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http://www.ctan.org/pkg/menukeys

 $\mathbf{m} \mathbf{macros} \cdot \mathbf{latex} \cdot \mathbf{contrib} \cdot \mathbf{menukeys}$

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Abstract

This package is build to format menu sequences, paths and keystrokes.

You're welcome to send me feedback, questions, bug reports and feature request. If you like to support this package – especially improving or proof-reading the manual – send me an e-mail, please.

Many thanks to Ahmed Musa, who provided the list parsing code at http://tex.stackexchange.com/a/44989/4918.

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1 Introduction

The menukeys package is mainly designed to parse and print sequences of software menus, folders and files or keystrokes. The most predefined styles use the power of $TikZ^1$ to format the output

For example if you want to tell the reader of a manual how to set the ruler unit you may type

To set the unit of the rulers go to \menu{Extras > Settings > Rulers} and choose between millimetres, inches and pixels. The short cut to view the rulers is \keys{cmd + R}. Pressing these keys again will hide the rulers.

The standard path for saving your document is \directory{Macintosh HD/Users/Your Name/Documents} but you can change it at \menu{Extras > Settings > Saving} by clicking \menu{Change save path}.

and get this:

To set the unit of the rulers go to Extras Settings Rulers and choose between millimetres, inches and pixels. The short cut to view the rulers is cmd + R. Pressing these keys again will hide the rulers.

The standard path for saving your document is Macintosh HD > Users > Your Name > Documents but you can change it at Extras > Settings > Saving by clicking Change save path.

The package is loaded as usual via

\usepackage{menukeys}

2 Installation

To install menukeys manually run

```
latex menukeys.ins
```

and copy menukeys.sty to a path where LATEX can find it. To typeset this manual run

```
pdflatex menukeys.dtx
makeindex -s gglo.ist -o menukeys.gls menukeys.glo
makeindex -s gind.ist -o menukeys.ind menukeys.idx
pdflatex menukeys.dtx
pdflatex menukeys.dtx
```

See http://www.ctan.org/pkg/pgf.

3 Package options

These are the possible options:

definemenumacros: Most of menukeys' macros should not conflict with other packages² but the predefined menu macros should be short and easy to read commands, which means that \menu{A,B,C} is preferred against \printmenusequence{A,B,C}. For that it's not unlikely that these conflict with other packages. To prevent this you cant tell menukeys to not define them by calling the option definemenumacros=false. The default value is true.

If you do so you have to define your own menu macros, see section 4.4 for details.

definekeys (opt.) definekeys: Equal to definemenumacros for the key macros. The default value is true.

mackeys (opt.) mackeys: This option allows you to decide wether the mac keys are shown as text (mackeys=text) or symbols (mackeys=symbols). The default value is symbols

os (opt.) os: You can specify the OS by saying os=mac or os=win. This will cause some key macros to be rendered different. The default value is mac.

4 Usage

4.1 Basics

\menu \directory \keys

definemenumacros (opt.)

menukeys comes with three "menu macros" that parse and print lists. We have $\mbox{\mbox{menu}{\langle menu \ sequence \rangle}}$, with > as default input list separator, $\mbox{\mbox{directory}{\langle path \ and \ files \rangle}}$ with / as default separator and $\mbox{\mbox{\mbox{keys}{\langle keystrokes \rangle}}}$ with + as default separator. You've seen examples for all of them in section 1.

These macros have also an optional argument to set the input list separator. E.g. if you want to put in your menus with , instead of > you can say $\mbox{\mbox{\mbox{menu}[,]}} {\langle menu \ sequence \rangle}.^3$

The possible input separators are /, =, *, +, ,, ;, :, -, >, < and bslash (to use \ as separator). You can hide a separator from the parser by putting a part of the sequence in braces. Spaces around the separator will be ignored, i.e. \keys{\ctrl+C} equals \keys{\ctrl + C}.

Example \menu[,]{Extras,Settings,{Units, rulers and origin}} gives Extras Settings Units, rulers and origin

 $^{^2}$ If you find a conflict send an e-mail.

³ If you want to change the input separator globally it's recommended to renew the menu macro as described in section 4.4.

4.2 Styles

menukeys defines several "styles" that determine the output format of a menu macro. There are some predefined styles and others can be created by the user.

4.2.1 Predefined styles

Name: menus

File Extras Preferences Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way File Extras Preferences the style which name is menus prints the list.

Name: roundedmenus

File Extras Preferences Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way File Extras Preferences the style which name is roundedmenus prints the list.

Name: angularmenus

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way File Extras Preferences the style which name is angularmenus prints the list.

Name: roundedkeys

$$Ctrl + Alt + Q$$
 Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way $\boxed{Ctrl} + \boxed{Alt} + \boxed{Q}$ the style which name is roundedkeys prints the list.

Name: shadowedroundedkeys

$$[Ctrl]+[Alt]+[Q]$$
 Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way Ctrl + Alt + Q the style which name is shadowedroundedkeys prints the list.

Name: angularkeys

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way $\boxed{Ctrl} + \boxed{Alt} + \boxed{Q}$ the style which name is angularkeys prints the list.

Name: shadowedangularkeys

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way Ctrl + Alt + Q the style which name is shadowedangularkeys prints the list.

Name: typewriterkeys

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way (1) + (1) the style which name is typewriterkeys prints the list.

Name: paths

Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way C: *User * Folder * MyFile.tex the style which name is paths prints the list.

Name: pathswithfolder

□ Single

Name: pathswithblackfolder

■ Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way $C: Vser \cdot Folder \cdot MyFile.tex$ the style which name is pathswithblackfolder prints the list.

