strut
21965     #1{%
21966       {\usekomafont{caption}{%
21967         \usekomafont{captionlabel}{#2\captionformat}%
21968       }%
21969     }\par}%
21970     \noindent{\usekomafont{caption}{%
21971       \hspace*{-\cap@indent}#3\scr@endstrut
21972     }}\par}%
21973   \else
21974     \if@capbreak
21975       \strut
21976       #1{%
21977         {\usekomafont{caption}{%
21978           \usekomafont{captionlabel}{#2\captionformat}%
21979         }%
21980       }\par}%
21981       \noindent\@hangfrom{\hspace*{\cap@indent}}%
21982       {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21983     \else
21984       \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21985       {%
21986         \hspace{-\cap@indent}%
21987         \scr@smashdp{%

```



```

21988             #1{\usekomafont{caption}{%
21989                 \usekomafont{captionlabel}{#2\captionformat}%
21990                 }%
21991             }%
21992         }%
21993         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21994     }%
21995     \fi
21996     \fi
21997     \fi
21998     }%
21999     \cap@right
22000     }\par\kern\dp\strutbox
22001 }%
22002 }\kern-\dp\strutbox
22003 }
22004
22005 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22006 \if@komalongtable
22007     \renewcommand{\LT@makecaption}[3]{%
22008         \noalign{%
22009             \if@captionabove
22010                 \vskip\belowcaptionskip
22011             \else
22012                 \vskip\abovecaptionskip
22013             \fi
22014         }%
22015         \LT@mc\LT@cols c{%
22016             \hbox to\z@{\hss\parbox[t]\linewidth{%
22017                 \def\@c@p@t@y{table}%
22018                 \@makecaption{#1}{#2}{#3}%
22019                 \endgraf
22020                 \if@captionabove
22021                     \vskip\abovecaptionskip
22022                 \else
22023                     \vskip\belowcaptionskip
22024                 \fi
22025             }%
22026             \hss
22027         }%
22028     }%
22029 }%
22030 \renewcommand*\scr@LT@array}{%
22031 \let\scr@LT@array=\LT@array
22032 \renewcommand*\LT@array{%
22033     \let\scr@caption=\LT@caption
22034     \def\captionabove{\noalign{\global\@captionabovetrue}%
22035         \scr@caption}%
22036     \def\captionbelow{\noalign{\global\@captionabovefalse}%
22037         \scr@caption}%
22038     \if@tablecaptionabove
22039         \let\LT@caption=\captionabove
22040     \else
22041         \let\LT@caption=\captionbelow

```



```

22042     \fi
22043     \scr@LT@array
22044   }%
22045   \ClassInfo{\KOMAClassName}{%
22046     longtable captions redefined%
22047   }%
22048 \fi
22049 }
22050
22051 \CloneTOCEntryStyle{tocline}{part}
22052 \TOCEntryStyleStartInitCode{part}{%
22053   \expandafter\renewcommand%
22054   \csname scr@tso@#1@linefill\endcsname{\hfill}%
22055   \expandafter\renewcommand%
22056   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22057   \expandafter\renewcommand%
22058   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22059     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}}%
22060   \expandafter\renewcommand\expandafter*%
22061   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22062 }
22063
22064 \CloneTOCEntryStyle{tocline}{section}
22065 \TOCEntryStyleStartInitCode{section}{%
22066   \expandafter\renewcommand%
22067   \csname scr@tso@#1@linefill\endcsname{%
22068     \if@sectionentrywithdots
22069       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22070     \else
22071       \hfill
22072     \fi
22073   }%
22074   \expandafter\renewcommand%
22075   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22076   \expandafter\renewcommand%
22077   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22078     \expandafter\renewcommand\expandafter*%
22079     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22080   }
22081
22082 \CloneTOCEntryStyle{tocline}{subsection}
22083 \TOCEntryStyleStartInitCode{subsection}{%
22084   \expandafter\renewcommand%
22085   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22086   \expandafter\renewcommand%
22087   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22088     {\normalfont\normalcolor ##1}}%
22089 }
22090
22091 \CloneTOCEntryStyle{subsection}{default}
22092
22093 \DeclareSectionCommand[%
22094   style=section,%
22095   level=1,%

```



```

22096 indent=\z@,%
22097 beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22098 afterskip=2.3ex \@plus .2ex,%
22099 tocstyle=section,%
22100 tocindent=0pt,%
22101 tocnumwidth=1.5em%
22102 ]{section}
22103 \DeclareSectionCommand[%
22104 style=part,%
22105 level=\z@,%
22106 tocstyle=part,%
22107 toplevel=\m@ne,%
22108 tocindent=\z@,%
22109 tocnumwidth=2em%
22110 ]{part}
22111 \DeclareSectionCommand[%
22112 style=section,%
22113 level=2,%
22114 indent=\z@,%
22115 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22116 afterskip=1.5ex \@plus .2ex,%
22117 tocstyle=subsection,%
22118 tocindent=1.5em,%
22119 tocnumwidth=2.3em%
22120 ]{subsection}
22121 \DeclareSectionCommand[%
22122 style=section,%
22123 level=3,%
22124 indent=\z@,%
22125 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22126 afterskip=1.5ex \@plus .2ex,%
22127 tocstyle=subsection,%
22128 tocindent=3.8em,%
22129 tocnumwidth=3.2em%
22130 ]{subsubsection}
22131 \DeclareSectionCommand[%
22132 style=section,%
22133 level=4,%
22134 indent=\z@,%
22135 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22136 afterskip=-1em,%
22137 tocstyle=subsection,%
22138 tocindentfollows=subsubsection,%
22139 tocindent=7.0em,%
22140 tocnumwidth=4.1em%
22141 ]{paragraph}
22142 \DeclareSectionCommand[%
22143 style=section,%
22144 level=5,%
22145 indent=\scr@parindent,%
22146 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22147 afterskip=-1em,%
22148 tocstyle=subsection,%
22149 tocindent=10em,%

```



```

22150 tocnumwidth=5em%
22151 ]{subparagraph}

```

## 142 File scrbook-xetex-bidi.def

```

22152 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22153 \newcommand{\scr@saved@LTRfootnotetext}{}
22154 \newcommand{\scr@saved@RTLfootnotetext}{}
22155 \let\scr@saved@footnotetext\@footnotetext
22156 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22157 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22158 \renewcommand{\@footnotetext}[1]{%
22159   \scr@saved@footnotetext{#1}%
22160   \csname FN@mfb@prepare\endcsname
22161 }
22162 \renewcommand{\@LTRfootnotetext}[1]{%
22163   \scr@saved@LTRfootnotetext{#1}%
22164   \csname FN@mfb@prepare\endcsname
22165 }
22166 \renewcommand{\@RTLfootnotetext}[1]{%
22167   \scr@saved@RTLfootnotetext{#1}%
22168   \csname FN@mfb@prepare\endcsname
22169 }
22170 \renewcommand\deffootnote[4][]{%
22171   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22172     \long\def\@makefntext##1{%
22173       \ExecuteDoHook{footnote/text/begin}%
22174       \raggedfootnote
22175       \if@RTL
22176         \rightskip
22177       \else
22178         \leftskip
22179       \fi
22180       #2
22181       \l@addto@macro\@trivlist{%
22182         \ifnum\@listdepth=\@ne\advance
22183           \if@RTL
22184             \rightmargin #2\relax
22185           \else
22186             \leftmargin #2\relax
22187           \fi
22188         \fi
22189       }%
22190       \parindent #3\noindent
22191       \IfArgIsEmpty{#1}{}{}%
22192       \hskip \dimexpr #1-#2\relax
22193     }%
22194     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22195     \ExecuteDoHook{footnote/text/end}%
22196   }%
22197 \else
22198   \ClassInfo{\KOMAClassName}{%
22199     Using old \string\@makefntext\space due to compatibility
22200     level\MessageBreak

```





```

22201     less than 3.22}%
22202 \long\def\@makefnmark##1{%
22203   \setlength{\@tempdimc}{#3}%
22204   \def\@tempa{#1}\ifx\@tempa\@empty
22205     \setpar{\@par
22206       \@tempdima = \hsize
22207       \addtolength{\@tempdima}{-#2}%
22208       \if@RTL
22209         \parshape \@ne \z@ \@tempdima
22210       \else
22211         \parshape \@ne #2 \@tempdima
22212       \fi
22213     }%
22214   \else
22215     \addtolength{\@tempdimc}{#2}%
22216     \addtolength{\@tempdimc}{-#1}%
22217     \setpar{\@par
22218       \@tempdima = \hsize
22219       \addtolength{\@tempdima}{-#1}%
22220       \@tempdimb = \hsize
22221       \addtolength{\@tempdimb}{-#2}%
22222       \if@RTL
22223         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22224       \else
22225         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22226       \fi
22227     }%
22228   \fi
22229   \par
22230   \parindent\@tempdimc\noindent
22231   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22232 }%
22233 \fi
22234 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22235 }
22236 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22237 \renewcommand*\left@footnoterule{%
22238   \normalsize\ftn@rule@test@values
22239   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22240   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22241   {\usekomafont{footnoterule}{%
22242     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22243   \kern 2.6\p@}
22244 \renewcommand*\right@footnoterule{%
22245   \normalsize\ftn@rule@test@values
22246   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22247   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22248   {\usekomafont{footnoterule}{%
22249     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
22250     \kern 2.6\p@}
22251 \renewcommand*\maketitle[1][1]{%
22252 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22253 \else
22254 \def\and{%

```



```

22255     \end{tabular}%
22256     \hskip 1em \@plus.17fil%
22257     \begin{tabular}[t]{c}%
22258   }%
22259 \fi
22260 \if@titlepage
22261   \begin{titlepage}
22262     \setcounter{page}{%
22263       #1%
22264     }%
22265   \if@titlepageiscoverpage
22266     \edef\tITLEPAGE@restore{%
22267       \noexpand\endgroup
22268       \noexpand\global\noexpand\@colht\the\@colht
22269       \noexpand\global\noexpand\@colroom\the\@colroom
22270       \noexpand\global\vsizethe\vsizethe
22271       \noexpand\global\noexpand\@titlepageiscoverpagefalse
22272       \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22273     }%
22274     \begingroup
22275     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22276     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22277     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22278     \textwidth=\dimexpr
22279     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22280     \textheight=\dimexpr
22281     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22282     \headheight=0pt
22283     \headsep=0pt
22284     \footskip=\baselineskip
22285     \@colht=\textheight
22286     \@colroom=\textheight
22287     \vsizethe=\textheight
22288     \columnwidth=\textwidth
22289     \hsizethe=\columnwidth
22290     \linewidth=\hsizethe
22291   \else
22292     \let\tITLEPAGE@restore\relax
22293 \fi
22294 \let\footnotesize\small
22295 \let\right@footnoterule\relax
22296 \let\left@footnoterule\relax
22297 \let\textwidth@footnoterule\relax
22298 \let\footnote\thanks
22299 \let\LTRfootnote\LTRthanks
22300 \let\RTLfootnote\RTLthanks
22301 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22302 \let\@oldmakefnmark\@makefnmark
22303 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22304 \ifx\@extratitle\@empty
22305   \ifx\@frontispiece\@empty
22306   \else
22307     \if@twoside\mbox{}\next@tpage\fi
22308     \noindent\@frontispiece\next@tdpage

```



```

22309     \fi
22310   \else
22311     \noindent\@extratitle
22312     \ifx\@frontispiece\@empty
22313     \else
22314       \next@tpage
22315       \noindent\@frontispiece
22316     \fi
22317     \next@tdpage
22318   \fi
22319   \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22320   \ifx\@titlehead\@empty \else
22321     \begin{minipage}[t]{\textwidth}%
22322       \usekomafont{titlehead}{\@titlehead\par}%
22323     \end{minipage}\par
22324   \fi
22325   \null\vfill
22326   \begin{center}
22327     \ifx\@subject\@empty \else
22328       {\usekomafont{subject}{\@subject\par}}%
22329       \vskip 3em
22330     \fi
22331     {\usekomafont{title}{\huge \@title\par}}%
22332     \vskip 1em
22333     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22334     \vskip 2em
22335     {%
22336       \usekomafont{author}{%
22337         \lineskip 0.75em
22338         \begin{tabular}[t]{c}
22339           \@author
22340         \end{tabular}\par
22341       }%
22342     }%
22343     \vskip 1.5em
22344     {\usekomafont{date}{\@date \par}}%
22345     \vskip \z@ \@plus3fill
22346     {\usekomafont{publishers}{\@publishers \par}}%
22347     \vskip 3em
22348   \end{center}\par
22349   \@thanks\global\let\@thanks\@empty
22350   \vfill\null
22351   \if@twoside
22352     \@tempwatrue
22353     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22354     \else
22355       \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22356         \@tempwafalse
22357       \fi\fi
22358     \fi
22359     \if@tempswa
22360       \next@tpage
22361       \begin{minipage}[t]{\textwidth}
22362         \@uppertitleback

```



```

22363         \end{minipage}\par
22364         \vfill
22365         \begin{minipage}[b]{\textwidth}
22366             \@lowertitleback
22367         \end{minipage}\par
22368         \@thanks\global\let\@thanks\@empty
22369     \fi
22370 \else
22371     \ifx\@uppertitleback\@empty\else
22372         \ClassWarning{\KOMAClassName}{%
22373             non empty \string\uppertitleback\space ignored
22374             by \string\maketitle\MessageBreak
22375             in `twoside=false' mode%
22376         }%
22377     \fi
22378     \ifx\@lowertitleback\@empty\else
22379         \ClassWarning{\KOMAClassName}{%
22380             non empty \string\lowertitleback\space ignored
22381             by \string\maketitle\MessageBreak
22382             in `twoside=false' mode%
22383         }%
22384     \fi
22385 \fi
22386 \ifx\@dedication\@empty
22387 \else
22388     \next@tdpage\null\vfill
22389     {\centering\usekomafont{dedication}{\@dedication \par}}%
22390     \vskip \z@ \@plus3fill
22391     \@thanks\global\let\@thanks\@empty
22392     \cleardoubleemptypage
22393 \fi
22394 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22395 \end{titlepage}
22396 \else
22397     \par
22398     \@tempcnta=%
22399     #1%
22400     \relax\ifnum\@tempcnta=1\else
22401         \ClassWarning{\KOMAClassName}{%
22402             Optional argument of \string\maketitle\space ignored\MessageBreak
22403             in `titlepage=false' mode%
22404         }%
22405     \fi
22406     \ifx\@uppertitleback\@empty\else
22407         \ClassWarning{\KOMAClassName}{%
22408             non empty \string\uppertitleback\space ignored
22409             by \string\maketitle\MessageBreak
22410             in `titlepage=false' mode%
22411         }%
22412     \fi
22413     \ifx\@lowertitleback\@empty\else
22414         \ClassWarning{\KOMAClassName}{%
22415             non empty \string\lowertitleback\space ignored
22416             by \string\maketitle\MessageBreak

```



```

22417         in `titlepage=false' mode%
22418     }%
22419 \fi
22420 \begingroup
22421 \let\titlepage@restore\relax
22422 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22423 \let\@oldmakefnmark\@makefnmark
22424 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
22425 \next@tdpage
22426 \if@twocolumn
22427     \ifnum \col@number=\@one
22428         \ifx\@extratitle\@empty
22429             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22430         \else
22431             \@makeextratitle
22432         \fi
22433         \ifx\@frontispiece\@empty
22434             \ifx\@extratitle\@empty\else\next@tdpage\fi
22435         \else
22436             \next@tpage
22437             \@makefrontispiece
22438             \next@tdpage
22439         \fi
22440         \@maketitle
22441     \else
22442         \ifx\@extratitle\@empty
22443             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22444         \else
22445             \twocolumn[\@makeextratitle]%
22446         \fi
22447         \ifx\@frontispiece\@empty
22448             \ifx\@extratitle\@empty\else\next@tdpage\fi
22449         \else
22450             \next@tpage
22451             \twocolumn[\@makefrontispiece]%
22452             \next@tdpage
22453         \fi
22454         \twocolumn[\@maketitle]%
22455     \fi
22456 \else
22457     \ifx\@extratitle\@empty
22458         \ifx\@frontispiece\@empty\else \mbox{}\fi
22459     \else
22460         \@makeextratitle
22461     \fi
22462     \ifx\@frontispiece\@empty
22463         \ifx\@extratitle\@empty\else\next@tdpage\fi
22464     \else
22465         \next@tpage
22466         \@makefrontispiece
22467         \next@tdpage
22468     \fi
22469     \@maketitle
22470 \fi

```



```

22471     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22472     \@thanks\global\let\@thanks\@empty
22473   \endgroup
22474 \fi
22475 \setcounter{footnote}{0}%
22476 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22477   \let\thanks\relax
22478   \let\LTRthanks\relax
22479   \let\RTLthanks\relax
22480   \let\maketitle\relax
22481   \let\@maketitle\relax
22482   \global\let\@thanks\@empty
22483   \global\let\@author\@empty
22484   \global\let\@date\@empty
22485   \global\let\@title\@empty
22486   \global\let\@subtitle\@empty
22487   \global\let\@extratitle\@empty
22488   \global\let\@frontispiece\@empty
22489   \global\let\@titlehead\@empty
22490   \global\let\@subject\@empty
22491   \global\let\@publishers\@empty
22492   \global\let\@uppertitleback\@empty
22493   \global\let\@lowertitleback\@empty
22494   \global\let\@dedication\@empty
22495   \global\let\author\relax
22496   \global\let\title\relax
22497   \global\let\extratitle\relax
22498   \global\let\titlehead\relax
22499   \global\let\subject\relax
22500   \global\let\publishers\relax
22501   \global\let\uppertitleback\relax
22502   \global\let\lowertitleback\relax
22503   \global\let\dedication\relax
22504   \global\let\date\relax
22505 \fi
22506 \global\let\and\relax
22507 }%
22508 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22509 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22510 \renewcommand*\thesection{%
22511   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22512     \if@mainmatter\thechapter\@SepMark\fi
22513   \else
22514     \thechapter\@SepMark%
22515   \fi
22516   \@arabic\c@section
22517 }
22518 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
22519 \renewcommand*\thesubsubsection{\thesubsection}
22520 \thesubsection\@SepMark\@arabic\c@subsubsection
22521 }
22522 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22523 \renewcommand*\thesubparagraph{-}
22524 \theparagraph\@SepMark\@arabic\c@subparagraph

```



```

22525 }
22526 \expandafter\ifnum\scr@v@is@le{2.97d}%
22527   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22528 \fi
22529 \expandafter\ifnum\scr@v@is@le{2.97d}%
22530   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22531 \fi
22532 \renewcommand*\{theequation}\{%
22533   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22534     \if@mainmatter\thechapter\@SepMark\fi
22535   \else
22536     \thechapter\@SepMark%
22537   \fi
22538   \@arabic\c@equation
22539 }
22540 \renewenvironment{thebibliography}[1]{%
22541   \if@bib@break@
22542     \bib@beginhook
22543   \else
22544     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22545       \setchapterpreamble{\bibpreamble}%
22546     \fi\fi
22547     \bib@heading
22548     \bib@beginhook
22549     \bib@before@hook
22550   \fi
22551   \renewcommand{\BreakBibliography}[1]{%
22552     \@bib@break
22553     \end{thebibliography}%
22554     \begingroup ##1\endgroup
22555     \begin{thebibliography}#{1}
22556   }%
22557   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22558   \bidi@thebibliography@font@hook%
22559   \list{}
22560   \@biblabel{\@arabic\c@enumiv}%
22561 }{%
22562   \settowidth\labelwidth{\@biblabel{#1}}%
22563   \leftmargin\labelwidth
22564   \advance\leftmargin\labelsep
22565   \@openbib@code
22566   \if@bib@break@
22567     \edef\@tempa{%
22568       \noexpand\usecounter{enumiv}%
22569       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22570     }\@tempa
22571     \no@bib@break
22572   \else
22573     \usecounter{enumiv}%
22574   \fi
22575   \let\p@enumiv\@empty
22576   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22577 }%
22578 \sloppy\clubpenalty4000 \widowpenalty4000

```



