

# calculatoritems

Insert items of  
classic calculators.

Version 0.1.0 - 11/11/2024

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<https://github.com/cpierquet/calculatoritems>

Classic calculators items or menus :

```
35+E :  
    \CalcItemMenu[model=35+,font=\fontCASIOA]{GRAPH}  
  
90+E:  
    \CalcItemMenu[model=90+,type=bmenu,font=\fontCASIOB]{MAT}  
  
MATH+ :  
    \CalcItemMenu[model=math+,font=\fontCASIOB,rightsymb=>]{arithmetic}  
  
NWKS :  
    \CalcItemMenu[model=nwks,type=bmenu,rightsymb=\nwkstri,len=12,font\fontNWKS]{X predict}  
  
TI :  
    \CalcItemMenu[model=ti,type=itemsel,font=\small\fontTI]{6\$fmin()}
```

Classic calculators items or menus :

- 35+E : GRAPH
- 90+E : MAT
- MATH+ : arithmetic >
- NWKS : X predict ►
- TI : 6:fmin()
- HP : 4 Quadratic Explorer >

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## 1 History & Future

0.1.0: Initial version todo : usage of nodepthtext package ?

## 2 Introduction

### 2.1 Loading, useful packages

In order to load `calculatoritems`, simply use:

```
\usepackage{calculatoritems}
```

Loaded packages are `xstring`, `calc`, `simplekv`, `tcolorbox` and `circledtext`.

Loaded libraries are `calc` and `skins`.

If `amssymb` doesn't need to be loaded (useful for int. macro), just add `[noamssymb]` to the loading.

```
%w/o amssymb loading  
\usepackage[noamssymb]{calculatoritems}
```

### 2.2 Fonts

The package define shortcuts for fonts, depending on the engine, an option `[xelua]` can be used.

```
%normal loading, for classic engines (pdflatex/latex)  
\usepackage{calculatoritems}
```

```
%special loading, for recent engines (xelatex/lualatex)  
\usepackage[xelua]{calculatoritems}
```

Available fonts are given by followings macros (best fonts are `teletype`).

```
%normal loading, for classic engines (pdflatex/latex)  
\newcommand\fontNWKS{  
  \fontencoding{T1}\fontfamily{SourceCodePro-TLF}\selectfont %nwks  
}  
\newcommand\fontCASIOA{  
  \fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont %casio35  
}  
\newcommand\fontCASIOB{  
  \fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont %casio90 & math+  
}  
\newcommand\fontTI{  
  \fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont %ti  
}  
\newcommand\fontHP{  
  \fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont %hp  
}
```

```
%special loading, for recent engines (xelatex/lualatex) with fontspec  
\newfontfamily\fontNWKS{SourceCodePro-Medium} %numworks  
\newfontfamily\fontCASIOA{AnonymousPro} %casio35  
\newfontfamily\fontCASIOB{AlegreyaSans} %casio90 & math+  
\newfontfamily\fontTI{AnonymousPro} %ti  
\newfontfamily\fontHP{AlegreyaSans} %casio90 & math+
```

## 2.3 Special macros

Special macros are available, to match with some custom *symbols*.

```
\nwkstri \qquad \tidots \qquad \casiodots
```



## 3 Usage

### 3.1 Global usage

The purpose of the main macro is to insert, *inline*, a small tcbox to display *items* as for classic calculators.

Size and aspect are fixed, in order to *match* the original rendering.

### 3.2 The macro

The main macro is `\CalcItemMenu`.

```
\CalcItemMenu[keys]{content}
```

Available keys are :

- `model` : specify the model (empty by default) ;
- `type` : type of item, according to the specified model (empty by default) ;
- `fsep` : length for modifying the sep between rules and content (1pt by default) ;
- `font` : font for the content (\bfseries\ttfamily by default) ;
- `len` : internal key for modifying length of content, for same models/types (auto by default) ;
- `bg` : bg color or the *external background*, if necessary (white by default) ;
- `rightsymb` : right symbol, if necessary (empty by default).

## 4 Samples

### 4.1 Generic model

This is the default rendering.