The following three styles allow paths elements to be hyphened, but they insert only a line break without a hyphen dash. Note that they only work with T1 and OT1 encoding, at least I tested only these ones.

Name: hyphenatepaths

C: Database User ALongUserNameHere ALongerFolderNameAtThisPlace My File.tex Single

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way C: Database User ALongUserNameHere ALongerFolder NameAtThisPlace MyFile.tex the style which name is hyphenatepaths prints the list.

Name: hyphenatepathswithfolder

☐ C: Database Vser ALongUserNameHere ALongerFolderNameAtThisPlace MyFile.tex ☐ Single

Name: hyphenatepathswithblackfolder

This is some more or less blind text, to demonstrate how the sequence looks in text. This is way $\mathbf{c}: \mathbf{Database} \cdot \mathbf{User} \cdot \mathbf{ALongUserNameHere} \cdot \mathbf{ALongerFold}$ erNameAtThisPlace \text{MyFile.tex} the style which name is hyphenatepaths with blackfolder prints the list.

\drawtikzfolder

Hint The folder is drawn with the command $\drawtikzfolder[\langle frontcolor \rangle]$ which is part of menukeys.

4.2.2 Declaring styles

\newmenustylesimple

The simplest way to define a new style is to use \newmenustylesimple. It has six arguments: \newmenustylesimple\(*\)\{\(\lame\\)\}\[\lambda re\)\]\[\lambda style\rangle\]\[\lambda re\]\]\[\lambda style\rangle\]\[\lambda style\rangle\]\[\lambda re\]\]

 ${f name}$ is the name of the new style. It must follow the specifications of ${f T}_{\hbox{\it E}}{f X}$ control sequences, which means it must contain only letters and no numbers.

pre is the code which is executed before a menu macro.

style is the style for the first list element. It has to be a TikZ-style which is applied to a node, e.g. draw, blue.

sep is the code executed between the lists elements, e.g. some space or a symbol.

post is the code which is executed after a menu macro.

theme is a color theme (see section 4.3).

Example Let us consider we want a list that prints a frame around it's elements and seperates them by a star. We can use

\newmenustylesimple{mystyle}{draw}[\$\ast\$]{mycolors}

\newmenustyle

The more advanced command is \newmenustyle. It has nine arguments: \newmenustyle\(\disp\) \{\langle\} \[\langle\] \{\langle\} \[\langle\] \{\langle\} \[\langle\] \{\langle\} \[\langle\] \{\langle\} \[\langle\] \{\langle\} \[\langle\] \[\langle\]

name is the name of the new style. It must follow the specifications of T_EX control sequences, which means it must contain only letters and no numbers.

pre is the code which is executed before a menu macro.

first is the style for the first list element. It has to be a TikZ-style which is applied to a node, e.g. draw, blue.

sep is the code executed between the lists elements, e.g. some space or a symbol.

 \mathbf{mid} is the style for all elements between the first and the last one. It has to be a TikZ-sytle.

last is the style for the last list element. It has to be a TikZ-sytle.

single this style is used if the list contains only one element. It has to be a TikZ-sytle.

post is the code which is executed after a menu macro.

theme is a color theme (see section 4.3).

Example We can extend the previous example and desire that the first and the last element became red, and a single element should have a dashed frame. Furthermore the menu sequence should be preceded and followed by a bullet point:

```
\newmenustyle{mystyle}[$\bullet$]{draw,red}[$\ast$]%
{draw}{draw,red}{draw,dashed}[$\bullet$]
```

\CurrentMenuElement

If the TikZ node system doesn't fit you needs there are the **starred versions**: Use them and the arguments $\langle first \rangle$, $\langle mid \rangle$, $\langle last \rangle$, $\langle single \rangle$ can be any LATEX code. To access the current list element use \CurrentMenuElement.

Example consider that we want all menu elements simple be fat and not drawn with a TikZ node. The separator should be the star again:

\newmenustylesimple*{mystyle}{\textbf{\CurrentMenuElement}}[\$\ast\$]

\usemenucolor

If you want to make your own style you must take care of using the color theme. To access a color of the currently applied theme while defining a style use $\usemenucolor{\langle element \rangle}$ (See section 4.3 for details about possible elements).

4.2.3 Copying styles

\copymenustyle

To copy an existing style to a new style us \copymenustyle $\{\langle copy\rangle\}\{\langle original\rangle\}$.

Example To copy the definition of mystyle to mycopy use

\copymenustyle{mycopy}{mystyle}

4.2.4 Changing styles

\changemenuelement

The simplest change we can imagine is to change a single element or the color theme of an existing style. For the first case there is $\changemenuelement * \{\langle name \rangle\} \}$ { $\langle element \rangle$ } { $\langle element \rangle$ }, where the starred version works like the one of \newmenustyle does.

Example to change the single element of mystyle frome dashed to solid use the following code. You may save the original style by copying it as described above.

\changemenuelement{mystyle}{single}{draw}

\changemenucolortheme

To satisfy the second case use \changemenucolortheme $\{\langle name \rangle\} \{\langle color theme \rangle\}$.

Example To change the color theme of mystyle to myothercolors call

\changemenucolortheme{mystyle}{myothercolors}

\renewmenustylesimple \providemenustylesimple \renewmenustyle \providemenustyle The next level is redefing a style. This package provides the following macros the work like their LATEX-paragons and have the same arguments as the above described macros: \renewmenustylesimple, \providemenustylesimple, \renewmenustyle and \providemenustyle.

4.3 Color themes

To make the colors of a style became changeable without touching the style itself, menukeys uses "color themes". Every color theme must contain three color definitions that can be used to draw a node background, a node frame and a text color.