```

22579 \sfcodes\.\=@m
22580 }{%
22581 \if@bib@break@
22582   \def\@noitemerr{%
22583     \@latex@warning{%
22584       \string\BreakBibliography\space at begin of `thebibliography'
22585       environment\MessageBreak
22586       or following \string\BreakBibliography}%
22587     }%
22588   \else
22589     \def\@noitemerr{%
22590       \@latex@warning{%
22591         Empty `thebibliography' environment or
22592         \string\BreakBibliography\MessageBreak
22593         before end of `thebibliography' environment}%
22594       }%
22595     \fi
22596   \endlist
22597 \if@bib@break@
22598 \else
22599   \bib@after@hook
22600   \let\bib@before@hook\@empty
22601   \let\bib@after@hook\@empty
22602 \fi
22603 \bib@endhook
22604 }
22605 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22606 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22607 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22608 \renewcommand\marginline[1]{%
22609   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22610 }
22611 \renewcommand{\@makecaption}[3]{%
22612   \cap@margin
22613   \begingroup
22614     \ifonelinecaptions
22615       \def\stepcounter##1{\advance\value{##1}\@one}%
22616       \let\refstepcounter\stepcounter
22617       \let\label\@gobble
22618       \let\@footnotetext=\@gobble
22619       \let\@LTRfootnotetext=\@gobble
22620       \let\@RTLfootnotetext=\@gobble
22621       \let\hypertarget\@gobbletwo
22622       \edef\@xnewline{%
22623         \unexpanded{\ClassInfo{\KOMAClassName}}{%
22624           Workaround for not recommended usage of \string\ or\MessageBreak
22625           \string\newline in caption text
22626         }%
22627         \hspace*{\linewidth}\hspace{1sp}%
22628       }%
22629       \unexpanded\expandafter{\@xnewline}%
22630     }%
22631     \edef\@xcentercr{%
22632       \unexpanded{\ClassInfo{\KOMAClassName}}{%

```





```

22633         Workaround for not recommended usage of \string\\ or\MessageBreak
22634         \string\newline in caption text
22635     }%
22636     \hspace*{\linewidth}\hspace{1sp}%
22637 }%
22638 \unexpanded\expandafter{\@xcentercr}%
22639 }%
22640 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22641 \ifdim\@tempdima>\cap@width
22642     \aftergroup\scr@makemultilinecaption
22643 \else
22644     \aftergroup\scr@makesinglelinecaption
22645 \fi
22646 \else
22647     \aftergroup\scr@makemultilinecaption
22648 \fi
22649 \endgroup
22650 {#1}{#2}{#3}%
22651 }
22652 \renewcommand{\scr@makesinglelinecaption}[3]{%
22653 {%
22654     \usefontofkomafont{caption}{%
22655     \hb@xt@{\hszize{%
22656     \cap@left
22657     \if@RTL
22658     \beginR
22659     \fi
22660     \scr@makesinglelinecaption{#1}{#2}{#3}%
22661     \if@RTL
22662     \endR
22663     \fi
22664     \cap@right
22665     }\par\kern\dp\strutbox%
22666     }%
22667     }\kern-\dp\strutbox
22668 }
22669 \renewcommand{\@makecaption}[2]{%
22670 \if@captionabove
22671     \vskip\belowcaptionskip
22672 \else
22673     \vskip\abovecaptionskip
22674 \fi
22675 \@makecaption\@firstofone{#1}{#2}%
22676 \if@captionabove
22677     \vskip\abovecaptionskip
22678 \else
22679     \vskip\belowcaptionskip
22680 \fi
22681 }
22682
22683 \renewcommand{\scr@makesinglelinecaption}[3]{%
22684 {%
22685     \usekomafont{caption}{\strut\ignorespaces
22686     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22687     \ignorespaces #3\unskip}}%

```



```

22687 }
22688
22689 \renewcommand{\scr@makemultilinecaption}[3]{%
22690   {%
22691     \usefontofkomafont{caption}{%
22692       \hb@xt@\hsize{%
22693         \cap@left
22694         \vbox{\hsize\cap@width\linewidth\hsize
22695           \scr@ifundefinedorrelax{@capttype}{%
22696             \ClassWarning{\KOMAClassName}{%
22697               `string\caption' outside float.\MessageBreak
22698               Seems you are using `string\caption' outside a
22699               float.\MessageBreak
22700               Maybe you are using a package that uses
22701               `string\@makecaption'\MessageBreak
22702               without setting `string\@capttype' before.\MessageBreak
22703               Because I cannot detect the caption type, I'm using\MessageBreak
22704               the empty one.%
22705             }%
22706             \let\@capttype\@empty
22707           }{}%
22708           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
22709             \@nameuse{ragged\@capttype caption}%
22710           }%
22711           \ifdofullc@p
22712             \@hangfrom{%
22713               \strut
22714               \scr@smashdp{%
22715                 #1{%
22716                   \usekomafont{caption}{%
22717                     \usekomafont{captionlabel}{#2\captionformat}%
22718                   }%
22719                 }%
22720               }%
22721             }%
22722             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22723           \else
22724             \ifdim\cap@indent<\z@
22725               \strut
22726               #1{%
22727                 {\usekomafont{caption}{%
22728                   \usekomafont{captionlabel}{#2\captionformat}%
22729                 }%
22730               }\par}%
22731             \noindent{\usekomafont{caption}{%
22732               \hspace*{-\cap@indent}#3\scr@endstrut
22733             }}\par}%
22734           \else
22735             \if@capbreak
22736               \strut
22737               #1{%
22738                 {\usekomafont{caption}{%
22739                   \usekomafont{captionlabel}{#2\captionformat}%
22740                 }

```



```

22741         }\par}%
22742         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22743         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22744     \else
22745     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22746     {%
22747         \hspace{-\cap@indent}%
22748         \scr@smashdp{%
22749             #1{\usekomafont{caption}{%
22750                 \usekomafont{captionlabel}{#2\captionformat}}%
22751             }%
22752         }%
22753     }%
22754     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22755 }%
22756     \fi
22757     \fi
22758     \fi
22759 }%
22760     \cap@right
22761 }\par\kern\dp\strutbox
22762 }%
22763 }\kern-\dp\strutbox
22764 }
22765
22766
22767 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22768 \if@komalongtable
22769     \renewcommand{\LT@makecaption}[3]{%
22770         \noalign{%
22771             \if@captionabove
22772                 \vskip\belowcaptionskip
22773             \else
22774                 \vskip\abovecaptionskip
22775             \fi
22776         }%
22777         \LT@mc@l\LT@cols c{%
22778             \hbox to\z@{\hss\parbox[t]{\linewidth}{%
22779                 \def\@capttype{table}%
22780                 \@@makecaption{#1}{#2}{#3}%
22781                 \endgraf
22782                 \if@captionabove
22783                     \vskip\abovecaptionskip
22784                 \else
22785                     \vskip\belowcaptionskip
22786                 \fi
22787             }%
22788             \hss
22789         }%
22790     }%
22791 }%
22792 \renewcommand*{\scr@LT@array}{}%
22793 \let\scr@LT@array=\LT@array
22794 \renewcommand*{\LT@array}{%

```



```

22795 \let\scr@caption=\LT@caption
22796 \def\captionabove{\noalign{\global\@captionabovetrue}%
22797 \scr@caption}%
22798 \def\captionbelow{\noalign{\global\@captionabovefalse}%
22799 \scr@caption}%
22800 \if@tablecaptionabove
22801 \let\LT@caption=\captionabove
22802 \else
22803 \let\LT@caption=\captionbelow
22804 \fi
22805 \scr@LT@array
22806 }%
22807 \ClassInfo{\KOMAClassName}{%
22808 longtable captions redefined%
22809 }%
22810 \fi
22811 }
22812
22813 \CloneTOCEntryStyle{tocline}{part}
22814 \TOCEntryStyleStartInitCode{part}{%
22815 \expandafter\renewcommand%
22816 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22817 \expandafter\renewcommand%
22818 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22819 \expandafter\renewcommand%
22820 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22821 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22822 \expandafter\renewcommand\expandafter*%
22823 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22824 }
22825
22826 \CloneTOCEntryStyle{tocline}{chapter}
22827 \TOCEntryStyleStartInitCode{chapter}{%
22828 \expandafter\renewcommand%
22829 \csname scr@tso@#1@linefill\endcsname{%
22830 \if@chapterentrywithdots
22831 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22832 \else
22833 \hfill
22834 \fi
22835 }%
22836 \expandafter\renewcommand%
22837 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22838 \expandafter\renewcommand%
22839 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22840 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22841 \expandafter\renewcommand\expandafter*%
22842 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22843 }
22844
22845 \CloneTOCEntryStyle{tocline}{section}
22846 \TOCEntryStyleStartInitCode{section}{%
22847 \expandafter\renewcommand%
22848 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%

```



```

22849     \expandafter\renewcommand%
22850     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22851         {\normalfont\normalcolor ##1}}%
22852 }
22853
22854 \CloneTOCEntryStyle{section}{default}
22855
22856 \DeclareSectionCommand[%
22857     style=chapter,%
22858     level=\z@,%
22859     pagestyle=plain,%
22860     tocstyle=chapter,%
22861     tocindent=\z@,%
22862     tocnumwidth=1.5em%
22863 ]{chapter}
22864 \DeclareSectionCommand[%
22865     style=section,%
22866     level=1,%
22867     indent=\z@,%
22868     beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22869     afterskip=2.3ex \@plus .2ex,%
22870     tocstyle=section,%
22871     tocindentfollows=chapter,%
22872     tocindent=1.5em,%
22873     tocnumwidth=2.3em%
22874 ]{section}
22875 \DeclareSectionCommand[%
22876     style=part,%
22877     level=\m@ne,%
22878     pagestyle=plain,%
22879     tocstyle=part,%
22880     toplevel=\m@ne,%
22881     tocindent=\z@,%
22882     tocnumwidth=2em%
22883 ]{part}
22884 \DeclareSectionCommand[%
22885     style=section,%
22886     level=2,%
22887     indent=\z@,%
22888     beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22889     afterskip=1.5ex \@plus .2ex,%
22890     tocstyle=section,%
22891     tocindent=3.8em,%
22892     tocnumwidth=3.2em%
22893 ]{subsection}
22894 \DeclareSectionCommand[%
22895     style=section,%
22896     level=3,%
22897     indent=\z@,%
22898     beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22899     afterskip=1.5ex \@plus .2ex,%
22900     tocstyle=section,%
22901     tocindent=7.0em,%
22902     tocnumwidth=4.1em%

```



```

22903 ]{subsubsection}
22904 \DeclareSectionCommand[%
22905   style=section,%
22906   level=4,%
22907   indent=\z@,%
22908   beforekip=3.25ex \@plus1ex \@minus.2ex,%
22909   afterskip=-1em,%
22910   tocindentfollows=subsubsection,%
22911   tocstyle=section,%
22912   tocindent=10em,%
22913   tocnumwidth=5em%
22914 ]{paragraph}
22915 \DeclareSectionCommand[%
22916   style=section,%
22917   level=5,%
22918   indent=\scr@parindent,%
22919   beforekip=3.25ex \@plus1ex \@minus.2ex,%
22920   afterskip=-1em,%
22921   tocstyle=section,%
22922   tocindent=12em,%
22923   tocnumwidth=6em%
22924 ]{subparagraph}

```

## 143 File `scrreprt-xetex-bidi.def`

```

22925 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22926 \newcommand{\scr@saved@LTRfootnotetext}{}
22927 \newcommand{\scr@saved@RTLfootnotetext}{}
22928 \let\scr@saved@footnotetext\@footnotetext
22929 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22930 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22931 \renewcommand{\@footnotetext}[1]{%
22932   \scr@saved@footnotetext{#1}%
22933   \csname FN@mf@prepare\endcsname
22934 }
22935 \renewcommand{\@LTRfootnotetext}[1]{%
22936   \scr@saved@LTRfootnotetext{#1}%
22937   \csname FN@mf@prepare\endcsname
22938 }
22939 \renewcommand{\@RTLfootnotetext}[1]{%
22940   \scr@saved@RTLfootnotetext{#1}%
22941   \csname FN@mf@prepare\endcsname
22942 }
22943 \renewcommand\deffootnote[4][1]{%
22944   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22945     \long\def\@makefntext##1{%
22946       \ExecuteDoHook{footnote/text/begin}%
22947       \raggedfootnote
22948       \if@RTL
22949         \rightskip
22950       \else
22951         \leftskip
22952       \fi
22953       #2

```



```

22954 \l@addto@macro\@trivlist{%
22955 \ifnum\@listdepth=\@ne
22956 \if@RTL
22957 \advance\rightmargin #2\relax
22958 \else
22959 \advance\leftmargin #2\relax
22960 \fi
22961 \fi
22962 }%
22963 \parindent #3\noindent
22964 \IfArgIsEmpty{#1}{-}{%
22965 \hskip \dimexpr #1-#2\relax
22966 }%
22967 \ftn@font\hbox to \z@\{hss\@makefnmark\}##1%
22968 \ExecuteDoHook{footnote/text/end}%
22969 }%
22970 \else
22971 \ClassInfo{\KOMAClassName}{%
22972 Using old \string\@makefnmark\space due to compatibility
22973 level\MessageBreak
22974 less than 3.22}%
22975 \long\def\@makefnmark##1{%
22976 \setlength{\@tempdimc}{#3}%
22977 \def\@tempa{#1}\ifx\@tempa\@empty
22978 \setpar{\@@par
22979 \@tempdima = \hsize
22980 \addtolength{\@tempdima}{-#2}%
22981 \if@RTL
22982 \parshape \@ne \z@ \@tempdima
22983 \else
22984 \parshape \@ne #2 \@tempdima
22985 \fi
22986 }%
22987 \else
22988 \addtolength{\@tempdimc}{#2}%
22989 \addtolength{\@tempdimc}{-#1}%
22990 \setpar{\@@par
22991 \@tempdima = \hsize
22992 \addtolength{\@tempdima}{-#1}%
22993 \@tempdimb = \hsize
22994 \addtolength{\@tempdimb}{-#2}%
22995 \if@RTL
22996 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22997 \else
22998 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22999 \fi
23000 }%
23001 \fi
23002 \par
23003 \parindent\@tempdimc\noindent
23004 \ftn@font\hbox to \z@\{hss\@makefnmark\}##1%
23005 }%
23006 \fi
23007 \def\@makefnmark{\hbox{\ftn@font{#4}}}%

```



```

23008 }
23009 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
23010 \renewcommand*\left@footnoterule{%
23011   \normalsize\ftn@rule@test@values
23012   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23013   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23014   {\usekomafont{footnoterule}{%
23015     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
23016   \kern 2.6\p@}
23017 \renewcommand*\right@footnoterule{%
23018   \normalsize\ftn@rule@test@values
23019   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23020   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23021   {\usekomafont{footnoterule}{%
23022     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
23023     \kern 2.6\p@}
23024 \renewcommand*\maketitle[1][1]{%
23025   \expandafter\ifnum \curname scr@v@3.12\endcurname>\scr@compatibility\relax
23026   \else
23027     \def\and{%
23028       \end{tabular}}%
23029     \hskip 1em \@plus.17fil%
23030     \begin{tabular}[t]{c}%
23031     }%
23032   \fi
23033   \if@titlepage
23034     \begin{titlepage}
23035       \setcounter{page}{%
23036         #1%
23037       }%
23038     \if@titlepageiscoverpage
23039       \edef\tITLEPAGE@restore{%
23040         \noexpand\endgroup
23041         \noexpand\global\noexpand\@colht\the\@colht
23042         \noexpand\global\noexpand\@colroom\the\@colroom
23043         \noexpand\global\vsizethe\vsizethe
23044         \noexpand\global\noexpand\@titlepageiscoverpagefalse
23045         \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
23046       }%
23047     \begingroup
23048     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23049     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23050     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23051     \textwidth=\dimexpr
23052     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23053     \textheight=\dimexpr
23054     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23055     \headheight=0pt
23056     \headsep=0pt
23057     \footskip=\baselineskip
23058     \@colht=\textheight
23059     \@colroom=\textheight
23060     \vsizethe\textheight
23061     \columnwidth=\textwidth

```





```

23062     \hsize=\columnwidth
23063     \linewidth=\hsize
23064 \else
23065     \let\titlepage@restore\relax
23066 \fi
23067 \let\footnotesize\small
23068 \let\right@footnoterule\relax
23069 \let\left@footnoterule\relax
23070 \let\textwidth@footnoterule\relax
23071 \let\footnote\thanks
23072 \let\LTRfootnote\LTRthanks
23073 \let\RTLfootnote\RTLthanks
23074 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23075 \let\@oldmakefnmark\@makefnmark
23076 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23077 \ifx\@extratitle\@empty
23078     \ifx\@frontispiece\@empty
23079     \else
23080         \if@twoside\mbox{}\next@tpage\fi
23081         \noindent\@frontispiece\next@tdpage
23082     \fi
23083 \else
23084     \noindent\@extratitle
23085     \ifx\@frontispiece\@empty
23086     \else
23087         \next@tpage
23088         \noindent\@frontispiece
23089     \fi
23090     \next@tdpage
23091 \fi
23092 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
23093 \ifx\@titlehead\@empty \else
23094     \begin{minipage}[t]{\textwidth}%
23095         \usekomafont{titlehead}{\@titlehead\par}%
23096     \end{minipage}\par
23097 \fi
23098 \null\vfill
23099 \begin{center}
23100     \ifx\@subject\@empty \else
23101         {\usekomafont{subject}{\@subject\par}}%
23102         \vskip 3em
23103     \fi
23104     {\usekomafont{title}{\huge \@title\par}}%
23105     \vskip 1em
23106     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23107     \vskip 2em
23108     {%
23109         \usekomafont{author}{%
23110             \lineskip 0.75em
23111             \begin{tabular}[t]{c}
23112                 \@author
23113             \end{tabular}\par
23114         }%
23115     }%

```



```

23116     \vskip 1.5em
23117     {\usekomafont{date}{\@date \par}}%
23118     \vskip \z@ \@plus3fill
23119     {\usekomafont{publishers}{\@publishers \par}}%
23120     \vskip 3em
23121 \end{center}\par
23122 \@thanks\global\let\@thanks\@empty
23123 \vfill\null
23124 \if@twoside
23125     \@tempswatrue
23126     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23127     \else
23128         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23129             \@tempswafalse
23130         \fi\fi
23131     \fi
23132     \if@tempswa
23133         \next@tpage
23134         \begin{minipage}[t]{\textwidth}
23135             \@uppertitleback
23136         \end{minipage}\par
23137         \vfill
23138         \begin{minipage}[b]{\textwidth}
23139             \@lowertitleback
23140         \end{minipage}\par
23141         \@thanks\global\let\@thanks\@empty
23142     \fi
23143 \else
23144     \ifx\@uppertitleback\@empty\else
23145         \ClassWarning{\KOMAClassName}{%
23146             non empty \string\uppertitleback\space ignored
23147             by \string\maketitle\MessageBreak
23148             in `twoside=false' mode%
23149         }%
23150     \fi
23151     \ifx\@lowertitleback\@empty\else
23152         \ClassWarning{\KOMAClassName}{%
23153             non empty \string\lowertitleback\space ignored
23154             by \string\maketitle\MessageBreak
23155             in `twoside=false' mode%
23156         }%
23157     \fi
23158 \fi
23159 \ifx\@dedication\@empty
23160 \else
23161     \next@tdpage\null\vfill
23162     {\centering\usekomafont{dedication}{\@dedication \par}}%
23163     \vskip \z@ \@plus3fill
23164     \@thanks\global\let\@thanks\@empty
23165     \cleardoubleemptypage
23166 \fi
23167 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23168 \end{titlepage}
23169 \else

```