Available items are :

- `[type={}]` := white menu (default value)
- `[type=black]` := black menu

`MyItem`

`MyItem`

```
%  
\CalcItemMenu{MyItem}  
\CalcItemMenu[type=black]{MyItem}
```

## 4.2 CASIO 35+ or fx-9860GIII

For this model, the key is `[model=35+]`, and font `[font=\fontCASIOA]` can be used.  
By default, there's 4 *characters* in the box, so if there's more, a *h-stretch* is applied.  
Available items are :

- `[type={}]` := white menu (default value) GRPH
- `[type=bmenu]` := dark menu GRPH
- `[type=item]` := item menu GRPH
- `[type=itemsel]` := item selected (19 chars) with optional right symbol TEST LONG ITEM

```
\CalcItemMenu[model=35+,font=\small\fontCASIOA]{GRPH}
\CalcItemMenu[model=35+,type=bmenu,font=\small\fontCASIOA]{GRPH}
\CalcItemMenu[model=35+,type=item,font=\small\fontCASIOA]{GRPH}
\CalcItemMenu[model=35+,type=itemsel,font=\small\fontCASIOA]{TEST LONG ITEM}
```

## 4.3 CASIO 90+ or fx-CG50

For this model, the key is `[model=90+]`, and font `[font=\fontCASIOB]` can be used.  
By default, there's 5 *characters* in the box, so if there's more, a *h-stretch* is applied.  
Available items are :

- `[type={}]` := white menu (default value) GRAPH
- `[type=bmenu]` := black menu GRAPH
- `[type=item]` := item menu GRAPH
- `[type=itemsel]` := item selected (22 chars) with optional right symbol TEST LONG ITEM

```
\CalcItemMenu[model=90+,font=\small\fontCASIOB]{GRAPH}
\CalcItemMenu[model=90+,type=bmenu,font=\small\fontCASIOB]{GRAPH}
\CalcItemMenu[model=90+,type=item,font=\small\fontCASIOB]{GRAPH}
\CalcItemMenu[model=90+,type=itemsel,font=\small\fontCASIOB]{TEST LONG ITEM}
```

## 4.4 CASIO MATH+

For this model, the key is `[model=math+]` (20 chars), and font `[font=\fontCASIOB]` can be used.  
Only one item is available, due to *new global usage*, but `rightsymb` can be used.

- `[rightsymb={}]` (default) MyItem
- `[rightsymb=>]` MyItem >
- `[rightsymb=\casiodots]` MyItem ..

```
\CalcItemMenu[model=math+,font=\small\fontCASIOB]{MyItem}
\CalcItemMenu[model=math+,font=\small\fontCASIOB,rightsymb=>]{MyItem}
\CalcItemMenu[model=math+,font=\small\fontCASIOB,rightsymb=\casiodots]{MyItem}
```

## 4.5 NUMWORKS

For this model, the key is `[model=nwks]`, and font `[font=\fontNWKS]` can be used.  
Available items are :

- `[type={}]` := white menu (default) MyItem
- `[type=gmenu]` := gray menu MyItem
- `[type=bmenu]` := black menu (22 chars, with rightsymb) MyItem ►

```
\CalcItemMenu[model=nwks,font=\small\fontNWKS]{MyItem}
\CalcItemMenu[model=nwks,type=gmenu,font=\small\fontNWKS]{MyItem}
\CalcItemMenu[model=nwks,type=bmenu,font=\small\fontNWKS,rightsymb=\nwkstri]{MyItem}
```

## 4.6 TI

For this model, the key is `[model=ti]`, and font `[font=\fontTI]` can be used.  
Available items are :

- `[type={}]` := black menu (default) MyItem
- `[type=menu]` := default menu MyItem
- `[type=itemsel]` := selected item, with number 1: MyItem...

```
\CalcItemMenu[model=ti,font=\small\fontTI]{MyItem}
\CalcItemMenu[model=ti,type=menu,font=\small\fontTI]{MyItem}
\CalcItemMenu[model=ti,type=itemsel,font=\small\fontTI]{1${MyItem\tidots}}
```

## 4.7 HP Prime

For this model, the key is `[model=hp]`, and font `[font=\fontHP]` can be used.  
By default, there's 5 characters in the box, so if there's more, a *h-stretch* is applied.  
Available items are :

- `[type={}]` := semi-rounded (default value) Catlg
- `[type=ritem]` := rounded OK
- `[type=item]` := item with optional right symbol 1 Extremum >
- `[type=itemsel]` := item selected (21 chars) with optional right symbol Quadratic Explorer >

```
\CalcItemMenu[model=hp,font=\small\fontHP]{Catlg}
\CalcItemMenu[model=hp,type=ritem,font=\small\fontHP]{OK}
\CalcItemMenu[model=hp,type=item,font=\small\fontHP,rightsymb={~>}]{1$Extremum}
\CalcItemMenu[model=hp,type=itemsel,font=\small\fontHP,rightsymb=>]{4$Quadratic Explorer}
```