4.3.1 Predefined themes

There are two predefined color themes

Name: gray Background Border ■ Text ■

Name: blacknwhite Background Border ■ Text ■

4.3.2 Create a theme

\newmenucolortheme

To create a new theme use \newmenucolortheme. It uses the following five arguments: \newmenucolortheme $\{\langle name \rangle\}\{\langle model \rangle\}\{\langle br \rangle\}\{\langle txt \rangle\}$

name is the name of the theme and must contain only letters.

model is the xcolor color model which is used to define a color, e.g. named, rgb, cmyk, ...

bg is the color definition for the node background.

br is the color definition for the **node** border.

txt is the color definition for the node's text.

Example To create a theme called mycolors we can say

\newmenucolortheme{mycolors}{named}{red}{green}{blue}

4.3.3 Copy a theme

\copymenucolortheme

To copy the definitions of one theme to another, use $\operatorname{copymenucolortheme} \{\langle copy \rangle\} \{\langle original \rangle\}$.

Example To copy the colors of mycolors to copycolors type

\copymenucolortheme{copycolors}{mycolors}

4.3.4 Change a theme

\changemenucolor

If you want to change the color of a theme's element use $\color{\langle name \rangle}$ ${\langle element \rangle}$ ${\langle model \rangle}$ ${\langle color \ definition \rangle}$, where name is the theme's name and ${\langle element \rangle}$ is bg, br, or txt.

Example Let's change the text color of mycolors:

\changemenucolor{mycolors}{txt}{named}{gray}

\renewmenucolortheme

To redefine a complete theme use \renewmenucolortheme. It works with the same arguments as \newmenucolortheme.

4.4 Menu macros

The "menu marcos" take a list seperated by a special symbol to print it with a menu style.

4.4.1 Predefined menu macros

See section 4.1.

4.4.2 Defining or changing menu macros

\newmenumacro

To define a new menu macro call $\newmenumacro\{\langle macro \rangle\}\ [\langle input sep \rangle] \{\langle style \rangle\}.$

name is a LATEX control sequence name.

input sep is the default separator used in the input list (see section 4.1 for a list of valid separators).

If you don't give it the package's default (,) is used.

style is a menu style.

This wil give you a macro like $\langle macro \rangle [\langle input \ sep \rangle] \{\langle list \rangle\}$

Example Assuming you need a command to format Windows paths, you can define it with

\newmenumacro{\winpath}[bslash]{mystyle}

and then use it as e.g. \winpath{C:\System\Deep\Deeper\YourFile.txt}. Note that mystyle must be defined before you call \newmenumacro.

\providemenumacro \renewmenumacro

There are also the two commands \providemenumacro and \renewmenumacro which take the same arguments as \newmenumacro and word like their LATEX analogons.

Example To change the default input seperator of \menu you must know the default style (which is menus) and then you can say

\renewmenumacro{\menu}[,]{menus}

4.5 Keys

\shift \capslock \tab \esc The menukeys package comes with some macros to print special keys in the sequences set with \keys. Depending on the given OS (see Section 3) some macros behave differently to be able to use a key even if it's undefined via the os option macros like $\langle key \rangle$ mac and $\langle key \rangle$ win that will always give the right symbol.

Here is a full list of available macros:

\ctrl
\alt
\AltGr
\cmd
\Space
\return
\enter
\winmenu
\backspace
\del
\arrowkeyup
\arrowkeydown
\arrowkeyleft

\arrowkeyright

			_			
Macro	Mac	Win.		Macro	\mathbf{Mac}	Win.
\shift	①	仓	_	\winmenu		
\capslock	住	Û		\backspace	\leftarrow	\leftarrow
\tab	\longrightarrow	$\stackrel{\longleftarrow}{\longrightarrow}$		\del	Del. / \boxtimes	Del.
\esc	$\operatorname{esc} / \mathcal{O}$	Esc		\arrowkey{^}	\uparrow	↑
\ctrl	ctrl	Ctrl		\arrowkeyup	\uparrow	↑
\Alt	alt / \sim	Alt		\arrowkey{v}	\downarrow	\downarrow
\AltGr		$\operatorname{Alt}\operatorname{Gr}$		\arrowkeydown	\downarrow	\downarrow
\cmd	cmd / \mathbb{H}			\arrowkey{>}	\rightarrow	\rightarrow
\Space				\arrowkeyright	\rightarrow	\rightarrow
\return	\leftarrow	ل		\arrowkey{<}	\leftarrow	\leftarrow
\enter	~	Enter		\arrowkeyleft	\leftarrow	\leftarrow

\arrowkey

The macro $\arrowkey{(direction)}$ is a little special since it takes the direction as a singe character $\hat{\ }$, v (lower case v), > or <.

\ctrlname \delname mackeys (opt.)

The texts for \ctrl and \del are saved in \ctrlname and \delname respectively. So you can change them with \renewcommand.

The rendering of some Mac macros depend on the option mackeys The different versions are shown in the table above (left: text, right: symbols).

I apologise that there are no commands for the windows key and the apple logo, but that would be a copyright infringement.

5 Known issues and bugs

- If you use the inputenc package menukeys must be loaded after it. Otherwise some key macros get corrupted.
- menukeys must be loaded after xcolor, if you load the latter with options. Otherwise you'll get an option clash Since menukeys loads xcolor internally you may pass options as global options via \documentclass.

Example Set xcolor to cmyk model:

\documentclass[cmyk]{article}
\usepackage{menukeys}
\begin{document}
 Hello World!
\end{document}

• Since menukeys uses catoptions it may causes some problems with orther packages becaus of catoptions option handling. I recommend to load menukeys as a later package in your preamble.