```

23170 \par
23171 \@tempcnta=%
23172 #1%
23173 \relax\ifnum\@tempcnta=1\else
23174 \ClassWarning{\KOMAClassName}{%
23175   Optional argument of \string\maketitle\space ignored\MessageBreak
23176   in `titlepage=false' mode%
23177 }%
23178 \fi
23179 \ifx\@uppertitleback\@empty\else
23180 \ClassWarning{\KOMAClassName}{%
23181   non empty \string\uppertitleback\space ignored
23182   by \string\maketitle\MessageBreak
23183   in `titlepage=false' mode%
23184 }%
23185 \fi
23186 \ifx\@lowertitleback\@empty\else
23187 \ClassWarning{\KOMAClassName}{%
23188   non empty \string\lowertitleback\space ignored
23189   by \string\maketitle\MessageBreak
23190   in `titlepage=false' mode%
23191 }%
23192 \fi
23193 \begingroup
23194 \let\titlepage@restore\relax
23195 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23196 \let\@oldmakefnmark\@makefnmark
23197 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23198 \next@tdpage
23199 \if@twocolumn
23200 \ifnum \col@number=\@ne
23201 \ifx\@extratitle\@empty
23202 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23203 \else
23204 \@makeextratitle
23205 \fi
23206 \ifx\@frontispiece\@empty
23207 \ifx\@extratitle\@empty\else\next@tdpage\fi
23208 \else
23209 \next@tpage
23210 \@makefrontispiece
23211 \next@tdpage
23212 \fi
23213 \@maketitle
23214 \else
23215 \ifx\@extratitle\@empty
23216 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23217 \else
23218 \twocolumn[\@makeextratitle]%
23219 \fi
23220 \ifx\@frontispiece\@empty
23221 \ifx\@extratitle\@empty\else\next@tdpage\fi
23222 \else
23223 \next@tpage

```



```

23224         \twocolumn[\@makefrontispiece]%
23225         \next@tdpage
23226         \fi
23227         \twocolumn[\@maketitle]%
23228         \fi
23229     \else
23230         \ifx\@extratitle\@empty
23231         \ifx\@frontispiece\@empty\else \mbox{}\fi
23232         \else
23233             \@makeextratitle
23234         \fi
23235         \ifx\@frontispiece\@empty
23236         \ifx\@extratitle\@empty\else\next@tdpage\fi
23237         \else
23238             \next@tpage
23239             \@makefrontispiece
23240             \next@tdpage
23241         \fi
23242         \@maketitle
23243         \fi
23244         \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23245         \@thanks\global\let\@thanks\@empty
23246     \endgroup
23247 \fi
23248 \setcounter{footnote}{0}%
23249 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23250     \let\thanks\relax
23251     \let\LTRthanks\relax
23252     \let\RTLthanks\relax
23253     \let\maketitle\relax
23254     \let\@maketitle\relax
23255     \global\let\@thanks\@empty
23256     \global\let\@author\@empty
23257     \global\let\@date\@empty
23258     \global\let\@title\@empty
23259     \global\let\@subtitle\@empty
23260     \global\let\@extratitle\@empty
23261     \global\let\@frontispiece\@empty
23262     \global\let\@titlehead\@empty
23263     \global\let\@subject\@empty
23264     \global\let\@publishers\@empty
23265     \global\let\@uppertitleback\@empty
23266     \global\let\@lowertitleback\@empty
23267     \global\let\@dedication\@empty
23268     \global\let\author\relax
23269     \global\let\title\relax
23270     \global\let\extratitle\relax
23271     \global\let\titlehead\relax
23272     \global\let\subject\relax
23273     \global\let\publishers\relax
23274     \global\let\uppertitleback\relax
23275     \global\let\lowertitleback\relax
23276     \global\let\dedication\relax
23277     \global\let\date\relax

```



```

23278 \fi
23279 \global\let\and\relax
23280 }%
23281 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23282 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23283 \renewcommand*\thesection{%
23284 \thechapter\@SepMark%
23285 \@arabic\c@section
23286 }
23287 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
23288 \renewcommand*\thesubsubsection{%
23289 \thesubsection\@SepMark\@arabic\c@subsubsection
23290 }
23291 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23292 \renewcommand*\thesubparagraph{%
23293 \theparagraph\@SepMark\@arabic\c@subparagraph
23294 }
23295 \expandafter\ifnum\scr@v@is@le{2.97d}%
23296 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23297 \fi
23298 \expandafter\ifnum\scr@v@is@le{2.97d}%
23299 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23300 \fi
23301 \renewcommand*\theequation{%
23302 \thechapter\@SepMark%
23303 \@arabic\c@equation
23304 }
23305 \renewenvironment{thebibliography}[1]{%
23306 \if@bib@break@
23307 \bib@beginhook
23308 \else
23309 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23310 \setchapterpreamble{\bibpreamble}%
23311 \fi\fi
23312 \bib@heading
23313 \bib@beginhook
23314 \bib@before@hook
23315 \fi
23316 \renewcommand{\BreakBibliography}[1]{%
23317 \@bib@break
23318 \end{thebibliography}%
23319 \begingroup ##1\endgroup
23320 \begin{thebibliography}{#1}
23321 }%
23322 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23323 \bidi@thebibliography@font@hook%
23324 \list{%
23325 \@biblabel{\@arabic\c@enumiv}%
23326 }-%
23327 \settowidth\labelwidth{\@biblabel{#1}}%
23328 \leftmargin\labelwidth
23329 \advance\leftmargin\labelsep
23330 \@openbib@code
23331 \if@bib@break@

```



```

23332     \edef\@tempa{%
23333         \noexpand\usecounter{enumiv}%
23334         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23335     }\@tempa
23336     \no@bib@break
23337 \else
23338     \usecounter{enumiv}%
23339 \fi
23340 \let\p@enumiv\@empty
23341 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23342 }%
23343 \sloppy\clubpenalty4000 \widowpenalty4000
23344 \sfcode`\.=\@m
23345 }{%
23346 \if@bib@break@
23347     \def\@noitemerr{%
23348         \@latex@warning{%
23349             \string\BreakBibliography\space at begin of `thebibliography'
23350             environment\MessageBreak
23351             or following \string\BreakBibliography}%
23352     }%
23353 \else
23354     \def\@noitemerr{%
23355         \@latex@warning{%
23356             Empty `thebibliography' environment or
23357             \string\BreakBibliography\MessageBreak
23358             before end of `thebibliography' environment}%
23359     }%
23360 \fi
23361 \endlist
23362 \if@bib@break@
23363 \else
23364     \bib@after@hook
23365     \let\bib@before@hook\@empty
23366     \let\bib@after@hook\@empty
23367 \fi
23368 \bib@endhook
23369 }
23370 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
23371 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
23372 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
23373 \renewcommand\marginline[1]{%
23374     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23375 }
23376 \renewcommand{\@makecaption}[3]{%
23377     \cap@margin
23378     \begingroup
23379         \ifonelinecaptions
23380             \def\stepcounter##1{\advance\value{##1}\@ne}%
23381             \let\refstepcounter\stepcounter
23382             \let\label\@gobble
23383             \let\@footnotetext=\@gobble
23384             \let\@LTRfootnotetext=\@gobble
23385             \let\@RTLfootnotetext=\@gobble

```



```

23386 \let\hypertarget\@gobbletwo
23387 \edef\@xnewline{%
23388   \unexpanded{\ClassInfo{\KOMAClassName}{%
23389     Workaround for not recommended usage of \string\\ or\MessageBreak
23390     \string\newline in caption text
23391   }}%
23392   \hspace*{\linewidth}\hspace{1sp}%
23393 }%
23394 \unexpanded\expandafter{\@xnewline}%
23395 }%
23396 \edef\@xcentercr{%
23397   \unexpanded{\ClassInfo{\KOMAClassName}{%
23398     Workaround for not recommended usage of \string\\ or\MessageBreak
23399     \string\newline in caption text
23400   }}%
23401   \hspace*{\linewidth}\hspace{1sp}%
23402 }%
23403 \unexpanded\expandafter{\@xcentercr}%
23404 }%
23405 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23406 \ifdim\@tempdima>\cap@width
23407   \aftergroup\scr@makemultilinecaption
23408 \else
23409   \aftergroup\scr@makesinglelinecaption
23410 \fi
23411 \else
23412   \aftergroup\scr@makemultilinecaption
23413 \fi
23414 \endgroup
23415 {#1}{#2}{#3}%
23416 }
23417 \renewcommand{\scr@makesinglelinecaption}[3]{%
23418   {%
23419     \usefontofkomafont{caption}{%
23420       \hb@xt@\hsize{%
23421         \cap@left
23422         \if@RTL
23423           \beginR
23424           \fi
23425         \scr@makesinglelinecaption{#1}{#2}{#3}%
23426         \if@RTL
23427           \endR
23428         \fi
23429         \cap@right
23430       }\par\kern\dp\strutbox%
23431     }}%
23432   }\kern-\dp\strutbox
23433 }
23434 \renewcommand{\@makecaption}[2]{%
23435   \if@captionabove
23436     \vskip\belowcaptionskip
23437   \else
23438     \vskip\abovecaptionskip
23439   \fi

```



```

23440 \@@makecaption\@firstofone{#1}{#2}%
23441 \if@captionabove
23442   \vskip\abovecaptionskip
23443 \else
23444   \vskip\belowcaptionskip
23445 \fi
23446 }
23447
23448 \renewcommand{\scr@makesinglelinecaption}[3]{%
23449   {\usekomafont{caption}{\strut\ignorespaces
23450     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23451     \ignorespaces #3\unskip}}%
23452 }
23453
23454 \renewcommand{\scr@makemultilinecaption}[3]{%
23455   {%
23456     \usefontofkomafont{caption}{%
23457       \hb@xt@\hsize{%
23458         \cap@left
23459         \vbox{\hsize\cap@width\linewidth\hsize
23460           \scr@ifundefinedorrelax{@capytype}{%
23461             \ClassWarning{\KOMAClassName}{%
23462               `string\caption' outside float.\MessageBreak
23463               Seems you are using `string\caption' outside a
23464               float.\MessageBreak
23465               Maybe you are using a package that uses
23466               `string\@makecaption'\MessageBreak
23467               without setting `string\@capytype' before.\MessageBreak
23468               Because I cannot detect the caption type, I'm using\MessageBreak
23469               the empty one.%
23470             }%
23471             \let\@capytype\@empty
23472           }{}%
23473           \scr@ifundefinedorrelax{ragged\@capytype caption}{\raggedcaption}{%
23474             \@nameuse{ragged\@capytype caption}%
23475           }%
23476           \ifdofullc@p
23477             \@hangfrom{%
23478               \strut
23479               \scr@smashdp{%
23480                 #1{%
23481                   \usekomafont{caption}{%
23482                     \usekomafont{captionlabel}{#2\captionformat}%
23483                   }%
23484                 }%
23485               }%
23486             }%
23487             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23488         \else
23489           \ifdim\cap@indent<\z@
23490             \strut
23491             #1{%
23492               \usekomafont{caption}{%
23493                 \usekomafont{captionlabel}{#2\captionformat}%

```





```

23494         }%
23495     }\par}%
23496     \noindent{\usekomafont{caption}{%
23497         \hspace*{-\cap@indent}#3\scr@endstrut
23498     }}\par}%
23499     \else
23500     \if@capbreak
23501     \strut
23502     #1{%
23503         {\usekomafont{caption}{%
23504             \usekomafont{captionlabel}{#2\captionformat}%
23505         }%
23506     }\par}%
23507     \noindent\@hangfrom{\hspace*{\cap@indent}}%
23508     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23509     \else
23510     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23511     {%
23512     \hspace{-\cap@indent}%
23513     \scr@smashdp{%
23514         #1{\usekomafont{caption}{%
23515             \usekomafont{captionlabel}{#2\captionformat}%
23516         }%
23517     }%
23518     }%
23519     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23520     }%
23521     \fi
23522     \fi
23523     \fi
23524     }%
23525     \cap@right
23526     }\par\kern\dp\strutbox
23527     }%
23528     }\kern-\dp\strutbox
23529 }
23530
23531
23532 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23533 \if@komalongtable
23534 \renewcommand{\LT@makecaption}[3]{%
23535 \noalign{%
23536 \if@captionabove
23537 \vskip\belowcaptionskip
23538 \else
23539 \vskip\abovecaptionskip
23540 \fi
23541 }%
23542 \LT@col\LT@cols c{%
23543 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
23544 \def\@capytype{table}%
23545 \@makecaption{#1}{#2}{#3}%
23546 \endgraf
23547 \if@captionabove

```



```

23548         \vskip\abovecaptionskip
23549         \else
23550         \vskip\belowcaptionskip
23551         \fi
23552     }%
23553     \hss
23554 }%
23555 }%
23556 }%
23557 \renewcommand*\scr@LT@array}{}%
23558 \let\scr@LT@array=\LT@array
23559 \renewcommand*\LT@array{%
23560     \let\scr@caption=\LT@caption
23561     \def\captionabove{\noalign{\global\@captionabovetrue}%
23562         \scr@caption}%
23563     \def\captionbelow{\noalign{\global\@captionabovefalse}%
23564         \scr@caption}%
23565     \if@tablecaptionabove
23566         \let\LT@caption=\captionabove
23567     \else
23568         \let\LT@caption=\captionbelow
23569     \fi
23570     \scr@LT@array
23571 }%
23572 \ClassInfo{\KOMAClassName}{%
23573     longtable captions redefined%
23574 }%
23575 \fi
23576 }
23577
23578 \CloneTOCEntryStyle{tocline}{part}
23579 \TOCEntryStyleStartInitCode{part}{%
23580     \expandafter\renewcommand%
23581     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23582     \expandafter\renewcommand%
23583     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23584     \expandafter\renewcommand%
23585     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23586         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23587     \expandafter\renewcommand\expandafter*%
23588     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23589 }
23590
23591 \CloneTOCEntryStyle{tocline}{chapter}
23592 \TOCEntryStyleStartInitCode{chapter}{%
23593     \expandafter\renewcommand%
23594     \csname scr@tso@#1@linefill\endcsname{%
23595         \if@chapterentrywithdots
23596             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23597         \else
23598             \hfill
23599         \fi
23600     }%
23601     \expandafter\renewcommand%

```



```

23602 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
23603 \expandafter\renewcommand%
23604 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23605   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23606 \expandafter\renewcommand\expandafter*%
23607 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23608 }
23609
23610 \CloneTOCEntryStyle{tocline}{section}
23611 \TOCEntryStyleStartInitCode{section}{%
23612   \expandafter\renewcommand%
23613   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23614   \expandafter\renewcommand%
23615   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23616     {\normalfont\normalcolor ##1}}%
23617 }
23618
23619 \CloneTOCEntryStyle{section}{default}
23620
23621 \DeclareSectionCommand[%
23622   style=chapter,%
23623   level=\z@,%
23624   pagestyle=plain,%
23625   tocstyle=chapter,%
23626   tocindent=\z@,%
23627   tocnumwidth=1.5em%
23628 ]{chapter}
23629 \DeclareSectionCommand[%
23630   style=section,%
23631   level=1,%
23632   indent=\z@,%
23633   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23634   afterskip=2.3ex \@plus .2ex,%
23635   tocstyle=section,%
23636   tocindentfollows=chapter,%
23637   tocindent=1.5em,%
23638   tocnumwidth=2.3em%
23639 ]{section}
23640 \DeclareSectionCommand[%
23641   style=part,%
23642   level=\m@ne,%
23643   pagestyle=plain,%
23644   tocstyle=part,%
23645   toclevel=\m@ne,%
23646   tocindent=\z@,%
23647   tocnumwidth=2em%
23648 ]{part}
23649 \DeclareSectionCommand[%
23650   style=section,%
23651   level=2,%
23652   indent=\z@,%
23653   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
23654   afterskip=1.5ex \@plus .2ex,%
23655   tocstyle=section,%

```



```

23656 tocindent=3.8em,%
23657 tocnumwidth=3.2em%
23658 ]{subsection}
23659 \DeclareSectionCommand[%
23660 style=section,%
23661 level=3,%
23662 indent=\z@,%
23663 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23664 afterskip=1.5ex \@plus .2ex,%
23665 tocstyle=section,%
23666 tocindent=7.0em,%
23667 tocnumwidth=4.1em%
23668 ]{subsubsection}
23669 \DeclareSectionCommand[%
23670 style=section,%
23671 level=4,%
23672 indent=\z@,%
23673 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23674 afterskip=-1em,%
23675 tocindentfollows=subsubsection,%
23676 tocstyle=section,%
23677 tocindent=10em,%
23678 tocnumwidth=5em%
23679 ]{paragraph}
23680 \DeclareSectionCommand[%
23681 style=section,%
23682 level=5,%
23683 indent=\scr@parindent,%
23684 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23685 afterskip=-1em,%
23686 tocstyle=section,%
23687 tocindent=12em,%
23688 tocnumwidth=6em%
23689 ]{subparagraph}

```

## 144 File `sidecap-xetex-bidi.def`

```

23690 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23691 \RequirePackage{ragged2e}
23692 \renewcommand*\SC@FLOAT}[2]{\if@RTL%
23693   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23694 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23695 \renewcommand*\SC@justify@caption{\if@RTL%
23696 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23697   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
23698
23699 \@ifpackagewith{sidecap}{innercaption}{%
23700 \if@RTL \renewcommand*\SC@FLOAT}[2]{%
23701   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
23702 \renewcommand*\SC@justify@caption{%
23703   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23704 \renewcommand*\SC@FLOAT}[2]{%
23705   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
23706 \renewcommand*\SC@justify@caption{%

```



```

23707 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23708 }{}
23709
23710 \@ifpackagewith{sidecap}{rightcaption}{%
23711 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23712 \def\SC@justify@caption{\RaggedLeft}\else%
23713 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23714 \def\SC@justify@caption{\RaggedRight}\fi%
23715 }{}
23716
23717 \@ifpackagewith{sidecap}{leftcaption}{%
23718 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23719 \def\SC@justify@caption{\RaggedRight}\else%
23720 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23721 \def\SC@justify@caption{\RaggedLeft}\fi%
23722 }{}

```

## 145 File soul-xetex-bidi.def

```

23723 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23724 \long\def\SOUL@start#1{%
23725 \let\bidi@RTL@everypar\@empty
23726 \let\<\SOUL@lowerthan
23727 \let\>\empty
23728 \def\soulomit{\noexpand\soulomit}%
23729 \gdef\SOUL@eventuallyexhyphen##1{%
23730 \let\SOUL@soeventuallyskip\relax
23731 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
23732 \@minus\fontdimen4\font
23733 \SOUL@ignorespacesfalse
23734 \leavevmode
23735 \SOUL@preamble
23736 \SOUL@lasttoken={}%
23737 \SOUL@word={}%
23738 \SOUL@minus\z@
23739 \SOUL@comma\z@
23740 \SOUL@apo\z@
23741 \SOUL@grave\z@
23742 \SOUL@do{#1}%
23743 \SOUL@postamble
23744 }}
23745 \def\SOUL@underline#1{%
23746 \setbox\z@\hbox{#1}%
23747 \dimen@=\wd\z@
23748 \dimen@i=\SOUL@uloverlap
23749 \advance\dimen@2\dimen@i
23750 \if@RTL
23751 \unhcopy\z@
23752 \llap{%
23753 \null
23754 \kern-\dimen@i
23755 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23756 }%
23757 \else

```



```

23758 \rlap{%
23759 \null
23760 \kern-\dimen@i
23761 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23762 }%
23763 \unhcopy\z@
23764 \fi
23765 }}
23766 \def\bidi@SOUL@ulleaders{%
23767 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
23768 }
23769 \def\SOUL@uleveryspace#1{%
23770 \if@RTL
23771 #1%
23772 \bidi@SOUL@ulleaders
23773 \hskip\spaceskip
23774 \else
23775 \SOUL@ulcolor{%
23776 #1%
23777 \SOUL@ulleaders
23778 \hskip\spaceskip
23779 }%
23780 \fi
23781 \null
23782 }

```

## 146 File stabular-xetex-bidi.def