## 5 The code

```
% Author      : C. Pierquet
% licence    : Released under the LaTeX Project Public License v1.3c or later, see http://www.latex-project.org/lppl.txt

\NeedsTeXFormat{LaTeXe}
\ProvidesPackage{calculatoritems}[2024/11/11 0.1.0 Menus from classic calculators]

%====HISTORIQUE
% v 0.1.0 Initial version

%====OPTION
\newif\ifelua \xeluafalse
\newif\ifeamssymb \amssymbtrue
\DeclareOption{xelua}{\xeluatrue}
\DeclareOption{noamssymb}{\amssymbfalse}
\DeclareOption{*}{}
\ProcessOptions\relax

%====BASE
\ifeamssymb
  \RequirePackage{amssymb}
  \newcommand\nwkstri{\footnotesize\textrmcolor{orange}{$\blacktriangleright$}}
\fi
\RequirePackage{xstring}
\RequirePackage{calc}
\RequirePackage{simplekv}
\RequirePackage{tcolorbox}
\RequirePackage{circledtext}
\usetikzlibrary{calc}
\ tcbuse{skins}

%====DIMS & Useful
\newlength\calcsimmenussep
\setlength\calcsimmenussep{1pt}
\newlength\calcsimmenusmenu tc
\newlength\calcsimmenusitemtc
\newlength\calcsimmenusdepth
\newcommand\tidots{\scalebox{0.44}[0.55]{...}}
\newcommand\casiodots{\circledtext[resize=real,width=0.75em]\cdots}

%====TCSTYLES
\tcbset{casiotc/.style={%
  enhanced,fontupper=\calcsimmenusfont,nobeforeafter,
  box align=base,boxsep=\calcsimmenussep,
  boxrule=0.8pt,left=0pt,right=0pt,top=0pt,
  bottom=\dimexpr1pt-\calcsimmenusdepth\relax,no borderline
}}
\tcbset{casiotcmenuoir/.style={%
  width=\calcsimmenusmenu tc,colframe=black,colback=black,
  colupper=white,sharp corners,rounded corners=southeast,
  arc=3pt,arc is angular,add to width=1pt
}}
\tcbset{casiotcmenublanc/.style={%
  enhanced,frame hidden,width=\calcsimmenusmenu tc,
  colframe=black,colback=white,colupper=black,
  sharp corners,add to width=1pt,
  borderline north={0.75pt}{0pt}{black},
  borderline west={0.75pt}{0pt}{black}
}}
\tcbset{casiotcitemnoir/.style={%
  width=\calcsimmenusmenu tc,colframe=black,
  colback=black,colupper=white,sharp corners,add to width=1pt
}}
\tcbset{casiotcitemsel/.style={%
  width=\calcsimmenusitemtc,sharp corners,
  colframe=black,colback=black,colupper=white
}}
\tcbset{casioqd/.style={%
  fontupper=\calcsimmenusfont,nobeforeafter,
  box align=base,boxsep=\calcsimmenussep,
  boxrule=0.8pt,left=0pt,right=0pt,top=0pt,
  bottom=\dimexpr1pt-\calcsimmenusdepth\relax,
}}
\tcbset{casioqdmenuoir/.style={%
  enhanced,width=\calcsimmenusmenu tc,colframe=black,
  colback=black,colupper=white,arc=1pt,add to width=2pt
}}
\tcbset{casioqdmenublanc/.style={%
  width=\calcsimmenusmenu tc,colframe=black,colback=white,
  colupper=black,rounded corners,arc=1pt,add to width=2pt
}}
\tcbset{casioqditemnoir/.style={%
  width=\calcsimmenusmenu tc,colframe=black,colback=black,
  colupper=white,sharp corners,add to width=2pt
}}
```

```

\tcbset{casioqditemsel/.style={%
    width=\calcsimmenusitemtc,sharp corners,colframe=black,%
    colback=black,colupper=white,sharp corners
}
}

\tcbset{vignettetenunwks/.style={%
    top=\dimexpr0.45pt+0.5\calcsimmenusfsep\relax,bottom=\dimexpr1pt-\calcsimmenusdepth\relax,%