If you find something to add to this list please send me an e-mail.

6 Implementation

6.1 Required packages

```
Load the required packages
```

- 1 \RequirePackage{xparse}
- 2 \RequirePackage{xstring}
- 3 \RequirePackage{etoolbox}

Furthermore we need TikZ and some of it's libraries,

- 4 \RequirePackage{tikz}
- 5 \usetikzlibrary{calc,shapes.symbols,shadows}

the color package xcolor and adjustbox for the typewriterkeys sytle.

- 6 \RequirePackage{xcolor}
- 7 \RequirePackage{adjustbox}

Load relsize to be able to change the font size relative to the surrounding text.

8 \RequirePackage{relsize}

To define the list parsing commands and allow \ as a seperator we load catoptions

9 \RequirePackage{catoptions}[2011/12/07]

6.2 Helper macros

```
Define macros to call \PackageError and warnings
         \tw@mk@error
       \tw@mk@warning
                        10 \newcommand*{\tw@mk@error}[2][Please consult the manual for more information.]{\%
\tw@mk@warning@noline
                             \PackageError{menukeys}{#2}{#1}%
                        12 }
                        13 \newcommand*{\tw@mk@warning}[1]{%
                             \PackageWarning{menukeys}{#1}%
                        15 }
                        16 \newcommand*{\tw@mk@warning@noline}[1]{%
                              \PackageWarningNoLine{menukeys}{#1}%
                        17
                        18 }
         \tw@mk@tempa
                       Some commads for temporary use:
         \tw@mk@tempb
                        19 \def\tw@mk@tempa{}
                        20 \def\tw@mk@tempb{}
   \tw@mk@gobble@args
                       Define a command to gobble arguments.
                        21 \DeclareDocumentCommand{\tw@mk@gobble@args}{m}{%
                              \RenewDocumentCommand{\tw@mk@tempa}{#1}{}%
                        23
                              \tw@mk@tempa%
                        24 }
```

6.3 Options

```
First we declare and process the package options
25 \RequirePackage{kvoptions}
26 \SetupKeyvalOptions{
    family=tw@mk,
27
    prefix=tw@mk@
28
29 }
30 \DeclareBoolOption[true] {definemenumacros}
31 \DeclareBoolOption[true] {definekeys}
32 \DeclareStringOption[mac]{os}
33 \DeclareStringOption[symbols]{mackeys}
34 \ProcessKeyvalOptions{tw@mk}\relax
Now we have to do some error treatment:
35 \IfSubStr{.mac.win.}{.\tw@mk@os.}{}{%
      \tw@mk@error{Unknown value for option 'os'\MessageBreak
      Possible values are 'mac' or 'win'.}%
37
38 }
39 \IfSubStr{.symbols.text.}{.\tw@mk@mackeys.}{}{%
      \tw@mk@error{Unknown value for option 'mackeys'\MessageBreak
      Possible values are 'symbols' or 'text'.}%
41
42 }
```

6.4 Color themes

6.4.1 Internal commands

\tw@make@color@theme

First we define an internal command to make a color theme

```
43 \newcommand*{\tw@make@color@theme}[5]{%
44 \definecolor{tw@color@theme@#1@bg}{#2}{#3}%
45 \definecolor{tw@color@theme@#1@br}{#2}{#4}%
46 \definecolor{tw@color@theme@#1@txt}{#2}{#5}%
47}
```

6.4.2 User-level commands

\newmenucolortheme \newmenucolortheme

After that we define the user-level commands:

```
48 \newcommand*{\newmenucolortheme}[5]{%
49 \@ifundefinedcolor{tw@color@theme@#1@bg}{%
50 \tw@make@color@theme{#1}{#2}{#3}{#4}{#5}
51 }{%
52 \tw@mk@error{Color theme '#1' already defined!\MessageBreak
53 Use \string\renewmenucolortheme\space instead.}
54 }
55 }
56 \let\renewmenucolortheme\tw@make@color@theme
```

\changemenucolor \copymenucolortheme

Lastyle we define the changing and copying commands

57 \newcommand*{\changemenucolor}[4]{%

```
\IfSubStr{ bg br txt }{ #2 }{%
                       58
                                \definecolor{tw@color@theme@#1@#2}{#3}{#4}%
                       59
                       60
                                \tw@mk@error{No such color element ('#2')!\MessageBreak
                       61
                               Possible values are bg, br and txt.}
                       62
                       63
                            }%
                       64 }
                       65 \newcommand*{\copymenucolortheme}[2]{%
                             \@ifundefinedcolor{tw@color@theme@#1@bg}{%
                       66
                               \colorlet{tw@color@theme@#1@bg}{tw@color@theme@#2@bg}%
                       67
                               68
                                \colorlet{tw@color@theme@#1@txt}{tw@color@theme@#2@txt}%
                       69
                       70
                            }{%
                                \tw@mk@error{Color theme '#1' already defined!\MessageBreak
                       71
                       72
                               Use \string\renewmenucolortheme\space instead.}
                            }
                       73
                       74 }
\changemenucolortheme
                      To be able to change the color theme of a style we must define this:
                       75 \newcommand{\changemenucolortheme}[2]{%
                            \ifcsundef{tw@style@#1@pre}{%
                       77
                                \tw@mk@error{Style '#1' undefined!\MessageBreak
                               Maybe you misspelled it?}%
                       78
                            }{%
                       79
                                \@ifundefinedcolor{tw@color@theme@#2@bg}{%
                       80
                                   \tw@mk@error{Color theme '#2' is not defined!}%
                       81
                       82
                       83
                                   \csdef{tw@style@#1@color@theme}{#2}%
                               }%
                       84
                       85
                            }%
                       86 }
       \usemenucolor
                      To use a color of a theme we define \usemenucolor as following.
                       87 \newcommand{\usemenucolor}[1]{%
                            tw@color@theme@\tw@current@color@theme @#1%
                       89 }
```