```

23783 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23784 \def\@stabular{%
23785 \leavevmode \bgroup \if@RTLtab\beginR \fi
23786 \let\@acol\@tabacol
23787 \let\@classz\@tabclassz
23788 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23789 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23790 \egroup \if@RTLtab\endR\fi\egroup}
23791 \expandafter \let \csname endstabular*\endcsname = \endstabular
23792 \def\@sarray[#1]#2{%
23793 \bgroup
23794 \setbox\@arstrutbox\hbox{%
23795 \vrule \@height\arraystretch\ht\strutbox
23796 \@depth\arraystretch \dp\strutbox
23797 \@width\z}%
23798 \@mkpream{#2}%
23799 \edef\@preamble{%
23800 \ialign \noexpand\@halignto
23801 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23802 \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
23803 \let\@tabularnewline\%
23804 \let\@sharp##%
23805 \set@typeset@protect
23806 \lineskip\z@skip\baselineskip\z@skip
23807 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
23808 \@preamble}

```



## 147 File subfigure-xetex-bidi.def

```
23809 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23810 \AtBeginDocument{%
23811 \let\p@subfigure=\thefigure
23812 \let\p@subtable=\thetable%
23813 }
```

## 148 File tabs-xetex-bidi.def

```
23814 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23815 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23816
23817 \expandafter\let\csname endtabular*\endcsname=\endtabular
23818
23819 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23820 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23821 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23822
23823 \def\@array[#1]#2{% remember global variables to allow recursion:
23824 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23825 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23826 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23827 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23828 \else \let\@tarlinesep\tablinesep \fi
23829 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23830 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23831 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23832 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23833 \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
23834 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23835 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23836 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23837 \let\protect\noexpand
23838 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23839 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23840 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23841 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23842 \bgroup \let\par\@empty
23843 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23844 \advance\extrarulesep.5\arrayrulewidth
23845 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23846 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23847 \@preamble}
```

## 149 File tabularx-xetex-bidi.def

```
23848 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
23849 \def\TX@endtabularx{%
23850 \expandafter\expandafter\expandafter
23851 \TX@find@endtabularxa\csname end\TX@\endcsname
23852 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23853 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
23854 \let\verb\TX@verb
```



```

23855 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23856 \edef\TX@ckpt{\cl@ckpt}%
23857 \let\@elt\relax
23858 \TX@old@table\maxdimen
23859 \TX@col@width\TX@target
23860 \global\TX@cols\@ne
23861 \TX@typeout@
23862   {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23863 \TX@trial{\def\NC@rewrite@X{%
23864   \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23865 \loop
23866   \TX@arith
23867   \ifTX@
23868   \TX@trial{%
23869 \repeat
23870 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23871 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23872 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23873 \csname tabular*\expandafter\endcsname\expandafter\TX@target
23874 \the\toks@
23875 \csname endtabular*\endcsname}%
23876 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23877 \ifnum0={\fi}%
23878 \expandafter\expandafter\expandafter
23879 \TX@find@endtabularxbb
23880 \expandafter\end\expandafter{\TX@}%
23881 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23882 }
23883
23884 \def\TX@trial#1{%
23885 \setbox\@tempboxa\hbox{%
23886   #1\relax
23887 \let\@footnotetext\TX@trial@ftn
23888 \let\@LTRfootnotetext\TX@trial@ftn
23889 \let\@RTLfootnotetext\TX@trial@ftn
23890 \let\TX@vwarn\@empty
23891 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23892 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23893 \def\write{\begingroup
23894   \def\let{\afterassignment\endgroup\toks@}%
23895   \afterassignment\let\count@}%
23896 \hbadness\@M
23897 \hfuzz\maxdimen
23898 \let\hbadness\@tempcnta
23899 \let\hfuzz\@tempdima
23900 \expandafter\tabular\the\toks@
23901 \endtabular}%
23902 \TX@ckpt
23903 \TX@typeout@{\@spaces
23904 \expandafter\TX@align
23905 \the\wd\@tempboxa\space\space\space\space\space\@@
23906 \expandafter\TX@align
23907 \the\TX@col@width\space\space\space\space\space\@@
23908 \@spaces\the\TX@cols}}

```





```

23909
23910 \long\def\TX@LTRftntext#1{%
23911   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23912     [\the\csname c@\@mpfn\endcsname]}%
23913   \global\TX@ftn\expandafter{\@tempa{#1}}}%
23914 \long\def\TX@xLTRftntext[#1]#2{%
23915   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}
23916
23917 \long\def\TX@RTLftntext#1{%
23918   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23919     [\the\csname c@\@mpfn\endcsname]}%
23920   \global\TX@ftn\expandafter{\@tempa{#1}}}%
23921 \long\def\TX@xRTLftntext[#1]#2{%
23922   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}

```

## 150 File tabulary-xetex-bidi.def

```

23923 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23924 \def\@testpach{\@chclass
23925   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23926   \ifnum \@lastchclass=7 5 \else
23927   \ifnum \@lastchclass=8 \tw@ \else
23928   \ifnum \@lastchclass=9 \thr@@
23929   \else \z@
23930   \ifnum \@lastchclass = 10 \else
23931   \edef\@nextchar{\expandafter\string\@nextchar}%
23932   \@chnum
23933   \if \@nextchar c\z@ \else
23934   \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23935   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
23936   \if \@nextchar C7 \else
23937   \if \@nextchar L8 \else
23938   \if \@nextchar R9 \else
23939   \if \@nextchar J10 \else
23940   \z@ \@chclass
23941   \if\@nextchar |\@ne \else
23942   \if \@nextchar !6 \else
23943   \if \@nextchar @7 \else
23944   \if \@nextchar <8 \else
23945   \if \@nextchar >9 \else
23946   10
23947   \@chnum
23948   \if \@nextchar m\thr@@\else
23949   \if \@nextchar p4 \else
23950   \if \@nextchar b5 \else
23951   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
23952   \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

## 151 File tc-xetex-xetex-bidi.def

```

23953 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver]
23954 \def\@cliptoboxdim#1{%
23955   \setbox#1=\hbox{%
23956     \Gin@defaultbp\WIDTH{\wd#1}%

```



```

23957 \Gin@defaultbp\DEPTH{\dp#1}%
23958 \@tempdima\ht#1%
23959 \advance\@tempdima\dp#1%
23960 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23961 \beginL\special{pdf:bcontent }%
23962 \special{%
23963     pdf:literal direct
23964     0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23965 }%
23966 \special{pdf:literal direct W }%
23967 \special{pdf:literal direct n }%
23968 \ifRTL\beginR\fi\box#1\ifRTL\endR\fi%
23969 \special{pdf:econtent }\endL%
23970 }%
23971 }

```

## 152 File tcolorbox-xetex-bidi.def

```

23972 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
23973 \let\endtcblrbox=\endminipage
23974 \let\endtcbsavebox=\endtcblrbox
23975
23976 \bidi@patchcmd{\tcb@vbox}{%
23977 \let\@footnotetext\@mpfootnotetext%
23978 }{%
23979 \let\@footnotetext\@mpfootnotetext%
23980 \let\@LTRfootnotetext\@mpLTRfootnotetext%
23981 \let\@RTLfootnotetext\@mpRTLfootnotetext%
23982 }{}{}
23983
23984 \bidi@patchcmd{\endtcbsavebox}{%
23985 \footnoterule%
23986 }{%
23987 \bidi@mpfootnoterule%
23988 }{}{}
23989 \bidi@apptocmd\tcb@icolorbox{%
23990 \@bidi@list@minipage@parboxfalse
23991 }{}{}

```

## 153 File titlesec-xetex-bidi.def

```

23992 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
23993 \renewcommand\filright{%
23994 \gdef\ttl@filleft##1{\hskip##1}%
23995 \gdef\ttl@filright##1{\hfill}%
23996 \let\\@centercr
23997 \advance\rightskip\z@ \@plus 1fil
23998 \parfillskip\z@}
23999 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
24000 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
24001 \setlength\leftskip{#6}%
24002 \setlength\rightskip{#7}%
24003 \interlinepenalty\@M
24004 \ttl@changecentercr

```



```

24005 \ttl@beginlongest
24006 #1{\ifhmode\ttl@hmode@error\fi
24007 \ttl@glcmds
24008 \parindent\z@
24009 \leavevmode
24010 \begingroup
24011 \ifttl@label
24012 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24013 \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24014 \llap{\box\z@}%
24015 \fi
24016 #4{#8}%
24017 \kern\z@\strut\@par
24018 \endgroup
24019 \nobreak\ttl@midlongest#5\@par}%
24020 \ttl@endlongest}

```

## 154 File titletoc-xetex-bidi.def

```

24021 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24022 \renewcommand\filright{%
24023 \gdef\ttl@filleft##1{\hskip##1}%
24024 \gdef\ttl@filright##1{\hfill}%
24025 \let\@centercr
24026 \advance\rightskip\z@ \@plus 1fil
24027 \parfillskip\z@}
24028 \renewcommand\contentspush[1]{%
24029 \sbox\z@{#1}%
24030 \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
24031 \aftergroup\ttl@b
24032 \leavevmode\llap{\box\z@}}
24033 \def\ttl@outnoblock#1#2#3{%
24034 \begingroup
24035 \ifnum\ttl@b>\ttl@a
24036 \nobreak
24037 \else\ifnum\ttl@b<\ttl@a
24038 \addpenalty{\@secpenalty}%
24039 \else
24040 \addpenalty{\z@}%
24041 \fi\fi
24042 \ttl@contentsstretch
24043 \nobreak
24044 \ifcase#1\relax\else\interlinepenalty\@M\fi
24045 \parindent\z@
24046 \ifx\@nil#2%
24047 \PackageError{titletoc}{Unimplemented}%
24048 {The optional argument is currently mandatory}%
24049 \else
24050 \ifRTL\setlength\rightskip{#2}\else
24051 \setlength\leftskip{#2}\fi%
24052 \fi
24053 \ifRTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24054 \let\contentsmargin\ttl@margin
24055 \def\ttl@makeline##1{##1}%

```



```

24056 #3%
24057 \addtolength{\parfillskip}{-\ttl@corr}%
24058 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24059 \let\ttl@leaders\leaders}
24060 \renewcommand\ttl@margin[2][\z@]{%
24061 \def\ttl@corr{#1}%
24062 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24063 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24064 \def\@pnumwidth{#2}}
24065 \let\ttl@savel@part\l@part
24066 \def\l@part{\ttl@lselect{part}}
24067
24068 \let\ttl@savel@chapter\l@chapter
24069 \def\l@chapter{\ttl@lselect{chapter}}

```

## 155 File tocbibind-xetex-bidi.def

```

24070 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24071 \IfClassLoadedT{memoir}{\endinput}
24072 \if@dotocbib
24073 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24074 \renewcommand{\bibsection}{\t@cb@bchapsec}
24075 \renewenvironment{thebibliography}[1]{%
24076 \bibsection
24077 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
24078 \renewenvironment{thebibitemlist}[1]{
24079 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
24080 \bidi@thebibliography@font@hook%
24081 \list{\@biblabel{\@arabic\c@enumiv}}%
24082 {\settoheight\labelwidth{\@biblabel{#1}}%
24083 \leftmargin\labelwidth
24084 \advance\leftmargin\labelsep
24085 \@openbib@code
24086 \usecounter{enumiv}%
24087 \let\p@enumiv\@empty
24088 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
24089 \sloppy
24090 \clubpenalty4000
24091 \@clubpenalty \clubpenalty
24092 \widowpenalty4000%
24093 \sfcode\.\@m}
24094 {\def\@noitemerr
24095 {\@latex@warning{Empty `thebibliography' environment}}%
24096 \endlist}
24097
24098 \ApplyPatchCodeToPackage{chapterbib}{%
24099 \@ifpackagewith{chapterbib}{sectionbib}%
24100 {\renewcommand{\sectionbib}[2]{}%
24101 }%
24102 }
24103
24104 \fi
24105 \if@inltxdoc\else
24106 \renewenvironment{theindex}%

```



```

24107   {\if@twocolumn
24108     \@restonecolfalse
24109     \else
24110       \@restonecoltrue
24111     \fi
24112   \if@bibchapter
24113     \if@donumindex
24114       \refstepcounter{chapter}
24115       \twocolumn[\vspace*{2\topskip}%
24116         \@makechapterhead{\indexname}]%
24117       \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24118       \chaptermark{\indexname}
24119     \else
24120       \if@dotocind
24121         \twocolumn[\vspace*{2\topskip}%
24122           \@makeschapterhead{\indexname}]%
24123         \prw@mkboth{\indexname}
24124         \addcontentsline{toc}{chapter}{\indexname}
24125       \else
24126         \twocolumn[\vspace*{2\topskip}%
24127           \@makeschapterhead{\indexname}]%
24128         \prw@mkboth{\indexname}
24129       \fi
24130     \fi
24131   \else
24132     \if@donumindex
24133       \twocolumn[\vspace*{-1.5\topskip}%
24134         \@nameuse{\@tocextra}{\indexname}]%
24135       \csname \@tocextra mark\endcsname{\indexname}
24136     \else
24137       \if@dotocind
24138         \twocolumn[\vspace*{-1.5\topskip}%
24139           \toc@headstar{\@tocextra}{\indexname}]%
24140         \prw@mkboth{\indexname}
24141         \addcontentsline{toc}{\@tocextra}{\indexname}
24142       \else
24143         \twocolumn[\vspace*{-1.5\topskip}%
24144           \toc@headstar{\@tocextra}{\indexname}]%
24145         \prw@mkboth{\indexname}
24146       \fi
24147     \fi
24148   \fi
24149   \thispagestyle{plain}\parindent\z@
24150   \parskip\z@ \@plus .3\p@\relax
24151   \let\item\@idxitem}
24152   {\if@restonecol\onecolumn\else\clearpage\fi}
24153 \fi

```

## 156 File `tocloft-xetex-bidi.def`

```

24154 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24155 \IfClassLoadedT{memoir}{\endinput}
24156 \renewcommand{\cftpnualign}{\if@RTL l\else r\fi}
24157 \let\cftdot\@SepMark

```



```

24158 \if@cfthaspart
24159 \renewcommand*{\l@part}[2]{
24160   \@cftdopartfalse
24161   \ifnum \c@tocdepth >-2\relax
24162     \if@cfthaschapter
24163       \@cftdoparttrue
24164     \fi
24165     \ifnum \c@tocdepth >\m@ne
24166       \if@cfthaschapter\else
24167         \@cftdoparttrue
24168       \fi
24169     \fi
24170   \fi
24171   \if@cftdopart
24172     \if@cfthaschapter
24173       \addpenalty{-\@highpenalty}
24174     \else
24175       \addpenalty\@secpenalty
24176     \fi
24177     \addvspace{\cftbeforepartskip}
24178     \begingroup
24179     {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24180     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24181     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24182     \parindent \cftpartindent\relax\@afterindenttrue
24183     \interlinepenalty\@M
24184     \leavevmode
24185     \@tempdima \cftpartnumwidth\relax
24186     \let\@cftbsnum \cftpartpresnum
24187     \let\@cftasnum \cftpartaftersnum
24188     \let\@cftasnumb \cftpartaftersnumb
24189     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24190     {\cftpartfont \cftpartpresnum #1}
24191     \cftpartfillnum{#2}}
24192     \nobreak
24193     \if@cfthaschapter
24194       \global\@nobreaktrue
24195       \everypar{\global\@nobreakfalse\everypar{}}
24196     \else
24197       \if@compatibility
24198         \global\@nobreaktrue
24199         \everypar{\global\@nobreakfalse\everypar{}}
24200       \fi
24201     \fi
24202   \endgroup
24203 \fi}
24204 \fi
24205 \if@cfthaschapter
24206 \renewcommand*{\l@chapter}[2]{
24207   \ifnum \c@tocdepth >\m@ne
24208     \addpenalty{-\@highpenalty}
24209     \vskip \cftbeforechapskip
24210     {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24211     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg

```



```

24212 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24213 \parindent \cftchapindent\relax\@afterindenttrue
24214 \interlinepenalty\@M
24215 \leavevmode
24216 \@tempdima \cftchapnumwidth\relax
24217 \let\@cftbsnum \cftchappresnum
24218 \let\@cftasnum \cftchapaftersnum
24219 \let\@cftasnumb \cftchapaftersnumb
24220 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24221 {\cftchapfont #1}\nobreak
24222 \cftchapfillnum{#2}}
24223 \fi}
24224 \fi
24225 \renewcommand*{\l@section}[2]{%
24226 \ifnum \c@tocdepth >\z@
24227 \if@cfthaschapter
24228 \vskip \cftbeforesecskip
24229 \else
24230 \addpenalty\@secpenalty
24231 \addvspace{\cftbeforesecskip}
24232 \fi
24233 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
24234 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24235 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24236 \parindent \cftsecindent\relax\@afterindenttrue
24237 \interlinepenalty\@M
24238 \leavevmode
24239 \@tempdima \cftsecnumwidth\relax
24240 \let\@cftbsnum \cftsecpresnum
24241 \let\@cftasnum \cftsecaftersnum
24242 \let\@cftasnumb \cftsecaftersnumb
24243 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24244 {\cftsecfont #1}\nobreak
24245 \cftsecfillnum{#2}}
24246 \fi}
24247 \renewcommand*{\l@subsection}[2]{%
24248 \ifnum \c@tocdepth >\@ne
24249 \vskip \cftbeforesubsecskip
24250 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
24251 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24252 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24253 \parindent \cftsubsecindent\relax\@afterindenttrue
24254 \interlinepenalty\@M
24255 \leavevmode
24256 \@tempdima \cftsubsecnumwidth\relax
24257 \let\@cftbsnum \cftsubsecpresnum
24258 \let\@cftasnum \cftsubsecaftersnum
24259 \let\@cftasnumb \cftsubsecaftersnumb
24260 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24261 {\cftsubsecfont #1}\nobreak
24262 \cftsubsecfillnum{#2}}
24263 \fi}
24264 \renewcommand*{\l@subsubsection}[2]{%
24265 \ifnum \c@tocdepth >\tw@

```



```

24266 \vskip \cftbeforesubsubsecskip
24267 {\if@RTL\rightrightskip\else\leftskip\fi \cftsubsubsecindent\relax
24268 \if@RTL\leftskip\else\rightrightskip\fi \tocrmarg
24269 \parfillskip -\if@RTL\leftskip\else\rightrightskip\fi
24270 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24271 \interlinepenalty\@M
24272 \leavevmode
24273 \@tempdima \cftsubsubsecnumwidth\relax
24274 \let\@cftbsnum \cftsubsubsecpresnum
24275 \let\@cftasnum \cftsubsubsecftersnum
24276 \let\@cftasnumb \cftsubsubsecftersnumb
24277 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
24278 {\cftsubsubsecfont #1}\nobreak
24279 \cftsubsubsecfillnum{#2}}
24280 \fi}
24281 \renewcommand*\l@paragraph}[2]{%
24282 \ifnum \c@tocdepth >3\relax
24283 \vskip \cftbeforeparaskip
24284 {\if@RTL\rightrightskip\else\leftskip\fi \cftparaindent\relax
24285 \if@RTL\leftskip\else\rightrightskip\fi \tocrmarg
24286 \parfillskip -\if@RTL\leftskip\else\rightrightskip\fi
24287 \parindent \cftparaindent\relax\@afterindenttrue
24288 \interlinepenalty\@M
24289 \leavevmode
24290 \@tempdima \cftparanumwidth\relax
24291 \let\@cftbsnum \cftparapresnum
24292 \let\@cftasnum \cftparaftersnum
24293 \let\@cftasnumb \cftparaftersnumb
24294 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
24295 {\cftparafont #1}\nobreak
24296 \cftparafillnum{#2}}
24297 \fi}
24298 \renewcommand*\l@subparagraph}[2]{%
24299 \ifnum \c@tocdepth >4\relax
24300 \vskip \cftbeforesubparaskip
24301 {\if@RTL\rightrightskip\else\leftskip\fi \cftsubparaindent\relax
24302 \if@RTL\leftskip\else\rightrightskip\fi \tocrmarg
24303 \parfillskip -\if@RTL\leftskip\else\rightrightskip\fi
24304 \parindent \cftsubparaindent\relax\@afterindenttrue
24305 \interlinepenalty\@M
24306 \leavevmode
24307 \@tempdima \cftsubparanumwidth\relax
24308 \let\@cftbsnum \cftsubparapresnum
24309 \let\@cftasnum \cftsubparaftersnum
24310 \let\@cftasnumb \cftsubparaftersnumb
24311 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
24312 {\cftsubparafont #1}\nobreak
24313 \cftsubparafillnum{#2}}
24314 \fi}
24315 \renewcommand*\l@figure}[2]{%
24316 \ifnum \c@lofdepth >\z@
24317 \vskip \cftbeforefigskip
24318 {\if@RTL\rightrightskip\else\leftskip\fi \cftfigindent\relax
24319 \if@RTL\leftskip\else\rightrightskip\fi \tocrmarg