    left=2pt,right=2pt,fontupper=\calcsimmenusfont,nobeforeafter,%
    box align=base,boxrule=0.45pt,boxsep=0.5\calcsimmenusfsep,sharp corners=all
}
}

\tcbset{vignettetenenui/.style={%
    size=tight,boxrule=0.45pt,fontupper=\calcsimmenusfont,%
    nobeforeafter,left=0.45pt,right=0.45pt,top=0.15pt,bottom=0.15pt,box align=base
}
}

\tcbset{vignettetenenuhp/.style={%
    enhanced,fontupper=\calcsimmenusfont,nobeforeafter,%
    box align=base,boxsep=\calcsimmenusfsep,%
    boxrule=0.8pt,left=0pt,right=0pt,top=0pt,%
    bottom=\dimexpr1pt-\calcsimmenusdepth\relax,
}
}

\tcbset{vignettetenuhpnorth/.style={%
    width=\calcsimmenusmenutc,colupper=white,colback=darkgray!90,colframe=darkgray,%
    sharp corners=north,add to width=2pt
}
}

\tcbset{vignettetenuhpround/.style={%
    width=\calcsimmenusmenutc,colupper=white,colback=darkgray!90,colframe=darkgray,%
    rounded corners,arc=1pt,add to width=2pt
}
}

\tcbset{vignettetenuhpitemsel/.style={%
    width=\calcsimmenusitemtc,sharp corners,colframe=cyan!15,%
    colback=cyan!15,colupper=black,sharp corners
}
}

\tcbset{vignettetenuhpitem/.style={%
    sharp corners,colframe=cyan!15,colback=cyan!15,colupper=black,sharp corners
}
}

%====SPECIAL
\if@xela
\newfontfamily\fontNWKS{SourceCodePro-Medium} %numworks
\newfontfamily\fontCASIOA{AnonymousPro} %casio35
\newfontfamily\fontCASIOB{AlegreyaSans} %casio90
\newfontfamily\fontTI{AnonymousPro} %ti
\newfontfamily\fontHP{AlegreyaSans} %ti
\else
\newcommand\fontNWKS{\fontencoding{T1}\fontfamily{SourceCodePro-TLF}\selectfont} %nwks
\newcommand\fontCASIOA{\fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont} %casio35
\newcommand\fontCASIOB{\fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont} %casio90
\newcommand\fontTI{\fontencoding{T1}\fontfamily{AnonymousPro}\fontseries{sb}\selectfont} %ti
\newcommand\fontHP{\fontencoding{T1}\fontfamily{AlegreyaSans-TLF}\fontseries{sb}\selectfont} %casio90
\fi

%====KEYS
\defKV[calcsimmenus]{%
    model=\def\calcsimmenusmodel{\#1},%
    type=\def\calcsimmenustype{\#1},%
    fsep=\setlength\calcsimmenusfsep{\#1},%
    font=\def\calcsimmenusfont{\#1},%
    len=\def\calcsimmenuslen{\#1},%
    bg=\def\calcsimmenusbg{\#1},%
    rightsymb=\def\calcsimmenusr symb{\#1}
}
\setKVdefault[calcsimmenus]{%
    model={},%
    type={},%
    fsep=0.5pt,%
    font=(\bfseries\ttfamily),%
    len=auto,%
    bg=white,%
    rightsymb={}
}

\NewDocumentCommand\CalcItemMenu{ O{} m }{%
    \restoreKV[calcsimmenus]%
    \setKV[calcsimmenus]{\#1}%
    \IfEq{\calcsimmenusmodel}{\relax}{%
        \%
        \IfEq{\calcsimmenustype}{\relax}{%
            white bg
        }{%
            {\setlength{\fboxsep}{\calcsimmenusfsep}\fcolorbox{black}{white}{\vphantom{qH}\calcsimmenusfont\#2}}%
        }%
        \%
        \IfEq{\calcsimmenustype}{black}{%
            black bg
        }{%
            {\setlength{\fboxsep}{\calcsimmenusfsep}\fcolorbox{black}{black}{\vphantom{qH}\calcsimmenusfont\textcolor{white}{\#2}}}}%
        \%
    }%
}