6.4.3 Predefined themes

There are two predefined color themes

90 \tw@make@color@theme{gray} $\{gray\}\{0.95\}\{0.3\}\{0\}$ 91 \tw@make@color@theme{blacknwhite}{gray}{1}{0}{0}

6.5 **Styles**

The style generating commands will set some commands that are named like $\mathsf{tw@style@}\langle name \rangle \mathsf{@}\langle element \rangle.$

\tw@default@sep
\tw@default@pre
\tw@default@post

Before we can define the internal declaring macro to use it later in the user level commands, we have to set some defaults for the optional arguments

```
92 \newcommand{\tw@default@sep}{%
93 \hspace{0.2em plus 0.1em minus 0.5em}%
94 }
95 \newcommand{\tw@default@pre}{}
96 \newcommand{\tw@default@post}{}
```

6.5.1 Internal commands

Now we can define the internal commands.

\tw@declare@style@simple

Our first step is to define the simple command.

```
97 \DeclareDocumentCommand{\tw@declare@style@simple}{%
      s m O{\tw@default@pre} m O{\tw@default@sep} O{\tw@default@post} m
99 }{%
100
      \csdef{tw@style@#2@color@theme}{#7}%
101
      \csdef{tw@style@#2@pre}{#3}%
      \csdef{tw@style@#2@sep}{#5}%
102
      \csdef{tw@style@#2@post}{#6}%
103
      \IfBooleanTF{#1}{%
104
105
         \csdef{tw@style@#2@single}{#4}%
106
         \csdef{tw@style@#2@first}{#4}%
107
         \csdef{tw@style@#2@mid}{#4}%
108
         \csdef{tw@style@#2@last}{#4}%
      }{%
109
110
         \csdef{tw@style@#2@single}{%
111
            \tikz[baseline=(tw@node.base)]%
112
            \node(tw@node)[#4]{\strut\CurrentMenuElement};}%
113
         \csdef{tw@style@#2@first}{%
            \tikz[baseline=(tw@node.base)]%
114
            \node(tw@node)[#4]{\strut\CurrentMenuElement};}%
115
116
         \csdef{tw@style@#2@mid}{%
117
            \tikz[baseline=(tw@node.base)]%
118
            \node(tw@node)[#4]{\strut\CurrentMenuElement};}%
119
         \csdef{tw@style@#2@last}{%
120
            \tikz[baseline=(tw@node.base)]%
            \node(tw@node)[#4]{\strut\CurrentMenuElement};}%
121
      }%
122
123 }
```

\tw@declare@sytle \tw@declare@sytle@extra@args The next step is to create the extended command. This command must have ten arguments (including the star) so we have to define a helping macro to grab the last two macros.

```
130 \DeclareDocumentCommand{\tw@declare@style}{%
                               s m O{\tw@default@pre} m O{\tw@default@sep} m m m
                         131
                         132 }{%
                         133
                               \def\tw@current@style{#2}
                         134
                               \csdef{tw@style@#2@pre}{#3}%
                         135
                               \csdef{tw@style@#2@sep}{#5}%
                               \IfBooleanTF{#1}{%
                         136
                                   \csdef{tw@style@#2@single}{#8}%
                         137
                                   \csdef{tw@style@#2@first}{#4}%
                         138
                                   \csdef{tw@style@#2@mid}{#6}%
                         139
                                   \csdef{tw@style@#2@last}{#7}%
                         140
                         141
                               }{%
                         142
                                   \csdef{tw@style@#2@single}{%
                                      \tikz[baseline=(tw@node.base)]%
                         143
                                      \node(tw@node)[#8]{\strut\CurrentMenuElement};}%
                         144
                                  \csdef{tw@style@#2@first}{%
                         145
                                      \tikz[baseline=(tw@node.base)]%
                         146
                                      \node(tw@node)[#4]{\strut\CurrentMenuElement};}%
                         147
                         148
                                  \csdef{tw@style@#2@mid}{%
                                      \tikz[baseline=(tw@node.base)]%
                         149
                                      \node(tw@node)[#6]{\strut\CurrentMenuElement};}%
                         150
                                   \csdef{tw@style@#2@last}{%
                         151
                                      \tikz[baseline=(tw@node.base)]%
                         152
                                      \node(tw@node)[#7]{\strut\CurrentMenuElement};}%
                         153
                         154
                               \tw@declare@sytle@extra@args%
                         155
                         156 }
                                User-level commads
                         6.5.2
                         It's time to define the user-level commands now:
    newmenustylesimple
  renewmenustylesimple
                         157 \NewDocumentCommand{\newmenustylesimple}{s m}{%
providemenustylesimple
                               \ifcsundef{tw@style@#2@pre}{%
          newmenustyle
                         159
                                   \IfBooleanTF{#1}{%
                                      \tw@declare@style@simple*{#2}%
        renewmenustyle
                         160
                                  }{%
                         161
      providemenustyle
                         162
                                      \tw@declare@style@simple{#2}%
                         163
                                  }%
                               }{%
                         164
                         165
                                   \tw@mk@error{Style '#2' already defined!\MessageBreak
                                  Use \string\renewmenustylesimple\space instead.}%
                         166
                         167
                                   \tw@mk@gobble@args{o m o o m}%
                         168
                               }%
                         169 }
                         170 \NewDocumentCommand{\renewmenustylesimple}{s m}{%
                         171
                               \IfBooleanTF{#1}{%
```