```





```

24320 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24321 \parindent \cftfigindent\relax\@afterindenttrue
24322 \interlinepenalty\@M
24323 \leavevmode
24324 \@tempdima \cftfignumwidth\relax
24325 \let\@cftbsnum \cftfigpresnum
24326 \let\@cftasnum \cftfigaftersnum
24327 \let\@cftasnumb \cftfigaftersnumb
24328 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24329 {\cftfigfont #1}\nobreak
24330 \cftfigfillnum{#2}}
24331 \fi
24332 }
24333 \renewcommand*\@l@table}[2]{%
24334 \ifnum\c@lotdepth >\z@
24335 \vskip \cftbeforetabskip
24336 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24337 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24338 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24339 \parindent \cfttabindent\relax\@afterindenttrue
24340 \interlinepenalty\@M
24341 \leavevmode
24342 \@tempdima \cfttabnumwidth\relax
24343 \let\@cftbsnum \cfttabpresnum
24344 \let\@cftasnum \cfttabaftersnum
24345 \let\@cftasnumb \cfttabaftersnumb
24346 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24347 {\cfttabfont #1}\nobreak
24348 \cfttabfillnum{#2}}
24349 \fi
24350 }
24351 \renewcommand{\@cftl@subfig}{
24352 \renewcommand*\@l@subfigure}[2]{%
24353 \ifnum \c@lofdepth > \toclevel@subfigure
24354 \vskip \cftbeforesubfigskip
24355 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24356 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24357 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24358 \parindent \cftsubfigindent\relax\@afterindenttrue
24359 \interlinepenalty\@M
24360 \leavevmode
24361 \@tempdima \cftsubfignumwidth\relax
24362 \let\@cftbsnum \cftsubfigpresnum
24363 \let\@cftasnum \cftsubfigaftersnum
24364 \let\@cftasnumb \cftsubfigaftersnumb
24365 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24366 {\cftsubfigfont ##1}\nobreak
24367 \cftsubfigfillnum{##2}}
24368 \fi
24369 }
24370 }
24371 \renewcommand{\@cftl@subtab}{
24372 \renewcommand*\@l@subtable}[2]{%
24373 \ifnum \c@lotdepth > \toclevel@subtable

```



```

24374 \vskip \cftbeforesubtabskip
24375 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24376 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24377 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24378 \parindent \cftsubtabindent\relax\@afterindenttrue
24379 \interlinepenalty\@M
24380 \leavevmode
24381 \@tempdima \cftsubtabnumwidth\relax
24382 \let\@cftbsnum \cftsubtabpresnum
24383 \let\@cftasnum \cftsubtabaftersnum
24384 \let\@cftasnumb \cftsubtabaftersnumb
24385 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24386 {\cftsubtabfont ##1}\nobreak
24387 \cftsubtabfillnum{##2}}
24388 \fi
24389 }
24390 }
24391 \renewcommand{\newlistentry}[4][\@empty]{%
24392 \ifundefined{c@#2}{% check & set the counter
24393 \ifx \@empty#1\relax
24394 \newcounter{#2}
24395 \else
24396 \ifundefined{c@#1}{\PackageWarning{tocloft}%
24397 {#1 has no counter for use as a `within'}
24398 \newcounter{#2}}%
24399 {\newcounter{#2}[#1]}%
24400 \expandafter\edef\csname the#2\endcsname{%
24401 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}%
24402 \fi
24403 \setcounter{#2}{0}
24404 }
24405 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24406
24407 \@namedef{l@#2}##1##2{%
24408 \ifnum \@nameuse{c@#3depth} > #4\relax
24409 \vskip \@nameuse{cftbefore#2skip}
24410 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24411 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24412 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24413 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24414 \interlinepenalty\@M
24415 \leavevmode
24416 \@tempdima \@nameuse{cft#2numwidth}\relax
24417 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24418 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24419 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24420 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24421 {\@nameuse{cft#2font}##1}\nobreak
24422 \@nameuse{cft#2fillnum}{##2}}
24423 \fi
24424 } % end of l@#2
24425
24426 \expandafter\newlength\csname cftbefore#2skip\endcsname
24427 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}

```



```

24428 \expandafter\newlength\csname cft#2indent\endcsname
24429 \expandafter\newlength\csname cft#2numwidth\endcsname
24430 \ifcase #4\relax % 0
24431   \setlength{\@nameuse{cft#2indent}}{0em}
24432   \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24433 \or % 1
24434   \setlength{\@nameuse{cft#2indent}}{1.5em}
24435   \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24436 \or % 2
24437   \setlength{\@nameuse{cft#2indent}}{3.8em}
24438   \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24439 \or % 3
24440   \setlength{\@nameuse{cft#2indent}}{7.0em}
24441   \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24442 \else % anything else
24443   \setlength{\@nameuse{cft#2indent}}{10.0em}
24444   \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24445 \fi
24446 \@namedef{cft#2font}{\normalfont}
24447 \@namedef{cft#2presnum}{}
24448 \@namedef{cft#2aftersnum}{}
24449 \@namedef{cft#2aftersnumb}{}
24450 \@namedef{cft#2dotsep}{\cftdotsep}
24451 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24452 \@namedef{cft#2pagefont}{\normalfont}
24453 \@namedef{cft#2afterpnum}{}
24454 \@namedef{toclevel@#2}{#4}
24455 \@namedef{cft#2fillnum}##1{%
24456   {\@nameuse{cft#2leader}}\nobreak
24457   \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24458 } % end \newlistentry
24459 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24460   {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24461     \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24462     \if@RTL\leftskip\else\rightskip\fi \@tocmarg\relax
24463     \textit{#1}\protect\par}}}

```

## 157 File tocbasic-xetex-bidi.def

```

24464 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24465 \bidi@undef\scr@dte@def@l@undottedtocline
24466 \bidi@undef\scr@dte@undottedtocline@init
24467 \DeclareTOCEntryStyle{undottedtocline}{%
24468   \DefineTOCEntryLengthOption[indent]{%
24469     {scr@tso@}{@indent}{entry indent}}%
24470   \DefineTOCEntryLengthOption[numwidth]{%
24471     {scr@tso@}{@numwidth}{entry number width}}%
24472   \@ifundefined{#1tocdepth}{%
24473     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24474       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24475         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24476           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24477             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24478               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%

```



```

24479         \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24480         \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24481         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24482         \expandafter\let\csname #1tocdepth\expandafter\endcsname
24483         \csname #1numdepth\endcsname
24484         }%
24485         }%
24486         }%
24487         }%
24488         }%
24489         }%
24490         }%
24491         }%
24492         }%
24493     }-%
24494 \@ifundefined{scr@tso@#1@indent}{%
24495     \@ifundefined{scr@#1@tocindent}{%
24496     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24497     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24498     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24499     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24500     \scr@ifundefinedorrelax{l@chapter}{%
24501     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24502     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24503     \Ifstr{#1}{subsubsection}{%
24504     \@namedef{scr@tso@#1@indent}{3.8em}%
24505     }-%
24506     \Ifstr{#1}{paragraph}{%
24507     \@namedef{scr@tso@#1@indent}{7em}%
24508     }-%
24509     \Ifstr{#1}{subparagraph}{%
24510     \@namedef{scr@tso@#1@indent}{10em}%
24511     }-%
24512     }%
24513     }%
24514     }%
24515     }%
24516     }%
24517     }-%
24518     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24519     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24520     \Ifstr{#1}{subsubsection}{%
24521     \@namedef{scr@tso@#1@indent}{7.0em}%
24522     }-%
24523     \Ifstr{#1}{paragraph}{%
24524     \@namedef{scr@tso@#1@indent}{10em}%
24525     }-%
24526     \Ifstr{#1}{subparagraph}{%
24527     \@namedef{scr@tso@#1@indent}{12em}%
24528     }-%
24529     }%
24530     }%
24531     }%
24532     }%

```



```

24533         }%
24534     }%
24535 }%
24536     }%
24537 }%
24538     }%
24539 }{%
24540     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24541 }%
24542 }{%
24543 \@ifundefined{scr@tso@#1@numwidth}{%
24544     \@ifundefined{scr@#1@tocnumwidth}{%
24545         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24546             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24547                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24548                     \scr@ifundefinedorrelax{chapter}{%
24549                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24550                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24551                                 \Ifstr{#1}{subsubsection}{%
24552                                     \@namedef{scr@tso@#1@numwidth}{3.2em}}%
24553                                 }{%
24554                                     \Ifstr{#1}{paragraph}{%
24555                                         \@namedef{scr@tso@#1@numwidth}{4.1em}}%
24556                                     }{%
24557                                         \Ifstr{#1}{subparagraph}{%
24558                                             \@namedef{scr@tso@#1@numwidth}{5m}}%
24559                                         }{%
24560                                             }%
24561                                         }%
24562                                     }%
24563                                 }%
24564                             }%
24565                         }{%
24566                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24567                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24568                                     \Ifstr{#1}{subsubsection}{%
24569                                         \@namedef{scr@tso@#1@numwidth}{3.1em}}%
24570                                     }{%
24571                                         \Ifstr{#1}{paragraph}{%
24572                                             \@namedef{scr@tso@#1@numwidth}{5em}}%
24573                                         }{%
24574                                             \Ifstr{#1}{subparagraph}{%
24575                                                 \@namedef{scr@tso@#1@numwidth}{6em}}%
24576                                             }{%
24577                                                 }%
24578                                             }%
24579                                         }%
24580                                     }%
24581                                 }%
24582                             }%
24583                         }%
24584                     }%
24585                 }%
24586             }{%

```



```

24587     \namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24588     }%
24589   }-{}%
24590 }]{%
24591 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24592   \ifnum \@nameuse{#1tocdepth}<\@ne
24593     \scr@ifundefinedorrelax{chapter}{-%
24594       \addpenalty\@secpenalty
24595       \addvspace{1.0em \@plus\p@}%
24596     }-%
24597     \addpenalty{-\@highpenalty}%
24598     \vskip 1.0em \@plus\p@
24599   }%
24600   \else
24601     \addpenalty\@secpenalty
24602     \addvspace{1.0em \@plus\p@}%
24603   \fi
24604   \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24605   \begingroup
24606     \parindent \z@ \bidi@rightskip \@pnumwidth
24607     \parfillskip -\@pnumwidth
24608     \leavevmode
24609     \bfseries
24610     \advance\bidi@leftskip\@tempdima
24611     \If TocFeature{\@currentx}{noindent}{-%
24612       \hskip -\bidi@leftskip
24613     }-%
24614     \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24615     \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24616   }%
24617   ##1%
24618   \nobreak
24619   \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24620   \par
24621   \penalty\@highpenalty
24622 \endgroup
24623 \fi
24624 }
24625
24626 \bidi@undef\scr@dte@def@l@targetocline
24627 \bidi@undef\scr@dte@largetocline@init
24628 \DeclareTOCEntryStyle{largetocline}[{%
24629   \DefineTOCEntryLengthOption{indent}%
24630   {scr@tso@}{\@indent}{entry indent}%
24631   \@ifundefined{#1tocdepth}{-%
24632     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}-%
24633     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}-%
24634     \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}-%
24635     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}-%
24636     \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}-%
24637     \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}-%
24638     \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}-%
24639     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}-%
24640     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}-%

```



```

24641         \expandafter\let\csname #1tocdepth\expandafter\endcsname
24642         \csname #1numdepth\endcsname
24643     }%
24644 }%
24645 }%
24646 }%
24647 }%
24648 }%
24649 }%
24650 }%
24651 }%
24652 }{}%
24653 \@ifundefined{scr@tso@#1@indent}{%
24654     \@ifundefined{scr@#1@tocindent}{%
24655         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24656             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24657                 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24658                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24659                         \scr@ifundefinedorrelax{1@chapter}{%
24660                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24661                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24662                                     \Ifstr{#1}{subsubsection}{%
24663                                         \@namedef{scr@tso@#1@indent}{3.8em}%
24664                                     }{%
24665                                         \Ifstr{#1}{paragraph}{%
24666                                             \@namedef{scr@tso@#1@indent}{7em}%
24667                                         }{%
24668                                             \Ifstr{#1}{subparagraph}{%
24669                                                 \@namedef{scr@tso@#1@indent}{10em}%
24670                                             }{%
24671                                                 }%
24672                                             }%
24673                                         }%
24674                                     }%
24675                                 }%
24676                             }{}%
24677                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24678                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24679                                     \Ifstr{#1}{subsubsection}{%
24680                                         \@namedef{scr@tso@#1@indent}{7.0em}%
24681                                     }{%
24682                                         \Ifstr{#1}{paragraph}{%
24683                                             \@namedef{scr@tso@#1@indent}{10em}%
24684                                         }{%
24685                                             \Ifstr{#1}{subparagraph}{%
24686                                                 \@namedef{scr@tso@#1@indent}{12em}%
24687                                             }{%
24688                                                 }%
24689                                             }%
24690                                         }%
24691                                     }%
24692                                 }%
24693                             }%
24694                         }%

```



```

24695         }%
24696     }%
24697 }%
24698 }{%
24699     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24700 }%
24701 }{%
24702 }]}%
24703 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24704     \ifnum \@nameuse{#1tocdepth}<\@ne
24705         \scr@ifundefinedorrelax{chapter}{%
24706             \addpenalty\@secpenalty
24707             \addvspace{2.25em \@plus\p@}%
24708         }{%
24709             \addpenalty{-\@highpenalty}%
24710             \addvspace{2.25em \@plus\p@}%
24711         }%
24712     \else
24713         \addpenalty\@secpenalty
24714         \addvspace{2.25em \@plus\p@}%
24715     \fi
24716     \setlength\@tempdima{3em}%
24717     \begingroup
24718         \parindent \z@ \bidi@rightskip \@pnumwidth
24719         \parfillskip -\@pnumwidth
24720         \leavevmode
24721         \large
24722         \bfseries
24723         \Iftocfeature{\@current}{noindent}{%
24724             }{%
24725                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24726             }%
24727             ##1%
24728             \hfil \nobreak\hb@ext@\@pnumwidth{\hss ##2}%
24729         \par
24730         \nobreak
24731         \ifnum 0=
24732             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24733             \global\@nobreaktrue
24734             \everypar{\global\@nobreakfalse\everypar{}}%
24735         \fi
24736     \endgroup
24737 \fi
24738 }
24739
24740 \renewcommand*{\scr@dte@tocline}[3]{%
24741     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24742     \else
24743         \tobasic@DependOnPenaltyAndTOCLevel{#1}%
24744         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24745         \@nameuse{Ifscr@tso@#1@dynindent}{%
24746             \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
24747             \PackageWarning{tobasic}{`dynindent' for `#1' not available}%
24748         \else

```





```

24749 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24750 \@for \reserved@a:=\reserved@a\do {%
24751 \scr@trim@spaces\reserved@a
24752 \ifx\reserved@a\@empty\else
24753 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24754 }{%
24755 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24756 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24757 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24758 \scr@ifundefinedorrelax
24759 {scr@dte@\reserved@a @lastmaxnumwidth}{%
24760 \advance\@tempdima
24761 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24762 }{%
24763 \advance\@tempdima
24764 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24765 }%
24766 }{%
24767 \advance\@tempdima
24768 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24769 }%
24770 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24771 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24772 {\the\@tempdima}%
24773 \fi
24774 \fi
24775 }%
24776 \fi
24777 }%
24778 \fi
24779 }{}%
24780 {%
24781 \Iftocfeature{\@current}{noindent}{%
24782 \bidi@leftskip \z@
24783 }{%
24784 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24785 }%
24786 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24787 \parfillskip -\bidi@rightskip
24788 \@nameuse{Ifscr@tso@#1@raggedpage}{%
24789 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24790 }{}%
24791 \Iftocfeature{\@current}{noindent}{%
24792 \parindent \z@
24793 }{%
24794 \parindent \@nameuse{scr@tso@#1@indent}\relax
24795 }%
24796 \@afterindenttrue
24797 \interlinepenalty\@M
24798 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24799 \addtolength\bidi@rightskip\@flushglue
24800 \else
24801 \def\reserved@a{\raggedright}%
24802 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a

```



```

24803         \addtolength\bidirightskip\@flushglue
24804     \else
24805         \renewcommand\reserved@a{\raggedright}%
24806         \expandafter\ifx\cename ragged#1entry\endcename\reserved@a
24807         \addtolength\bidirightskip\@flushglue
24808     \fi
24809 \fi
24810 \fi
24811 \leavevmode
24812 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24813 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
24814     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{-%
24815         \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24816             \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24817         \fi
24818     }-%
24819 }{}}%
24820 \advance\bidileftskip \@tempdima
24821 \null\nobreak\hskip -\bidileftskip
24822 {%
24823     \usetocbasicnumberline
24824     \let\scr@dte@numberline@box\numberline@box
24825     \def\numberline@box##1{%
24826         \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24827         \global\scr@dte@tocline@numberwidth
24828         \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24829         \relax
24830         \ifdim \scr@dte@tocline@numberwidth
24831             >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24832             \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24833         \fi
24834         \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{-%
24835             \ifdim \scr@dte@tocline@numberwidth
24836                 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24837                 +\@nameuse{scr@tso@#1@numsep}\relax\relax
24838             \PackageWarning{tocbasic}{-%
24839                 number width of #1 toc entries should be
24840                 increased!\MessageBreak
24841                 Currently used number width =
24842                 \the\wd\scr@dte@tocline@numbox,\MessageBreak
24843                 Wanted number separation
24844                 \space\space\space =
24845                 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24846                 Reserved number width \space\space\space\space\space\space =
24847                 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24848             }-%
24849         \fi
24850     }-%
24851     \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24852     \@nameuse{Ifscr@tso@#1@breakafternumber}{-%
24853         {\parfillskip\@flushglue\par}\nobreak\hskip-\bidileftskip
24854     }{}}%
24855 }-%
24856 {\@nameuse{scr@tso@#1@entryformat}{-%

```



```

24857         #2%
24858         \nobreak
24859         {%
24860             \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
24861             \nobreak
24862             \expandafter\let\expandafter\scr@dte@pagenumberwidth
24863             \csname scr@tso@#1@pagenumberwidth\endcsname
24864             \@nameuse{scr@tso@#1@pagenumberbox}{%
24865                 \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24866             }%
24867         }%
24868     }}\@par
24869     }%
24870 }%
24871 \tocbasic@SetPenaltyByTOCLevel{#1}%
24872 \fi
24873 }
24874
24875
24876 \bidi@undef\scr@dte@def@1@tocline
24877 \bidi@undef\scr@dte@tocline@init
24878 \DeclareTOCEntryStyle{tocline}[{%
24879     \DefineTOCEntryLengthOption{beforeskip}%
24880     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24881     \DefineTOCEntryIfOption{breakafternumber}%
24882     {scr@tso@}{@breakafternumber}{line break after number flag}%
24883     \DefineTOCEntryIfOption{dynnumwidth}%
24884     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24885     \DefineTOCEntryListOption{indentfollows}%
24886     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24887     \DefineTOCEntryIfOption{dynindent}%
24888     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24889     \DefineTOCEntryCommandOption{entryformat}%
24890     {scr@tso@}{@entryformat}[1]{entry format}%
24891     \DefineTOCEntryCommandOption{entrynumberformat}%
24892     {scr@tso@}{@numberformat}[1]{entry number format}%
24893     \DefineTOCEntryCommandOption{linefill}{\TOCLineLeaderFill}%
24894     {scr@tso@}{@linefill}{filling between text and page number}%
24895     \DefineTOCEntryLengthOption{numsep}%
24896     {scr@tso@}{@numsep}{entry number separation}%
24897     \DefineTOCEntryCommandOption{onstarthigherlevel}%
24898     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24899     \DefineTOCEntryCommandOption{onstartlowerlevel}%
24900     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24901     \DefineTOCEntryCommandOption{onstartsamelevel}%
24902     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24903     \DefineTOCEntryCommandOption{pagenumberbox}%
24904     {scr@tso@}{@pagenumberbox}[1]{page number box}%
24905     \DefineTOCEntryCommandOption{pagenumberformat}%
24906     {scr@tso@}{@pagenumberformat}[1]{page number format}%
24907     \DefineTOCEntryLengthOption{pagenumberwidth}%
24908     {scr@tso@}{@pagenumberwidth}{width of page number box}%
24909     \DefineTOCEntryLengthOption{rightindent}%
24910     {scr@tso@}{@rightindent}{entry's text right indent}%