```

```

}%%
}%
}%
\IfEq{\calcsimmenusmodel}{35+}%
{%
  \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXX}}%
  \addtolength{\calcsimmenusmenutc}{2pt}%
  \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXX}}%
  \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
  \IfEq{\calcsimmenuslen}{auto}%
  {%
    \StrLen{#2}[\calcsimmenusbchar]%
    \xdef\calcsimmenushscale{\fpeval{min(4/(\calcsimmenusbchar),1)}}%
    \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
  }%
  {%
    \xdef\calcsimmenushscale{\fpeval{min(4/(\calcsimmenuslen),1)}}%
    \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
  }%
  \IfEq{\calcsimmenustype}{}%white menu
  {%
    {\tcbbox[tcbox width=minimum center,casiotc,casiotcmenublanc]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
  }%
  {%
  \IfEq{\calcsimmenustype}{bmenu}%black menu
  {%
    {\tcbbox[tcbox width=minimum center,casiotc,casiotcmenuoir]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
  }%
  {%
  \IfEq{\calcsimmenustype}{item}%
  {%
    {\tcbbox[tcbox width=minimum center,casiotc,casiotcitemnoir]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
  }%
  {%
  \IfEq{\calcsimmenustype}{itemsel}%
  {%
    {\tcbbox[tcbox width=minimum left,casiotc,casiotcitemsel]{\makebox[\calcsimmenusitemtc]{\vphantom{qH}{#2}\hfill{\calcsimmenusr symb}}}}%
  }%
  {%
  }%
  }%
  }%
  {%
  }%
  \IfEq{\calcsimmenusmodel}{90+}%
  {%
    \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXX}}%
    \addtolength{\calcsimmenusmenutc}{2pt}%
    \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXX}}%
    \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
    \IfEq{\calcsimmenuslen}{auto}%
    {%
      \StrLen{#2}[\calcsimmenusbchar]%
      \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenusbchar),1)}}%
      \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
    }%
    {%
      \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenuslen),1)}}%
      \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
    }%
    \IfEq{\calcsimmenustype}{}%white menu
    {%
      {\tcbbox[tcbox width=minimum center,casioqd,casioqdmenublanc]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
    }%
    {%
    \IfEq{\calcsimmenustype}{bmenu}%black menu
    {%
      {\tcbbox[tcbox width=minimum center,casioqd,casioqdmenuoir,overlay={\path[fill=\calcsimmenusbg]({frame.south east} + (0.1pt,-0.1pt)} -- ++ (0pt,3.2pt) -- ++ (-3.2pt,-3.2pt) -- cycle;}{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
    }%
    {%
    \IfEq{\calcsimmenustype}{item}%
    {%
      {\tcbbox[tcbox width=minimum center,casioqd,casioqditemnoir]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
    }%
    {%
    \IfEq{\calcsimmenustype}{itemsel}%
    {%
      {\tcbbox[tcbox width=minimum left,casioqd,casioqditemsel]{\makebox[\calcsimmenusitemtc]{\vphantom{qH}{#2}\hfill{\calcsimmenusr symb}}}}%
    }%
    {%
    }%
    }%
    }%
    {%
    }%
    \IfEq{\calcsimmenusmodel}{math+}%
    {%
      \settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXX}}%
      \addtolength{\calcsimmenusmenutc}{2pt}%
      \settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXX}}%
      \settodepth{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
      \IfEq{\calcsimmenuslen}{auto}%
      {%
        \StrLen{#2}[\calcsimmenusbchar]%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenusbchar),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
      {%
        \xdef\calcsimmenushscale{\fpeval{min(5/(\calcsimmenuslen),1)}}%
        \xdef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
      }%
      \IfEq{\calcsimmenustype}{}%white menu
      {%
      }%
    }%
  }%
}