\tw@declare@style@simple*{#2}%

172

Now we can define \tw@declare@style:

129 }

```
173
      }{%
174
        \tw@declare@style@simple{#2}%
      }%
175
176 }
178
      \ifcsundef{tw@style@#2@pre}{%
179
         \IfBooleanTF{#1}{%
            \tw@declare@style@simple*{#2}%
180
         }{%
181
            \tw@declare@style@simple{#2}%
182
         }%
183
      }{%
184
         \tw@mk@warning{Trying to provide style '#2' failed,\MessageBreak
185
         because it's already defined.\MessageBreak
186
         You may use \string\renewmenustylesimple\space instead.}%
187
         \tw@mk@gobble@args{o m o o m}%
188
      }%
189
190 }
191
192
   \NewDocumentCommand{\newmenustyle}{s m}{%
      \ifcsundef{tw@style@#2@pre}{%
193
         \IfBooleanTF{#1}{%
194
            \tw@declare@style*{#2}%
195
         }{%
196
197
            \tw@declare@style{#2}%
198
         }%
199
         \tw@mk@error{Style '#2' already defined!\MessageBreak
200
         Use \string\renewmenustyle\space instead.}%
201
         \tw@mk@gobble@args{o m o m m m o m}%
202
      }%
203
204 }
205 \NewDocumentCommand{\renewmenustyle}{s m}{%
      \IfBooleanTF{#1}{%
206
207
         \tw@declare@style*{#2}%
208
      }{%
        \tw@declare@style{#2}%
209
      }%
210
211 }
212 \NewDocumentCommand{\providemenustyle}{s m}{%
213
      \ifcsundef{tw@style@#2@pre}{%
         \IfBooleanTF{#1}{%
214
            \tw@declare@style*{#2}%
215
         }{%
216
217
            \tw@declare@style{#2}%
218
         }%
219
      }{%
         \tw@mk@warning{Trying to provide style #2 failed,\MessageBreak
220
221
         because it's already defined.\MessageBreak
222
         You may use \string\renewmenustyle\space instead.}%
```

```
223 \tw@mk@gobble@args{o m o m m m o m}%
224 }%
225}
```

6.5.3 Copying and changing

\copymenustyle The last two steps in this part are to define a comand to copy styles

```
226 \newcommand*{\copymenustyle}[2]{%
      \ifcsundef{tw@style@#1@pre}{%
227
228
         \ifcsundef{tw@style@#2@pre}{%
229
            \tw@mk@error{Can't copy not existing style ('#2')!}%
         }{%
230
            \csletcs{tw@style@#1@pre}{tw@style@#2@pre}%
231
            \csletcs{tw@style@#1@post}{tw@style@#2@post}%
232
            \csletcs{tw@style@#1@sep}{tw@style@#2@sep}%
233
            \csletcs{tw@style@#1@single}{tw@style@#2@single}%
234
235
            \csletcs{tw@style@#1@first}{tw@style@#2@first}%
            \csletcs{tw@style@#1@mid}{tw@style@#2@mid}%
236
237
            \csletcs{tw@style@#1@last}{tw@style@#2@last}%
238
            \csletcs{tw@style@#1@color@theme}{tw@style@#2@color@theme}
239
         }%
240
      }{%
         \tw@mk@error{Style '#1' already exists!}%
^{241}
242
      }%
243 }
```

\changemenuelement

and one to change a single element of a style.

```
244 \NewDocumentCommand{\changemenuelement}{s m m m}{%
      \ifcsundef{tw@style@#2@pre}{%
245
         \tw@mk@error{Style '#2' undefined.}%
246
247
      }{%
248
         \IfSubStr{ single first middle last pre post sep }{ #3 }{%
            \IfBooleanTF{#1}{%
249
                \csdef{tw@style@#2@#3}{#4}%
250
            }{%
251
                \IfSubStr{ pre post sep }{ #3 }{%
252
                   \csdef{tw@style@#2@#3}{#4}%
253
254
255
                \csdef{tw@style@#2@#3}{%}
256
                   \tikz[baseline=(tw@node.base)]%
                   \node(tw@node)[#4]{\strut\CurrentMenuElement};}%
257
               }%
258
            }%
259
         }{\tw@mk@error{No element '#3'. Possible values are\MessageBreak
260
261
           single, first, middle, last, pre, post or sep.}}%
262
      }%
263 }
```

6.5.4 Predefined styles

We define several styles for menu sequences, paths and keystrokes.

tw@set@tikz@colors

First we define a TikZ-style to apply the color theme to a node easily

```
264 \tikzstyle{tw@set@tikz@colors}=[%

265 draw=\usemenucolor{br},

266 fill=\usemenucolor{bg},

267 text=\usemenucolor{txt},

268]
```