```



```

24911 \DefineTOCEntryOption{raggedentrytext}[true]{%
24912   \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
24913   \ifx\FamilyKeyState\FamilyKeyStateProcessed
24914     \if@tempswa
24915       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24916       \raggedright
24917     \else
24918       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24919       \relax
24920     \fi
24921   \fi
24922 }%
24923 \DefineTOCEntryIfOption{raggedpagenumber}%
24924   {scr@tso@}{@raggedpage}{page number ragged flag}%
24925 \DefineTOCEntryLengthOption{indent}%
24926   {scr@tso@}{@indent}{entry indent}%
24927 \DefineTOCEntryLengthOption{numwidth}%
24928   {scr@tso@}{@numwidth}{entry number width}%
24929 \scr@ifundefinedorrelax{#1tocdepth}{-%
24930   \Ifstrstart{#1}{sub}{-%
24931     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{-%
24932       \expandafter\edef\csname #1tocdepth\endcsname{%
24933         \the\numexpr \noexpand@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24934       }%
24935     }%
24936   }{}%
24937 }{}%
24938 \@ifundefined{#1tocdepth}{-%
24939   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{-%
24940     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{-%
24941       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{-%
24942         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{-%
24943           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{-%
24944             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{-%
24945               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{-%
24946                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{-%
24947                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{-%
24948                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24949                     \csname #1numdepth\endcsname
24950                   }%
24951                 }%
24952               }%
24953             }%
24954           }%
24955         }%
24956       }%
24957     }%
24958   }%
24959 }{}%
24960 \scr@ifundefinedorrelax{scr@tso@#1@indent}{-%
24961   \@ifundefined{scr@#1@tocindent}{-%
24962     \Ifstrstart{#1}{sub}{-%
24963       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{-%
24964         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-%

```



```

24965         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24966             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24967             \relax
24968         }%
24969     }%
24970 }{%
24971     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24972         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24973             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24974             \relax
24975         }%
24976     }{%
24977         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24978             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24979             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24980             \relax
24981         }%
24982     }%
24983 }%
24984 }-}%
24985 }{%
24986     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24987 }%
24988 }-}%
24989 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24990     \Ifstrstart{#1}{sub}{%
24991         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
24992             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
24993         }{%
24994             \expandafter\let
24995             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
24996             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
24997         }%
24998     }{%
24999         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25000     }%
25001 }-}%
25002 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25003     \Ifstrstart{#1}{sub}{%
25004         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25005             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25006         }{%
25007             \expandafter\let
25008             \csname scr@tso@#1@rightindent\expandafter\endcsname
25009             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25010         }%
25011     }{%
25012         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25013     }%
25014 }-}%
25015 \@ifundefined{scr@tso@#1@indent}{%
25016     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25017     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25018     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%

```



```

25019 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25020 \scr@ifundefinedorrelax{1@chapter}{%
25021 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25022 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25023 \Ifstr{#1}{subsubsection}{%
25024 \@namedef{scr@tso@#1@indent}{3.8em}%
25025 }{%
25026 \Ifstr{#1}{paragraph}{%
25027 \@namedef{scr@tso@#1@indent}{7em}%
25028 }{%
25029 \Ifstr{#1}{subparagraph}{%
25030 \@namedef{scr@tso@#1@indent}{10em}%
25031 }{%
25032 }%
25033 }%
25034 }%
25035 }%
25036 }%
25037 }{%
25038 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25039 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25040 \Ifstr{#1}{subsubsection}{%
25041 \@namedef{scr@tso@#1@indent}{7.0em}%
25042 }{%
25043 \Ifstr{#1}{paragraph}{%
25044 \@namedef{scr@tso@#1@indent}{10em}%
25045 }{%
25046 \Ifstr{#1}{subparagraph}{%
25047 \@namedef{scr@tso@#1@indent}{12em}%
25048 }{%
25049 }%
25050 }%
25051 }%
25052 }%
25053 }%
25054 }%
25055 }%
25056 }%
25057 }%
25058 }%
25059 }{%
25060 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25061 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25062 \Ifstrstart{#1}{sub}{%
25063 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}}{%
25064 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25065 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25066 +.9em%
25067 \relax
25068 }%
25069 }%
25070 }{%
25071 }{%
25072 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%

```



```

25073     }%
25074   }{}%
25075   \@ifundefined{scr@tso@#1@numwidth}{%
25076     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25077     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25078     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25079     \scr@ifundefinedorrelax{chapter}{%
25080     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25081     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25082     \Ifstr{#1}{subsubsection}{%
25083     \@namedef{scr@tso@#1@numwidth}{3.2em}%
25084     }{%
25085     \Ifstr{#1}{paragraph}{%
25086     \@namedef{scr@tso@#1@numwidth}{4.1em}%
25087     }{%
25088     \Ifstr{#1}{subparagraph}{%
25089     \@namedef{scr@tso@#1@numwidth}{5m}%
25090     }{%
25091     }%
25092     }%
25093     }%
25094     }%
25095     }%
25096   }{}%
25097   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25098   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25099   \Ifstr{#1}{subsubsection}{%
25100   \@namedef{scr@tso@#1@numwidth}{3.1em}%
25101   }{%
25102   \Ifstr{#1}{paragraph}{%
25103   \@namedef{scr@tso@#1@numwidth}{5em}%
25104   }{%
25105   \Ifstr{#1}{subparagraph}{%
25106   \@namedef{scr@tso@#1@numwidth}{6em}%
25107   }{%
25108   }%
25109   }%
25110   }%
25111   }%
25112   }%
25113   }%
25114   }%
25115   }%
25116   }%
25117 }{}%
25118 \expandafter\renewcommand%
25119 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25120 \expandafter\renewcommand%
25121 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25122 \expandafter\renewcommand%
25123 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25124 \@ifundefined{scr@tso@#1@beforeskip}{%
25125   \Ifstr{#1}{part}{%
25126     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%

```



```

25127   }{%
25128     \Ifstr{#1}{chapter}{%
25129       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25130     }{%
25131       \Ifstr{#1}{section}{%
25132         \scr@ifundefinedorrelax{1@chapter}{%
25133           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25134         }{}%
25135       }{}%
25136     }%
25137   }%
25138   \expandafter\renewcommand\expandafter*%
25139   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25140 }{}%
25141 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25142   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25143   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25144 }{}%
25145 \renewcommand*{\scr@dte@donumwidth}{}%
25146 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25147 \expandafter\renewcommand\expandafter*%
25148 \csname scr@tso@#1@numsep\endcsname{.4em}%
25149 \expandafter\renewcommand%
25150 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25151 \Ifstr{#1}{part}{%
25152   \expandafter\providecommand%
25153   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25154 }{%
25155   \Ifstr{#1}{chapter}{%
25156     \expandafter\providecommand%
25157     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25158   }{%
25159     \scr@ifundefinedorrelax{1@chapter}{%
25160       \Ifstr{#1}{section}{%
25161         \expandafter\providecommand%
25162         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25163       }{}%
25164     }{}%
25165     \expandafter\providecommand%
25166     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25167   }%
25168 }%
25169 \expandafter\renewcommand
25170 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25171 \@ifundefined{scr@tso@#1@linefill}{%
25172   \Ifstr{#1}{part}{%
25173     \@namedef{scr@tso@#1@linefill}{\hfill}%
25174   }{%
25175     \Ifstr{#1}{chapter}{%
25176       \@namedef{scr@tso@#1@linefill}{\hfill}%
25177     }{}%
25178     \scr@ifundefinedorrelax{1@chapter}{%
25179       \Ifstr{#1}{section}{%
25180         \@namedef{scr@tso@#1@linefill}{\hfill}%

```





```

25181     }{}%
25182   }{}%
25183     \expandafter\renewcommand%
25184     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25185   }%
25186 }%
25187 }{}%
25188 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25189 \Ifstr{#1}{part}{%
25190   \expandafter\providecommand%
25191   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25192 }{}%
25193 \Ifstr{#1}{chapter}{%
25194   \expandafter\providecommand%
25195   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25196 }{}%
25197 \scr@ifundefinedorrelax{1@chapter}{%
25198   \Ifstr{#1}{section}{%
25199     \expandafter\providecommand%
25200     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25201   }{}%
25202 }{}%
25203 \expandafter\providecommand%
25204 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25205   {\normalfont\normalcolor ##1}}%
25206 }%
25207 }%
25208 \expandafter\renewcommand%
25209 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25210   \hb@xt@\@nameuse{scr@dte@pagenumberwidth}{\hfil ##1}}%
25211 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25212 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25213 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25214   \Ifstrstart{#1}{sub}{%
25215     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25216       \scr@dte@nosub{#1}}%
25217   }%
25218 }{}%
25219 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25220 }%
25221 }{}%
25222 }]}{}%
25223 \scr@dte@tocline{#1}{##1}{##2}%
25224 }
25225
25226 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25227   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25228     {\normalfont\normalcolor #1}}%
25229   }%
25230 }{}
25231
25232 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25233   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25234     {\normalfont\normalcolor #1}}%

```



```

25235 }%
25236 }{}
25237

```

## 158 File tocstyle-xetex-bidi.def

```

25238 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25239 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25240   \let\numberline\tocstyle@numberline
25241   \ifnum #1>\c@tocdepth \else
25242     \if@tocstyle@penalties
25243       \begingroup
25244         \@tempcnta 20010
25245         \advance \@tempcnta by -#1
25246         \ifnum \@tempcnta>\lastpenalty
25247           \aftergroup\penalty\aftergroup\@lowpenalty
25248         \fi
25249       \endgroup
25250     \fi
25251     \edef\tocstyledepth{#1}%
25252     \tocstyle@activate@features
25253     \ifx\tocstyle@feature@entryvskip\relax
25254       \vskip \z@ \@plus.2\p@
25255     \else
25256       \addvspace{\tocstyle@feature@entryvskip}%
25257     \fi
25258     {%
25259       \parskip \z@ \parindent \z@ \if@RTL\righskip\else\leftskip\fi \z@ \if@RTL\leftskip\else
25260       \tocstyle@feature@raggedhook
25261       \@tempdima #3\relax
25262       \@tempdimb #2\relax
25263       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25264       \ifnum #1>\z@\relax
25265         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25266         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25267           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25268             \@tempdimb
25269             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25270             \advance\@tempdimb
25271             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25272           \fi
25273         \fi
25274       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25275       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25276         \ifdim \@tempdimb>
25277           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25278           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25279             @#1\endcsname{\the\@tempdimb}%
25280         \fi
25281       \else
25282         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25283           @#1\endcsname{\the\@tempdimb}%
25284       \fi
25285     }%

```



```

25286 \iftocstyle@autolength
25287 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25288 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25289 \relax
25290 \fi
25291 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25292 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25293 \relax
25294 \fi
25295 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25296 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25297 \else
25298 \@tempdimb #2\relax
25299 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25300 \fi
25301 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25302 \ifdim \@tempdima>
25303 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25304 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25305 @\endcsname{\the\@tempdima}%
25306 \fi
25307 \else
25308 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25309 @\endcsname{\the\@tempdima}%
25310 \fi
25311 \ifcase\tocstyle@indentstyle\relax\else
25312 \@tempdimb \z@
25313 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25314 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25315 \relax
25316 \fi
25317 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25318 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25319 \fi
25320 \advance\parindent \@tempdimb\@afterindenttrue
25321 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25322 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25323 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25324 \ifx\tocstyle@feature@parfillskip\relax\else
25325 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25326 \fi
25327 \interlinepenalty\@M
25328 \leavevmode
25329 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25330 \null\nobreak
25331 \iftocstyle@indentnotnumbered\else
25332 \hskip -\if@RTL\rightskip\else\leftskip\fi
25333 \fi
25334 \tocstyle@feature@entryhook
25335 {#4}\nobreak
25336 \ifx\tocstyle@feature@leaders\relax
25337 \leaders\hbox{\$}\m@th
25338 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25339 \mkern \@dotsep mu$\}hfill

```



```

25340     \else
25341       \tocstyle@feature@leaders
25342     \fi
25343     \nobreak
25344     \ifx\tocstyle@feature@pagenumberbox\relax
25345       \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25346     \else
25347       \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25348     \fi
25349     \par
25350   }%
25351   \if@tocstyle@penalties
25352     \bgroup
25353     \@tempcnta 20009
25354     \advance\@tempcnta by -#1
25355     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25356     \reserved@a
25357   \fi
25358 \fi}
25359 \renewcommand*{\tocstyle@numberline}[1]{%
25360 \begingroup
25361   \ifx\tocstyle@feature@spaceafternumber\relax
25362     \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
25363   \else
25364     \settowidth\@tempdima{\tocstyle@numberline{#1}}%
25365     \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25366   \fi
25367   \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25368     \ifdim \@tempdima >
25369       \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25370       \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25371         @\tocstyledepth\endcsname{\the\@tempdima}%
25372     \fi
25373   \else
25374     \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25375       @\tocstyledepth\endcsname{\the\@tempdima}%
25376   \fi
25377 \endgroup
25378 \iftocstyle@indentnotnumbered
25379   \hskip -\ifRTL\rightskip\else\leftskip\fi
25380 \fi
25381 \ifcase \tocstyle@indentstyle
25382   \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
25383 \or
25384   \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
25385 \else
25386   \ifx\tocstyle@feature@spaceafternumber\relax
25387     \hbox{\tocstyle@numberline{#1}\enskip}%
25388   \else
25389     \hbox{\tocstyle@numberline{#1}\hskip
25390       \tocstyle@feature@spaceafternumber\relax}%
25391   \fi
25392 \fi
25393 }

```



```

25394 \AtBeginDocument{%
25395   \ifcsname l@part\endcsname
25396     \ifcsname l@chapter\endcsname
25397       \setbox\@tempboxa\vbox{\hsize\maxdimen
25398         \l@part{\tocstyle@l@define{part}{-1}}{}}%
25399     \else
25400       \setbox\@tempboxa\vbox{\hsize\maxdimen
25401         \l@part{\tocstyle@l@define{part}{0}}{}}%
25402     \fi
25403 \fi
25404 \ifcsname l@chapter\endcsname
25405   \setbox\@tempboxa\vbox{\hsize\maxdimen
25406     \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25407 \fi
25408 \ifcsname l@section\endcsname
25409   \setbox\@tempboxa\vbox{\hsize\maxdimen
25410     \l@section{\tocstyle@l@define{section}{1}}{}}%
25411 \fi
25412 \ifcsname l@subsection\endcsname
25413   \setbox\@tempboxa\vbox{\hsize\maxdimen
25414     \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25415 \fi
25416 \ifcsname l@subsubsection\endcsname
25417   \setbox\@tempboxa\vbox{\hsize\maxdimen
25418     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25419 \fi
25420 \ifcsname l@paragraph\endcsname
25421   \setbox\@tempboxa\vbox{\hsize\maxdimen
25422     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25423 \fi
25424 \ifcsname l@subparagraph\endcsname
25425   \setbox\@tempboxa\vbox{\hsize\maxdimen
25426     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25427 \fi
25428 \ifcsname l@table\endcsname
25429   \setbox\@tempboxa\vbox{\hsize\maxdimen
25430     \l@table{\tocstyle@l@define{table}{1}}{}}%
25431 \fi
25432 \ifcsname l@figure\endcsname
25433   \setbox\@tempboxa\vbox{\hsize\maxdimen
25434     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25435 \fi
25436 \def\@tempa#1#2#3#4#5{%
25437   \ifnum #1>\c@tocdepth \else
25438     \vskip \z@ \@plus.2\p@
25439     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocdepth
25440     \parindent #2\relax\@afterindenttrue
25441     \interlinepenalty\@M
25442     \leavevmode
25443     \@tempdima #3\relax
25444     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righskip
25445     #4}\nobreak
25446     \leaders\hbox{$\m@th
25447       \mkern \dotsep mu\hbox{.}\mkern \dotsep

```



```

25448         mu$}\hfill
25449         \nobreak
25450         \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25451         \par}%
25452     \fi}%
25453 \ifx\@dottedtocline\@tempa\else
25454     \tocstyle@macrochangewarning\@dottedtocline
25455 \fi
25456 \let\tocstyle@saved@dottedtocline\@dottedtocline
25457 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25458 \ifx\numberline\@tempa\else
25459     \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25460     \ifx\numberline\@tempa\else
25461         \tocstyle@macrochangewarning\numberline
25462     \fi
25463 \fi
25464 \let\tocstyle@saved\@numberline\@numberline
25465 }
25466 \renewcommand*\@tocstyle@l@define}[2]{%
25467     \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
25468     \edef\@tempa{%
25469         \noexpand\global\noexpand\let
25470         \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25471         \expandafter\noexpand\csname l@#1\endcsname
25472         \noexpand\gdef
25473         \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25474             \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
25475         \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25476             \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25477             \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25478         }%
25479     }%
25480 \PackageInfo{tocstyle}{prepare \expandafter\string
25481     \csname l@#1\endcsname\space for redefinition}%
25482 \@tempa
25483 }

```

## 159 File todonotes-xetex-bidi.def

```

25484 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25485 \newif\if@bidi@todonotes@textdirection@RTL
25486 \newif\if@bidi@todonotes@figposition@right
25487 \newcommand{\@bidi@todonotes@align}{}%
25488 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25489 \newcommand{\@bidi@todonotes@textdirection}{}%
25490 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25491     \ifcase\@bidi@todonotes@tempb\relax
25492         \@bidi@todonotes@textdirection@RTLtrue
25493         \let\@bidi@todonotes@textdirection\@RLE
25494     \or
25495         \@bidi@todonotes@textdirection@RTLfalse
25496         \let\@bidi@todonotes@textdirection\@LRE
25497     \fi}
25498 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,

```



```

25499 \ifcase\@bidi@todonotes@tempb\relax
25500   \@bidi@todonotes@figposition@righttrue
25501   \or
25502   \@bidi@todonotes@figposition@rightfalse
25503 \fi}
25504 \if@todonotes@disabled%
25505 \else % \if@todonotes@disabled
25506 \renewcommand{\@todonotes@drawInlineNote}{%
25507   \if@todonotes@dviStyle%
25508     {\par\noindent\begin{tikzpicture}[remember picture]%
25509       \draw node[inlinenotestyle] {}; \end{tikzpicture}\par}%
25510     \if@todonotes@authorgiven%
25511       {\noindent \@todonotes@sizecommand \@todonotes@author:\, \@todonotes@text}%
25512     \else%
25513       {\noindent \@todonotes@sizecommand \@todonotes@text}%
25514     \fi
25515     {\par\noindent\begin{tikzpicture}[remember picture]%
25516       \draw node[inlinenotestyle] {}; \end{tikzpicture}\par}%
25517   \else%
25518     {\par\noindent\begin{tikzpicture}[remember picture]%
25519       \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25520       \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25521         \if@todonotes@authorgiven%
25522           {\noindent \@todonotes@sizecommand \@todonotes@author:\, \@todonotes@text
25523         \else%
25524           {\noindent \@todonotes@sizecommand \@todonotes@text}%
25525         \fi};%
25526       \end{tikzpicture}\par}%
25527   \fi}%
25528 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25529 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25530   \node [coordinate] (inText) {};%
25531 \end{tikzpicture}%
25532 \marginpar[{\% Draw note in left margin
25533   \@todonotes@drawMarginNote%
25534   \if@RTL@\@todonotes@drawLineToRightMargin\else@\@todonotes@drawLineToLeftMargin\fi%
25535 }]{\% Draw note in right margin
25536   \@todonotes@drawMarginNote%
25537   \if@RTL@\@todonotes@drawLineToLeftMargin\else@\@todonotes@drawLineToRightMargin\fi%
25538 }%
25539 }%
25540 \renewcommand{\@todonotes@drawMarginNote}{%
25541 \if@todonotes@dviStyle%
25542   \begin{tikzpicture}[remember picture]%
25543     \draw node[notestyle] {};%
25544   \end{tikzpicture}\%
25545   \begin{minipage}{\@todonotes@textwidth}%
25546     \if@todonotes@authorgiven%
25547       \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25548     \else%
25549       \@todonotes@sizecommand \@todonotes@text%
25550     \fi%
25551   \end{minipage}\%
25552   \begin{tikzpicture}[remember picture]%