```

```

    {\tcbbox[tcbox width=minimum left,casioqd,casioqditemnoir]{\makebox[\calcsimmenusitemtc]{\vphantom{qH}\hfill{\calcsimmenusr symb}}}}%
}%
}%
}%
}%
}%
\IfEq{\calcsimmenusmodel}{nwks}%
{%
\setlength{\calcsimmenusdepth}{0.375pt}%
\IfEq{\calcsimmenustype}{white menu}%
{%
{\tcbbox[vignettetenunwks,colframe=gray,colupper=darkgray,colback=white]{\vphantom{qH}\scalebox{0.85}[0.95]{#2}}}%
}%
}%
\IfEq{\calcsimmenustype}{gmenu}%
{gray menu}%
{%
{\tcbbox[vignettetenunwks,colframe=lightgray!50,colupper=black,colback=lightgray!50]{\vphantom{qH}\scalebox{0.85}[0.95]{#2}}}%
}%
}%
\IfEq{\calcsimmenustype}{bmenu}%
{dark menu}%
{%
\edef\tmplengthmenunwks{}%
\IfEq{\calcsimmenuslen}{auto}%
{%
\foreach \i in {1,...,22}{\edef\tmplengthmenunwks{X\tmplengthmenunwks}}%
}%
\foreach \i in {1,...,\calcsimmenuslen}{\edef\tmplengthmenunwks{X\tmplengthmenunwks}}%
}%
\settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont\tmplengthmenunwks}}%
{\tcbbox[width=\calcsimmenusitemtc,tcbox width=minimum left,vignettetenunwks,colframe=gray,colupper=black,colback=lightgray!75]{\vphantom{qH}\scalebox{0.85}[0.95]{#2}\hfill{\calcsimmenusr symb}}}}%
}%
}%
}%
\IfEq{\calcsimmenusmodel}{ti}%
{%
\IfEq{\calcsimmenustype}{black menu}%
{%
{\tcbbox[vignettetenuti,colback=black,colframe=black,colupper=white]{\vphantom{qH}\scalebox{0.9}{[1]{#2}}}}%
}%
}%
\IfEq{\calcsimmenustype}{menu}%
{menu sel}%
{%
{\tcbbox[vignettetenuti,colback=white,colframe=black,colupper=black]{\vphantom{[A]/Fiy}\scalebox{0.9}{[1]{#2}}}}%
}%
\IfEq{\calcsimmenustype}{itemsel}%
{item sel}%
{%
\StrCut{#2}{}{\calcsimmenusb}{\calcsimmenuslab}%
{\tcbbox[vignettetenuti,colback=black,colframe=black,colupper=white]{\vphantom{[A]/Fiy}\scalebox{0.9}{[1]{\calcsimmenusb}}}}%
\hspace*{-0.225pt}%
{\tcbbox[vignettetenuti,colback=white,colframe=black,colupper=black]{\vphantom{[A]/Fiy}\scalebox{0.9}{[1]{\calcsimmenuslab}}}}%
}%
}%
}%
}%
\IfEq{\calcsimmenusmodel}{hp}%
{%
\settowidth{\calcsimmenusmenutc}{\hbox{\calcsimmenusfont XXXXX}}%
\addtolength{\calcsimmenusmenutc}{2pt}%
\settowidth{\calcsimmenusitemtc}{\hbox{\calcsimmenusfont XXXXXXXXXXXXXXXXXXXX}}%
\settoheight{\calcsimmenusdepth}{\hbox{\calcsimmenusfont gH}}%
\IfEq{\calcsimmenuslen}{auto}%
{%
\StrLen{#2}{\calcsimmenusbchar}%
\edef\calcsimmenushscale{\fpeval{\min(5/(\calcsimmenusbchar),1)}}%
\edef\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
}%
\def\calcsimmenushscale{\fpeval{\min(5/(\calcsimmenuslen),1)}}%
\def\calcsimmenusvscale{\fpeval{0.95*\calcsimmenushscale}}%
}%
\IfEq{\calcsimmenustype}{bottom rounded}%
{%
{\tcbbox[tcbox width=minimum center,vignettetenuhp,vignettetenuhpnorth]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
}%
}%
\IfEq{\calcsimmenustype}{ritem}%
{rounded item}%
{%
{\tcbbox[tcbox width=minimum center,vignettetenuhp,vignettetenuhpround]{\vphantom{qH}\scalebox{\calcsimmenushscale}{\calcsimmenusvscale}{#2}}}%
}%
\IfEq{\calcsimmenustype}{item}%
{item}%
{%
\StrCut{#2}{}{\calcsimmenusb}{\calcsimmenuslab}%
{\tcbbox[vignettetenuhp,vignettetenuhp,vignettetenuhpitem]{\vphantom{qH}\raisebox{0.75\calcsimmenusdepth}{\scalebox{0.66}{[0.66]{\calcsimmenusb}}},{\calcsimmenuslab}{\calcsimmenusr symb}}}}%
}%
}%
\IfEq{\calcsimmenustype}{itemsel}%
{item}%
{%
\StrCut{#2}{}{\calcsimmenusb}{\calcsimmenuslab}%
}

```

```
{%
\begin{tcbbox}[tcbox width=minimum left,vignette menu up,vignette menu up items sel]{%
\makebox[\calcsimmenus item tc]{%
\vphantom{qH}\raisebox{0.75\calcsimmenus depth}{\scalebox{0.66}{[0.66](\calcsimmenus nb)}},(\calcsimmenus lab)\hfill(\calcsimmenus rsymb)}%
}%
}%
}%
}%
}%
}
\end{input}
```