Now we can define the styles. To keep the most settings of a style together we make additional TikZ-styles instead of setting everything directly to the nodes.

```
269 \tikzstyle{tw@menus@base}=[%
      tw@set@tikz@colors.
270
      rounded corners=0.15ex,
271
      inner sep=0pt,
272
273
      inner xsep=2pt,
      text height=1.825ex,
274
      text depth=0.7ex,
275
276
      minimum width=1.5em,
      font=\relsize{-1}\sffamily,
277
      signal,
278
      signal to=nowhere,
279
      signal pointer angle=110,
280
281
282 \tw@declare@style*{menus}{%
      \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
283
          \node(tw@node)[tw@menus@base,signal to=east]%
284
          {\strut\CurrentMenuElement};%
285
286 \[ \] [\hspace{-0.2em}\hspace{0em plus 0.1em minus 0.05em}]%
287 {%
      \text{tikz}[\text{baseline}=\{(\$(\text{tw@node.base})+(0,-0.2\text{ex})\$)\}]\%
288
          \node(tw@node)[tw@menus@base,signal from=west,signal to=east]%
289
290
          {\strut\CurrentMenuElement};%
291 }{%
      \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
292
293
          \node(tw@node)[tw@menus@base,signal from=west,]%
294
          {\strut\CurrentMenuElement};%
295 }{%
       \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
296
          \node(tw@node)[tw@menus@base]{\strut\CurrentMenuElement};%
297
298 }{gray}
299
300 \tikzstyle{tw@roundedmenus@base}=[%
      tw@set@tikz@colors,
      rounded corners=0.3ex,
302
303
      inner sep=0pt,
      inner xsep=2pt,
304
      text height=1.825ex,
305
```

```
text depth=0.7ex,
306
      minimum width=1.5em,
307
      font=\relsize{-1}\sffamily,
308
309
      signal,
310
      signal to=nowhere,
311
      signal pointer angle=110,
312]
313 \tw@declare@style*{roundedmenus}{%
      \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
314
          \node(tw@node)[tw@roundedmenus@base,signal to=east]%
315
          {\strut\CurrentMenuElement};%
316
317 }[\hspace{-0.2em}\hspace{0em plus 0.1em minus 0.05em}]%
      \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
319
          \node(tw@node)[tw@roundedmenus@base,signal from=west,signal to=east]%
320
          {\strut\CurrentMenuElement};%
321
322 }{%
      \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]}%
323
324
          \node(tw@node)[tw@roundedmenus@base,signal from=west,]%
325
          {\strut\CurrentMenuElement};%
326 }{%
       \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]}%
327
          \node(tw@node)[tw@roundedmenus@base]{\strut\CurrentMenuElement};%
328
329 }{gray}
330
331 \tikzstyle{tw@angularmenus@base}=[%
      tw@set@tikz@colors,
332
333
      inner sep=0pt,
      inner xsep=2pt,
334
      text height=1.825ex,
335
336
      text depth=0.7ex,
337
      minimum width=1.5em,
338
      font=\relsize{-1}\sffamily,
339
      signal,
340
      signal to=nowhere,
      signal pointer angle=110,
341
342 ]
343 \tw@declare@style*{angularmenus}{%
344
      \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]}%
          \node(tw@node)[tw@angularmenus@base,signal to=east]%
345
346
          {\strut\CurrentMenuElement};%
347 [\hspace{-0.2em}\hspace{0em plus 0.1em minus 0.05em}]%
348 {%
      \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]%}
349
350
          \verb|\node(tw@node)[tw@angularmenus@base, signal from=west, signal to=east]||%
351
          {\strut\CurrentMenuElement};%
352 }{%
      \text{tikz}[\text{baseline}=\{(\$(\text{tw@node.base})+(0,-0.2\text{ex})\$)\}]\%
353
          \node(tw@node)[tw@angularmenus@base,signal from=west,]%
354
355
          {\strut\CurrentMenuElement};%
```

```
356 }{%
      \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
357
         \node(tw@node)[tw@angularmenus@base]{\strut\CurrentMenuElement};%
358
359 }{gray}
360
361 \tikzstyle{tw@roundedkeys@base}=[%
362
      tw@set@tikz@colors,
363
      rounded corners=0.3ex,
      inner sep=Opt,
364
      inner xsep=2pt,
365
      text height=1.825ex,
366
367
      text depth=0.7ex,
      minimum width=1.5em,
368
      font=\relsize{-1}\sffamily,
369
370]
371 \tw@declare@style@simple*{roundedkeys}{\%}
      \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]}%
372
         \node(tw@node)[tw@roundedkeys@base]{\strut\CurrentMenuElement};%
373
374 } [%
375
      \hspace{0.1em plus 0.1em minus 0.05em}%
      \raisebox{0.25ex}{\sffamily\footnotesize+}%
376
377
      \hspace{0.1em plus 0.1em minus 0.05em}%
378]{gray}
379
380 \tikzstyle{tw@shadowedroundedkeys@base}=[%
      tw@set@tikz@colors,
381
      rounded corners=0.3ex,
382
      inner sep=0pt,
383
      inner xsep=2pt,
384
      text height=1.825ex,
385
386
      text depth=0.7ex,
387
      minimum width=1.5em,
388
      font=\relsize{-1}\sffamily,
389
      general shadow={%
         shadow xshift=.2ex, shadow yshift=-.15ex,
390
391
         fill=black,
      },
392
393]