```



```

25553     \draw node[notestyle] (inNote) {};%
25554     \end{tikzpicture}%
25555 \else%
25556     \let\originalHbadness\hbadness%
25557     \hbadness 100000%
25558     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25559     \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25560     \node(X){\vphantom{X}};%
25561     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25562     {\@todonotes@text};%
25563     \if@todonotes@authorgiven%
25564     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25565     {\@todonotes@sizecommand\@todonotes@author};%
25566     \node(Y)[below=of X]{};%
25567     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25568     {\@todonotes@text};%
25569     \else%
25570     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25571     {\@todonotes@text};%
25572     \fi%
25573     \end{tikzpicture}%
25574     \hbadness \originalHbadness%
25575 \fi}%
25576 \renewcommand{\missingfigure}[2] [] {%
25577 \setkeys{todonotes}{#1}%
25578 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25579 \par
25580 \noindent
25581 \begin{tikzpicture}
25582 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25583 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25584 \if@bidi@todonotes@figposition@right%
25585 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25586 \fi%
25587 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25588 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25589 \if@bidi@todonotes@figposition@right%
25590 \end{scope}
25591 \begin{scope}[xshift=-3.8cm]
25592 \fi%
25593 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25594 \draw (2, -0.3) node[right, text
25595 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25596 \if@bidi@todonotes@figposition@right%
25597 \end{scope}
25598 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25599 \fi%
25600 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
25601 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
25602 \if@bidi@todonotes@figposition@right%
25603 \end{scope}
25604 \fi%
25605 \end{tikzpicture}\hfill
25606 }% Ending \missingfigure command

```





```

25607 \fi % Ending \@todonotes@ifdisabled
25608 \presetkeys%
25609   {todonotes}%
25610   {align=left,%
25611   textdirection=lefttoright,%
25612   figposition=left}{}%

```

## 160 File wrapfig-xetex-bidi.def

```

25613 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25614 \let\WF@everypar\ bidi@n@everypar
25615 \def\WF@putfigmaybe{%
25616 \ifinner
25617   \vskip-\parskip \global\WF@floatfalse
25618   \let\pagetotal\maxdimen % kludge flag for "not top of page"
25619 \else % outer page
25620   \@tempdima\pagedepth % save page depth
25621   {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25622   \penalty\interlinepenalty % update pg. parameters
25623   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25624   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25625     \global\WF@floatfalse
25626     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25627   \else
25628     \ifdim\WF@size>\@tempdimb
25629       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25630       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25631       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25632       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25633       \advance\dimen@.5\baselineskip
25634       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch;}%
25635         \global\WF@floatfalse \pagebreak
25636       \fi
25637       \else % \WF@info{Fits in \the\@tempdimb;}%
25638         \global\WF@floatfalse
25639       \fi\fi
25640     \vskip\@tempdima\relax % (return erased page depth)
25641 \fi
25642 \noindent
25643 \ifWF@float
25644   \WF@fltmes
25645 \else % putting here;
25646   \WF@info{Put \WF@wfname here;}%
25647   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25648     \lcode`i`l\lcode`o`r\else \lcode`i`r\lcode`o`l\fi
25649     \xdef\WF@place{\the\lcode\lcode\WF@place}}% twice to get only l or r
25650   \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25651     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25652     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25653     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25654     \xdef\WF@adjlw{\the\@tempdima}%
25655     \ifnum `l=\WF@place % fig on left
25656       \if@RTL%
25657       \kern\@tempdimb \kern\columnsep

```



```

25658 \def\@tempa{\hss}% position to left of the gap
25659 \else%
25660 \hss % figure overlaps space to the left
25661 \def\@tempa{\kern\columnsep}% position to left of the gap
25662 \fi%
25663 \else % fig on right
25664 \if@RTL%
25665 \hss
25666 \@tempdima\z@
25667 \def\@tempa{\kern\columnsep}
25668 \else%
25669 \@tempdima\z@ % no left indentation
25670 \kern\@tempdimb \kern\columnsep
25671 \def\@tempa{\hss}% figure overlaps space to the right
25672 \fi%
25673 \fi
25674 \ifdim\@tempdimb<\hspace
25675 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25676 \xdef\WF@adjtlm{\the\@tempdima}%
25677 \else
25678 \xdef\WF@wrapil{\z@ \the\hspace}%
25679 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25680 \fi
25681 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25682 \global\advance\WF@size-\intextsep
25683 \else % \WF@info{Putting \WF@wfname in middle of page}%
25684 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25685 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25686 }% end \hbox to Opt
25687 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25688 \fi}

```

## 161 File xcolor-xetex-bidi.def

```

25689 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25690 \long\def\color@b@x#1#2#3%
25691 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25692 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25693 \dimen@ht\z@\advance\dimen@\fbboxsepht\z@\dimen@
25694 \dimen@dp\z@\advance\dimen@\fbboxsepdp\z@\dimen@
25695 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25696 \protected\def\normalcolor{\let\current@color\default@color\ifmmode\if@RTL\beginL\aftergroup
25697 \DeclareRobustCommand\color
25698 {\ifmmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor]}
25699 \def\@undeclaredcolor[#1]#2%
25700 {\begingroup
25701 \let@@cls\@empty
25702 \XC@getmodclr12{#1}{#2}{}}%
25703 {\ifblendcolors
25704 \ifx\colorblend\@empty\else
25705 \edef\@mix{\expandafter\gobble\colorblend}\@tempwafalse
25706 \XC@coremodel\@mod\@clr\@xcolor@{}{}@\mod\@clr
25707 \fi
25708 \fi}

```



```

25709 \ifconvertcolorsU
25710 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25711 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25712 \fi
25713 \ifmaskcolors
25714 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25715 \let\@mod\XC@mmod
25716 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25717 \expandafter\XC@mul\@tmp,\@clr
25718 \fi
25719 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25720 \expandafter\endgroup\@tmp}}
25721 \def\@declaredcolor#1%
25722 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25723 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25724 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25725 \ifconvertcolorsU\XC@tsttrue\fi
25726 \fi
25727 \ifXC@tst
25728 \expandafter\XC@declaredcolor\else
25729 \expandafter\XC@declaredcolor\fi}
25730 \def\XC@undeclaredcolor#1#2%
25731 {\@ifundefinedmodel{#1}%
25732 {\c@lor@error{model `#1'}}%
25733 {\@nameuse{color@#1}\current@color{#2}}%
25734 \edef\XC@current@color{\noexpand\color@{\current@color}{#1}{#2}}%
25735 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25736 \def\XC@declaredcolor
25737 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}}%
25738 \edef\current@color{\XC@current@color}%
25739 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25740 \DeclareRobustCommand\bidicolor
25741 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
25742 \def\@bidiundeclaredcolor[#1]#2%
25743 {\begingroup
25744 \let\@cls\@empty
25745 \XC@getmodclr12{#1}{#2}{}}%
25746 {\ifblendcolors
25747 \ifx\colorblend\@empty\else
25748 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
25749 \XC@coremodel\@mod\@clr\@xcolor@{\}\@mod\@clr
25750 \fi
25751 \fi
25752 \ifconvertcolorsU
25753 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25754 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25755 \fi
25756 \ifmaskcolors
25757 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25758 \let\@mod\XC@mmod
25759 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25760 \expandafter\XC@mul\@tmp,\@clr
25761 \fi
25762 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%

```



```

25763     \expandafter\endgroup\@@tmp}}
25764 \def\XC@bidiundeclaredcolor#1#2%
25765   {\@ifundefinedmodel{#1}%
25766     {\color@error{model `#1'}}%
25767     {\@nameuse{color@#1}\current@color{#2}}%
25768     \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25769     \XC@display}}
25770 \def\@bidideclaredcolor#1%
25771   {\XC@edef\XC@tmp{#1}\XC@tstfalse
25772   \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25773     \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25774     \ifconvertcolorsU\XC@tsttrue\fi
25775     \fi
25776     \ifXC@tst
25777       \expandafter\XC@bidideclaredcolor\else
25778       \expandafter\XC@bidideclaredcolor\fi}
25779 \def\XC@bidideclaredcolor
25780   {\XC@split\XC@tmp
25781   \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25782   \expandafter\endgroup\@tmp}
25783 \def\XC@bidideclaredcolor
25784   {\XC@let\NC\XC@current@color{\string\color@\XC@tmp}%
25785   \edef\current@color{\XC@current@color}%
25786   \XC@display}
25787 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1}{#2}}
25788 \def\color@fbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25789 \def\color@fb@x#1#2#3#4%
25790   {\color@b@x{\fboxsep\z@\bidicolor#1}{#2}\XC@fbox}%
25791   {\@ifempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}
25792 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 162 File latex-xetex-bidi.def

```

25793 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25794 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
25795 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
25796 \TeXXeTOn
25797 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25798   \let\bidi@o@everypar=\everypar
25799   \newtoks\bidi@n@everypar
25800   \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25801   \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25802   \let\everypar=\bidi@n@everypar
25803 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25804 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25805 \protected\def\hboxR{\hbox\bggroup
25806   \everyhbox{}%
25807   \aftergroup\egroup
25808   \everyhbox{}%
25809   \beginR
25810   \@hboxRconstructtrue
25811   \bggroup
25812   \aftergroup\endR
25813   \aftergroup\egroup

```



```

25814 } \hbox}
25815 \protected\def \hboxL{\hbox\bgroup
25816 \everyhbox{%
25817 \aftergroup\egroup
25818 \everyhbox{}}%
25819 \beginL
25820 \@hboxRconstructfalse
25821 \bgroup
25822 \aftergroup\endL
25823 \aftergroup\egroup
25824 } \hbox}
25825 \protected\def \vboxR{\vbox\bgroup
25826 \everyvbox{%
25827 \aftergroup\egroup
25828 \everyvbox{}}%
25829 \@RTLtrue
25830 \@RTLtabtrue
25831 \bgroup
25832 \aftergroup\egroup
25833 } \vbox}
25834 \protected\def \vboxL{\vbox\bgroup
25835 \everyvbox{%
25836 \aftergroup\egroup
25837 \everyvbox{}}%
25838 \@RTLfalse
25839 \@RTLtabfalse
25840 \bgroup
25841 \aftergroup\egroup
25842 } \vbox}
25843 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
25844 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
25845 \def \LTR{\par \@RTLfalse \@RTL@footnotefalse \@RTLtabfalse \hspace\linewidth \parshape\z@\bidi@beamer}
25846 \def \endLTR{\par}
25847 \newenvironment{LTR*}{\LTR
25848 \everypar{%
25849   {\setbox\z@\lastbox
25850     \ifvoid\z@
25851       \kern-\parindent
25852     \fi}}%
25853 }%
25854 }{\endLTR\@endptrue}
25855 \def \RTL{\par \@RTLtrue \@RTL@footnotettrue \@RTLtabtrue \hspace\linewidth \parshape\z@\bidi@beamer}
25856 \def \endRTL{\par}
25857 \newenvironment{RTL*}{\RTL
25858 \everypar{%
25859   {\setbox\z@\lastbox
25860     \ifvoid\z@
25861       \kern-\parindent
25862     \fi}}%
25863 }%
25864 }{\endRTL\@endptrue}
25865 \def \setRTL{\@RTLtrue \@RTL@footnotettrue \@RTLtabtrue \bidi@beamer@ragged}
25866 \def \setLTR{\@RTLfalse \@RTL@footnotefalse \@RTLtabfalse \bidi@beamer@ragged}
25867 \let \unsetRTL=\setLTR

```



```

25868 \let\unsetLTR=\setRTL
25869 \let\LR=\LRE
25870 \let\RL=\RLE
25871 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25872 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25873 \let\@ensure@RL=\@ensure@RTL
25874 \let\@ensure@LR=\@ensure@LTR
25875 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25876 \let\@ensure@maindir=\@ensure@dir
25877 \def\@@RTL{RTL}
25878 \def\@@LTR{LTR}
25879 \def\save@dir{\if@RTL\gdef\save@@dir{RTL}\else\gdef\save@@dir{LTR}\fi}
25880 \def\reset@dir{\ifx\save@@dir\@@RTL\setRTL\else\ifx\save@@dir\@@LTR\setLTR\else\relax\fi}
25881 \let\@@TeX\TeX
25882 \def\TeX{\@ensure@LTR{\@@TeX}}
25883 \let\@@LaTeX\LaTeX
25884 \def\LaTeX{\@ensure@LTR{\@@LaTeX}}
25885 \let\@@LaTeXe\LaTeXe
25886 \def\LaTeXe{\@ensure@LTR{\@@LaTeXe}}
25887 \long\def\@bidi@reflect@box#1{%
25888   \leavevmode
25889   \setbox\z@\hbox{#1}}%
25890   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
25891   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
25892 }
25893 \if@bidi@csundef{XeTeX}{%
25894 \bidi@newrobustcmd*{XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25895   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25896 }{%
25897 \let\@bidi@orig@XeTeX\XeTeX
25898 \bidi@renewrobustcmd*{XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25899 }
25900 \if@bidi@csundef{XeLaTeX}{%
25901 \bidi@newrobustcmd*{XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25902   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
25903 }{%
25904 \let\@bidi@orig@XeLaTeX\XeLaTeX
25905 \bidi@renewrobustcmd*{XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25906 }
25907 \let\setRL=\setRTL
25908 \let\setLR=\setLTR
25909 \let\unsetRL=\setLTR
25910 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25911 \ApplyPatchIfPackageLoaded{array}{%
25912 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25913   \leavevmode
25914   \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
25915   \let\d@llarend\end\group
25916   \@tabarray}
25917 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25918 }{%
25919 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25920   \leavevmode \hbox \bgroup
25921   $\left.\let\@acol\@tabacol

```



```

25922 \let\@classz\@tabclassz
25923 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25924
25925 \def\endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
25926 \egroup\right\rbrace $\egroup}}
25927 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25928 \ialign{##\hfil$\&\quad{##}\hfil\crrc#1\crrc}}\,\right\}}
25929 \renewenvironment{RTLcases}{%
25930 \bidi@matrix@check\RTLcases\env@RTLcases
25931 }{%
25932 \endbidi@tabular@RTLcases%
25933 }
25934 \def\env@RTLcases{%
25935 \let\@ifnextchar\bidi@new@ifnextchar
25936 \def\arraystretch{1.2}%
25937 \bidi@tabular@RTLcases{\r{\quad}r{\}}%
25938 }
25939 \def\SepMark#1{\gdef\@SepMark{#1}}
25940 \SepMark{.}
25941 \def\@thmcountersep{\@SepMark}
25942 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25943 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25944 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25945 \newcommand*{\bidi@thebibliography@font@hook}{}
25946 \def\list#1#2{%
25947 \ifnum \@listdepth >5\relax
25948 \toodeep
25949 \else
25950 \global\advance\@listdepth\@ne
25951 \fi
25952 \rightmargin\z@
25953 \listparindent\z@
25954 \itemindent\z@
25955 \csname @list\romannumeral\the\@listdepth\endcsname
25956 \def\@itemlabel{#1}%
25957 \let\makelabel\@mklab
25958 \@nmbriestfalse
25959 #2\relax
25960 \@trivlist
25961 \parskip\parsep
25962 \parindent\listparindent
25963 \advance\linewidth -\rightmargin
25964 \advance\linewidth -\leftmargin
25965 \if@bidi@list@minipage@parbox
25966 \if@RTL
25967 \advance\@totalleftmargin \leftmargin
25968 \else
25969 \advance\@totalleftmargin \rightmargin
25970 \fi
25971 \else
25972 \if@hboxRconstruct
25973 \if@bidi@list@minipage@parbox@not@nob
25974 \if@RTL
25975 \advance\@totalleftmargin \rightmargin

```



```

25976 \else
25977   \advance\@totalleftmargin \leftmargin
25978 \fi
25979 \else
25980 \if@RTL
25981 \advance\@totalleftmargin \leftmargin
25982 \else
25983 \advance\@totalleftmargin \rightmargin
25984 \fi\fi
25985 \else
25986 \if@RTL
25987   \advance\@totalleftmargin \rightmargin
25988 \else
25989   \advance\@totalleftmargin \leftmargin
25990 \fi\fi\fi
25991 \parshape \@ne \@totalleftmargin \linewidth
25992 \ignorespaces}
25993 \long\def\@iiiparbox#1#2[#3]#4#5{%
25994 \leavevmode
25995 \@pboxswfalse
25996 \if@hboxRconstruct
25997   \@bidi@list@minipage@parbox@not@nobtrue
25998 \fi
25999 \if@RTL
26000   \ifx#1%
26001     \@bidi@list@minipage@parboxtrue
26002   \else
26003     \ifx#1b%
26004       \@bidi@list@minipage@parboxtrue
26005     \fi
26006   \fi
26007 \fi
26008 \setlength\@tempdima{#4}%
26009 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
26010 \ifx\relax#2\else
26011   \setlength\@tempdimb{#2}%
26012   \edef\@parboxto{to\the\@tempdimb}%
26013 \fi
26014 \if#1b\vbox
26015 \else\if #1t\vtop
26016 \else\ifmmode\vcenter
26017 \else\@pboxswtrue $\vcenter
26018 \fi\fi\fi
26019 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26020   \csname bm@#3\endcsname}%
26021 \if@pboxsw \m@th$\fi
26022 \@end@tempboxa}
26023 \newenvironment{LTRitems}
26024   {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26025   \if@bidi@list@minipage@parbox
26026     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26027   \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26028     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26029     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi

```





```

26030         \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26031         \ignorespaces}{\vskip\z@}
26032 \newenvironment{RTLitems}
26033     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26034     \if@bidi@list@minipage@parbox
26035     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26036     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26037     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26038     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26039     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26040     \ignorespaces}{\vskip\z@}
26041 \newenvironment{LTRbibitems}
26042     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26043     \if@bidi@list@minipage@parbox
26044     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26045     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26046     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26047     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26048     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26049     \ignorespaces}{\vskip\z@}
26050 \newenvironment{RTLbibitems}
26051     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26052     \if@bidi@list@minipage@parbox
26053     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26054     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26055     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26056     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26057     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26058     \ignorespaces}{\vskip\z@}
26059 \def\raggedright{%
26060     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26061     \leftskip\z@skip
26062     \parindent\z@\parfillskip\z@skip}
26063 \let\bidi@orig@raggedleft\raggedleft
26064 \let\bidi@orig@raggedright\raggedright
26065 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@hboxRco
26066 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@hboxRco
26067 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26068 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26069 \DeclareRobustCommand\centerline[1]{%
26070 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26071 \else\@@line{\hss#1\hss}\fi}
26072 \def\bidi@orig@leftline#1{%
26073 \if@RTL\@@line{\beginR#1\endR\hss}
26074 \else\@@line{#1\hss}\fi}
26075 \def\bidi@orig@rightline#1{%
26076 \if@RTL\@@line{\hss\beginR#1\endR}
26077 \else\@@line{\hss#1}\fi}
26078 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@lef
26079 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@rig
26080 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26081 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26082 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
26083     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}

```



```

26084 \def\narrower{%
26085   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26086   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26087 \DeclareRobustCommand\underline[1]{%
26088   \relax
26089   \ifmode\@@underline{#1}%
26090   \else
26091   \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26092   \else
26093   $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26094 \if@compatibility
26095   \let\underline=\underline
26096 \fi
26097 \def\@tabular{%
26098   \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26099   $\let\@acol\@tabacol
26100   \let\@classz\@tabclassz
26101   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26102 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
26103   \egroup $\if@RTLtab\endR\fi\egroup}
26104 \expandafter \let \csname endtabular*\endcsname = \endtabular
26105 \def\@array[#1]#2{%
26106   \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26107   \bgroup
26108   \setbox\@arstrutbox\hbox{%
26109     \vrule \@height\arraystretch\ht\strutbox
26110     \@depth\arraystretch \dp\strutbox
26111     \@width\z@}%
26112   \@mkpream{#2}%
26113   \edef\@preamble{%
26114     \ialign \noexpand\@halignto
26115       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26116   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26117   \let\@tabularnewline\%
26118   \let\par\@empty
26119   \let\@sharp##%
26120   \set@typeset@protect
26121   \lineskip\z@skip\baselineskip\z@skip
26122   \ifhmode \@preamerr\z@ \@@par\fi
26123   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26124   \@preamble}
26125 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26126   \let\@classiv\@arrayclassiv
26127   \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26128 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26129   \ifnum \@lastchclass=3 5 \else
26130   \z@ \if #1c\@chnum \z@ \else
26131     \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26132     \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26133     \@chclass \if #1|\@ne \else
26134     \if #1@\tw@ \else
26135     \if #1p3 \else \z@ \@preamerr 0\fi
26136   \fi \fi \fi \fi \fi \fi
26137 \fi}

```



```

26138 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26139 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26140 \def\bm@t{\unhbox\@tempboxa\hss}
26141 \def\bm@b{\hss\unhbox\@tempboxa}
26142 \def\@dottedtocline#1#2#3#4#5{%
26143   \ifnum #1>\c@tocdepth \else
26144     \vskip \z@ \@plus.2\p@
26145     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrama
26146     \parindent #2\relax\@afterindenttrue
26147     \interlinepenalty\M
26148     \leavevmode
26149     \@tempdima #3\relax
26150     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26151     {#4}\nobreak
26152     \leaders\hbox{$\m@th
26153       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26154       mu$}\hfill
26155     \nobreak
26156     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
26157     \par}%
26158 \fi}
26159
26160 \newcount\ bidi@column@check@number
26161
26162 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
26163
26164 \def\ bidi@set@column@status#1#2{%
26165   \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
26166
26167 \if@twocolumn
26168 \newcommand\DetectColumn[3][1]{%
26169   \ifx\ bidi@firstcolumn@status\write\relax
26170     \PackageError{bidi}%
26171       {Option 'DetectColumn' not selected}%
26172       {\string\DetectColumn\space
26173       requires the use of the 'DetectColumn'
26174       option on the package}%
26175 \fi
26176 \global\advance\ bidi@column@check@number\@ne
26177 \edef\ bidi@column@type{\expandafter\ifx
26178   \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26179   0\else
26180   \csname bidi@column-\the\ bidi@column@check@number\endcsname
26181   \fi}%
26182 \ifcase \ bidi@column@type\relax
26183   \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
26184 \or
26185   #2% % 1 First column
26186 \or
26187   #3% % 2 Second (Last column)
26188 \else
26189   \ERROR
26190 \fi
26191 \edef\next{\write\@auxout

```



```

26192     {\string\ bidi@set@column@status{\bidi@column-\the\bidi@column@check@number}}%
26193     {\bidi@column@type}}}%
26194   \next
26195 }
26196
26197 \AtEndDocument{\def\bidi@set@column@status#1#2{%
26198   \ifnum #2=\bidi@current@column@status\else
26199     \@tempwatruel
26200     \fi}%
26201 }
26202 \fi
26203
26204 \def\RTL@outputdblcol{%
26205   \if@firstcolumn
26206     \global\@firstcolumnfalse
26207     \global\setbox\@leftcolumn\copy\@outputbox
26208     \splitmaxdepth\maxdimen
26209     \vbadness\maxdimen
26210     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26211     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26212     \toks@\expandafter{\topmark}%
26213     \xdef\@firstcoltopmark{\the\toks@}%
26214     \toks@\expandafter{\splitfirstmark}%
26215     \xdef\@firstcolfirstmark{\the\toks@}%
26216     \ifx\@firstcolfirstmark\@empty
26217       \global\let\@setmarks\relax
26218     \else
26219       \gdef\@setmarks{%
26220         \let\firstmark\@firstcolfirstmark
26221         \let\topmark\@firstcoltopmark}%
26222     \fi
26223   \else
26224     \global\@firstcolumntrue
26225     \setbox\@outputbox\vbox{%
26226       \hb@xt@\textwidth{%
26227         \hskip \columnwidth
26228         \hfil
26229         {\normalcolor\vrule \@width\columnseprule}%
26230         \hfil
26231         \hb@xt@\columnwidth{%
26232           \bidi@firstcolumn@status@write%
26233           \box\@leftcolumn \hss}%
26234         \hskip -\textwidth
26235         \hb@xt@\columnwidth{%
26236           \bidi@lastcolumn@status@write%
26237           \box\@outputbox \hss}%
26238         \hskip \columnsep
26239         \hskip \columnwidth }}%
26240   \@combinedblfloats
26241   \@setmarks
26242   \@outputpage
26243   \begingroup
26244   \@dblfloatplacement
26245   \@startdblcolumn

```



```

26246     \@whilesw\if@fcolmade \fi{\@outputpage
26247     \@startdblcolumn}%
26248     \endgroup
26249     \fi}%
26250
26251 \def\LTR@outputdblcol{%
26252     \if@firstcolumn
26253     \global\@firstcolumnfalse
26254     \global\setbox\@leftcolumn\copy\@outputbox
26255     \splitmaxdepth\maxdimen
26256     \vbadness\maxdimen
26257     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26258     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26259     \toks@\expandafter{\topmark}%
26260     \xdef\@firstcoltopmark{\the\toks@}%
26261     \toks@\expandafter{\splitfirstmark}%
26262     \xdef\@firstcolfirstmark{\the\toks@}%
26263     \ifx\@firstcolfirstmark\@empty
26264     \global\let\@setmarks\relax
26265     \else
26266     \gdef\@setmarks{%
26267     \let\firstmark\@firstcolfirstmark
26268     \let\topmark\@firstcoltopmark}%
26269     \fi
26270     \else
26271     \global\@firstcolumntrue
26272     \setbox\@outputbox\vbox{%
26273     \hb@xt@\textwidth{%
26274     \hb@xt@\columnwidth{%
26275     \bidi@firstcolumn@status@write%
26276     \box\@leftcolumn \hss}%
26277     \hfil
26278     {\normalcolor\vrule \@width\columnseprule}%
26279     \hfil
26280     \hb@xt@\columnwidth{%
26281     \bidi@lastcolumn@status@write%
26282     \box\@outputbox \hss}}}%
26283     \@combinedblfloats
26284     \@setmarks
26285     \@outputpage
26286     \begingroup
26287     \@dblfloatplacement
26288     \@startdblcolumn
26289     \@whilesw\if@fcolmade \fi{\@outputpage
26290     \@startdblcolumn}%
26291     \endgroup
26292     \fi}%
26293
26294
26295 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26296 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26297 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26298
26299 \bidi@patchcmd\@makecol{%

```



```

26300 \ifvoid\footins
26301   \setbox\@outputbox \box\@cclv
26302 \else
26303   \setbox\@outputbox \vbox {%
26304     \boxmaxdepth \@maxdepth
26305     \unvbox \@cclv
26306     \vskip \skip\footins
26307     \color@begingroup
26308     \normalcolor
26309     \footnoterule
26310     \unvbox \footins
26311     \color@endgroup
26312   }%
26313 \fi
26314 }{%
26315 \ifvoid\footins
26316   \ifvoid\@bidi@copyins@
26317     \setbox\@outputbox \box\@cclv
26318   \else
26319     \setbox\@outputbox \vbox {%
26320       \boxmaxdepth \@maxdepth
26321       \unvbox \@cclv
26322       \vskip \skip\@bidi@copyins@
26323       \color@begingroup
26324       \normalcolor
26325       \unvbox \@bidi@copyins@
26326     \color@endgroup
26327   }%
26328 \fi
26329 \else
26330   \setbox\@outputbox \vbox {%
26331     \boxmaxdepth \@maxdepth
26332     \unvbox \@cclv
26333     \vskip \skip\footins
26334     \color@begingroup
26335     \normalcolor
26336     \footnoterule
26337     \unvbox \footins
26338     \color@endgroup
26339     \ifvoid\@bidi@copyins@
26340     \else
26341       \vskip \skip\@bidi@copyins@
26342       \color@begingroup
26343       \normalcolor
26344       \unvbox \@bidi@copyins@
26345     \color@endgroup
26346     \fi
26347   }%
26348 \fi
26349 }{}{}
26350
26351 \def\LTRmarginpar{%
26352   \ifhmode
26353     \@bsphack

```



```

26354 \floatpenalty -\@Mii
26355 \else
26356 \floatpenalty-\@Miii
26357 \fi
26358 \ifinner
26359 \@parmoderr
26360 \floatpenalty\z@
26361 \else
26362 \@next\@currbox\@freelist{}{}%
26363 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26364 {\floatpenalty\z@
26365 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26366 \fi
26367 \@ifnextchar [\@LTRxmpar\@LTRympar}
26368 \long\def\@LTRxmpar[#1]#2{%
26369 \@LTRsavemarbox\@marbox{#1}%
26370 \@LTRsavemarbox\@currbox{#2}%
26371 \@xympar}
26372 \long\def\@LTRympar#1{%
26373 \@LTRsavemarbox\@marbox{#1}%
26374 \global\setbox\@currbox\copy\@marbox
26375 \@xympar}
26376 \long\def \@LTRsavemarbox #1#2{%
26377 \global\setbox #1%
26378 \color@vbox
26379 \vtop{%
26380 \hsize\marginparwidth
26381 \@parboxrestore
26382 \@LTRmarginparreset
26383 #2%
26384 \@minipagefalse
26385 \outer@nobreak
26386 }%
26387 \color@endbox
26388 }
26389 \def \@LTRmarginparreset {%
26390 \reset@font
26391 \normalsize
26392 \@minipagetrue
26393 \everypar{\@minipagefalse\everypar{} \beginL}%
26394 }
26395 \def\RTLmarginpar{%
26396 \ifhmode
26397 \@bsphack
26398 \floatpenalty -\@Mii
26399 \else
26400 \floatpenalty-\@Miii
26401 \fi
26402 \ifinner
26403 \@parmoderr
26404 \floatpenalty\z@
26405 \else
26406 \@next\@currbox\@freelist{}{}%
26407 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%

```



```

26408      {\floatpenalty\z@
26409        \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26410      \fi
26411      \@ifnextchar [\@RTLxmpar\@RTLympar}
26412 \long\def\@RTLxmpar[#1]#2{%
26413   \@RTLSavemarbox\@marbox{#1}%
26414   \@RTLSavemarbox\@currbox{#2}%
26415   \@xympar}
26416 \long\def\@RTLympar#1{%
26417   \@RTLSavemarbox\@marbox{#1}%
26418   \global\setbox\@currbox\copy\@marbox
26419   \@xympar}
26420 \long\def \@RTLSavemarbox #1#2{%
26421   \global\setbox #1%
26422     \color@vbox
26423     \vtop{%
26424       \hsize\marginparwidth
26425       \@parboxrestore
26426       \@RTLMarginparreset
26427       #2%
26428       \@minipagefalse
26429       \outer@nobreak
26430     }%
26431   \color@endbox
26432 }
26433 \def \@RTLMarginparreset {%
26434   \reset@font
26435   \normalsize
26436   \@minipagetrue
26437   \everypar{\@minipagefalse\everypar{}}\beginR}%
26438 }
26439 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26440   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26441   \if@twocolumn
26442     \if@firstcolumn \@tempcnta\m@ne \fi
26443   \else
26444     \if@mparswitch
26445       \ifodd\c@page \else\@tempcnta\m@ne \fi
26446     \fi
26447     \if@reversemargin \@tempcnta -\@tempcnta \fi
26448   \fi
26449   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26450   \@tempdima\@mparbottom
26451   \advance\@tempdima -\@pageht
26452   \advance\@tempdima\ht\@marbox
26453   \ifdim\@tempdima >\z@
26454     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26455   \else
26456     \@tempdima\z@
26457   \fi
26458   \global\@mparbottom\@pageht
26459   \global\advance\@mparbottom\@tempdima
26460   \global\advance\@mparbottom\dp\@marbox
26461   \global\advance\@mparbottom\marginparpush

```





```

26462 \advance\@tempdima -\ht\@marbox
26463 \global\setbox \@marbox
26464 \vbox {\vskip \@tempdima
26465 \box \@marbox}%
26466 \global \ht\@marbox \z@
26467 \global \dp\@marbox \z@
26468 \kern -\@pagedp
26469 \nointerlineskip
26470 \hb@xt@\columnwidth
26471 {\if@RTL\if@LTRmarginpar\begin\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26472 \hskip\columnwidth \hskip\marginparsep
26473 \else
26474 \hskip -\marginparsep \hskip -\marginparwidth
26475 \fi
26476 \box\@marbox \hss\if@RTL\if@LTRmarginpar\end\else\endR\fi\else\if@RTLmarginpar\endR\
26477 \nointerlineskip
26478 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26479 \long\def\@ympar#1{%
26480 \savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26481 \global\setbox\@currbox\copy\@marbox
26482 \@xypar}
26483 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26484 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26485 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26486 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26487 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26488 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26489 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26490 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26491 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26492 \fi}
26493
26494 \newcommand*\@bidi@font@{\@outputpage}{\}
26495
26496 \def\@outputpage{%
26497 \begingroup % the \endgroup is put in by \aftergroup
26498 \let \protect \noexpand
26499 \@resetactivechars
26500 \global\let\@if@newlist\if@newlist
26501 \global\@newlistfalse
26502 \@parboxrestore
26503 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
26504 \bidi@beforeoutputpageshipouthook
26505 \shipout \vbox{%
26506 \set@typeset@protect
26507 \aftergroup \endgroup
26508 \aftergroup \set@typeset@protect
26509 % correct? or just restore by ending
26510 % the group?
26511 \if@specialpage
26512 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26513 \fi
26514 \if@twoside
26515 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot

```



```

26516     \if@RTLmain
26517         \let\@themargin\evensidemargin
26518     \else
26519         \let\@themargin\oddsidemargin
26520     \fi
26521 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26522 \if@RTLmain
26523     \let\@themargin\oddsidemargin
26524 \else
26525     \let\@themargin\evensidemargin
26526 \fi
26527 \fi
26528 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26529 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26530 \else %% not @twoside
26531 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26532 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26533 \fi
26534 \reset@font
26535 \normalsize
26536 \bidi@font@@outputpage
26537 \normalsfcodes
26538 \let\label\@gobble
26539 \let\index\@gobble
26540 \let\glossary\@gobble
26541 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26542 \@begindvi
26543 \vskip \topmargin
26544 \moveright\@themargin \vbox {%
26545     \global\let\bidi@BeforeHeader\@firstofone
26546     \bidi@beforeheaderhook
26547     \setbox\@tempboxa \vbox to\headheight{%
26548         \vfil
26549         \color@hbox
26550         \normalcolor
26551         \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
26552         \color@endbox
26553     }%
26554     \dp\@tempboxa \z@
26555     \box\@tempboxa
26556     \vskip \headsep
26557     \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
26558     \bidi@beforeoutputboxoutputpagehook
26559     \box\@outputbox
26560     \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
26561     \bidi@afteroutputboxoutputpagehook
26562     \global\let\bidi@BeforeFooter\@firstofone
26563     \bidi@beforefooterhook
26564     \baselineskip \footskip
26565     \color@hbox
26566     \normalcolor
26567     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
26568     \color@endbox
26569     \global\let\bidi@AfterFooter\@firstofone

```



```

26570     \bidi@afterfooterhook
26571     }%
26572   }%
26573 \global\let\bidi@AfterOutputPageShipOut\@firstofone
26574 \bidi@afteroutputpageshipouthook
26575 \global\let\if@newlist\@if@newlist
26576 \global \@colht \textheight
26577 \stepcounter{page}%
26578 \let\firstmark\botmark
26579 \global\let\bidi@AtEndOutputPage\@firstofone
26580 \bidi@atendoutputpagehook
26581 }
26582 \long\def\@makecaption#1#2{%
26583   \vskip\abovecaptionskip
26584   \sbox\@tempboxa{#1: #2}%
26585   \ifdim \wd\@tempboxa >\hsize
26586     \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26587   \else
26588     \global \@minipagefalse
26589     \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26590   \fi
26591   \vskip\belowcaptionskip}
26592 \let\bidi@samed@eqno=\eqno
26593 \let\bidi@samed@leqno=\leqno
26594 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@samed@leqno \else \bidi@samed@eqno \fi}
26595 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@samed@eqno \else \bidi@samed@leqno \fi}
26596 \ApplyPatchIfPackageLoadedF{amsmath}{
26597 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26598 }
26599 \input{footnote-xetex-bidi.def}
26600 \if@twocolumn
26601   \let\autofootnoterule\relax
26602   \let\leftfootnoterule\relax
26603   \let\rightfootnoterule\relax
26604   \textwidthfootnoterule
26605 \fi
26606 \if@bidi@csundef{@idxitem}{-}{%
26607 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
26608 }
26609
26610 \ApplyPatchToClassesIfPackageLoadedF{%
26611   book, %
26612   report %
26613 }{flowfram}
26614
26615 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26616
26617 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26618   fleqn, %
26619   leqno%
26620 }[clo]
26621
26622 \ApplyPatchToClasses{%
26623   amsart, %

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26624 amsbook, %
26625 article, %
26626 artikel1, %
26627 artikel2, %
26628 artikel3, %
26629 beamer, %
26630 boek, %
26631 boek3, %
26632 bookest, %
26633 combine, %
26634 extbook, %
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26641 rapport1, %
26642 rapport3, %
26643 refrep, %
26644 scrartcl, %
26645 scrbook, %
26646 screprt %
26647 }
26648
26649 \ApplyPatchToPackages{%
26650 adjmulticol, %
26651 algorithm2e, %
26652 amsmath, %
26653 amstext, %
26654 amsthm, %
26655 arydshln, %
26656 array, %
26657 beamerbaseauxtemplates, %
26658 beamerbaseboxes, %
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26660 beamerbasecompatibility, %
26661 beamerbaseframecomponents, %
26662 beamerbaseframesize, %
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26667 beamerinnerthemecircles, %
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26670 beamerinnerthemeinmargin, %
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26672 beamerinnerthemerectangles, %
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26675 beamerouterthemefocus, %
26676 beamerouterthemeinfolines, %
26677 beamerouterthememetropolis, %

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 26679 beamerouterthemesidebar, %  
 26680 beamerouterthemesplit, %  
 26681 beamerouterthemeshadow, %  
 26682 beamerouterthesmoothbars, %  
 26683 beamerouterthesmoothtree, %  
 26684 beamerouterthemetree, %  
 26685 beamerthemeHannover, %  
 26686 beamerthemeSingapore, %  
 26687 breqn, %  
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 26690 caption3, %  
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 26696 dblfnote, %  
 26697 diagbox, %  
 26698 draftwatermark, %  
 26699 eso-pic, %  
 26700 empheq, %  
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 26728 nicematrix, %  
 26729 ntheorem, %  
 26730 ntheorem-hyper, %  
 26731 overpic, %



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26748 titlesec, %
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26752 tocloft, %
26753 tocstyle, %
26754 todonotes, %
26755 wrapfig, %
26756 xcolor, %
26757 xltextra %
26758 }
26759
26760 \ApplyPatchToFiles{%
26761   pgfcorescopes.code, %
26762   pstricks %
26763 }[tex]
26764
26765 \ApplyPatchToFile{tc-xetex}

```

## 163 File xltextra-xetex-bidi.def

```

26766 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26767 \let\@XeTeX\XeTeX
26768 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26769 \let\@XeLaTeX\XeLaTeX
26770 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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