   \tw@declare@style@simple*{shadowedroundedkeys}{%
      \text{tikz[baseline=}\{(\$(tw@node.base)+(0,-0.2ex)\$)\}]\%
395
396
         \node(tw@node)[tw@shadowedroundedkeys@base]{\strut\CurrentMenuElement};%
397 } [%
      \hspace{0.2ex}\hspace{0.1em plus 0.1em minus 0.05em}%
398
      \raisebox{0.25ex}{\sffamily\footnotesize+}%
399
      \hspace{0.1em plus 0.1em minus 0.05em}%
401 ] [\hspace{0.2ex}] {gray}
402
403 \tikzstyle{tw@angularkeys@base}=[%
404
      tw@set@tikz@colors,
405
      inner sep=0pt,
```

```
inner xsep=2pt,
406
      text height=1.825ex,
407
      text depth=0.7ex,
408
      minimum width=1.5em,
409
      font=\relsize{-1}\sffamily,
410
411 ]
412 \tw@declare@style@simple*{angularkeys}{%
      \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]%}
413
         \node(tw@node)[tw@angularkeys@base]{\strut\CurrentMenuElement};%
414
415 } [%
      \hspace{0.1em plus 0.1em minus 0.05em}%
416
417
      \raisebox{0.25ex}{\sffamily\footnotesize+}%
      \hspace{0.1em plus 0.1em minus 0.05em}%
419 ]{gray}
420
421 \tikzstyle{tw@shadowedangularkeys@base}=[%
      tw@set@tikz@colors,
422
423
      inner sep=0pt,
424
      inner xsep=2pt,
425
      text height=1.825ex,
426
      text depth=0.7ex,
      minimum width=1.5em,
427
      font=\relsize{-1}\sffamily,
428
429
      general shadow={%
         shadow xshift=.2ex, shadow yshift=-.15ex,
430
431
         fill=black,
      },
432
433 ]
434 \tw@declare@style@simple*{shadowedangularkeys}{%
      \text{tikz[baseline={($(tw@node.base)+(0,-0.2ex)$)}]}%
435
         \node(tw@node)[tw@shadowedangularkeys@base]{\strut\CurrentMenuElement};%
436
437 } [%
438
      \hspace{0.2ex}\hspace{0.1em plus 0.1em minus 0.05em}%
      \raisebox{0.25ex}{\sffamily\footnotesize+}%
439
      \hspace{0.1em plus 0.1em minus 0.05em}%
440
441 ] [\hspace{0.2ex}] {gray}
442
443 \tikzstyle{tw@typewriterkeys@base}=[%
444
      tw@set@tikz@colors,
      shape=circle,
445
446
      minimum size=2ex,
447
      inner sep=0.5pt, outer sep=1pt,
      font=\ttfamily\relsize{-1},
448
449 ]
450 \tw@declare@style@simple*{typewriterkeys}{%
451
      \def\tw@typewriterkeys@curr@elem{%
452
         \maxsizebox*{2ex}{\CurrentMenuElement}%
453
      \begin{tikzpicture}[baseline={($(tw@node.south)+(0,0.8ex)$)}]%
454
         \node(tw@node)[%
455
```

```
tw@typewriterkeys@base, inner sep=1.25pt, line width=0.6pt%
456
         ]{\tw@typewriterkeys@curr@elem};
457
         \node[tw@typewriterkeys@base]{\tw@typewriterkeys@curr@elem};
458
      \end{tikzpicture}%
459
460 } [%
461
      \hspace{0.2ex}\hspace{0.1em plus 0.1em minus 0.05em}%
462
      \raisebox{0.25ex}{\sffamily\footnotesize+}%
      \hspace{0.1em plus 0.1em minus 0.05em}%
463
464 ]{blacknwhite}
465
   \tw@declare@style@simple*{paths}{%
466
467
      {\ttfamily\CurrentMenuElement}%
468 } [%
      \hspace{0.2em plus 0.1em}%
469
      \raisebox{0.08ex}{%
470
         \tilde{t}ikz\left[\left(0,0\right)-\left(0.5ex,0.5ex\right)\right]
471
                    -- (0,1ex) -- cycle;%
472
473
474
      \hspace{0.2em plus 0.1em}%
475 ]{blacknwhite}
476
477 \newcounter{tw@hyphen@char@num}
478 \newif\if@tw@hyphenatepaths@warnig
479 \@tw@hyphenatepaths@warnigtrue
480 \tw@declare@style@simple*{hyphenatepaths}{%
      {\ttfamily
481
       \IfStrEq{T1}{\encodingdefault}{%
482
           \setcounter{tw@hyphen@char@num}{23}%
483
484
          \IfStrEq{OT1}{\encodingdefault}{%
485
              \setcounter{tw@hyphen@char@num}{255}%
486
487
          }{%
488
              \if@tw@hyphenatepaths@warnig%
             \tw@mk@warning{The hyphenatepaths styles will probably only\MessageBreak
489
             work with T1 or OT1 encoding.}%
490
491
              \fi\global\@tw@hyphenatepaths@warnigfalse%
          }%
492
       }%
493
494
       \hyphenchar\font=\value{tw@hyphen@char@num}\relax
       \CurrentMenuElement}%
495
496 } [%
      \hspace{0.2em plus 0.1em}%
497
      \raisebox{0.08ex}{%
498
         \tilde{tikz} [\usemenucolor{txt}] (0,0) -- (0.5ex,0.5ex)%
499
500
                    -- (0,1ex) -- cycle;%
501
502
      \hspace{0.2em plus 0.1em}%
503 ]{blacknwhite}
504
505 \newcommand*{\drawtikzfolder}[1][white]{%
```

```
\begin{tikzpicture}[rounded corners=0.02ex,scale=0.7]
506
         \draw (0,0) -- (1em,0) -- (1em,1.5ex) -- (0.5em,1.5ex) -- %
507
                (0.4em, 1.7ex) -- (0.1em, 1.7ex) -- (0, 1.5ex) -- cycle;
508
         \draw [fill=#1] (0,0) -- (1em,0) -- (0.85em,1.15ex) -- %
509
               ++(-1em,0) -- cycle;
510
      \end{tikzpicture}%
511
512 }
513
514 \copymenustyle{pathswithfolder}{paths}
515 \changemenuelement{pathswithfolder}{pre}{\%}
      \textcolor{\usemenucolor{txt}}{\drawtikzfolder}%
517
      \hspace{0.2em plus 0.1em}%
518 }
519
520 \copymenustyle{pathswithblackfolder}{paths}
521 \changemenuelement{pathswithblackfolder}{pre}{\%}
      \textcolor{\usemenucolor{txt}}{\drawtikzfolder[\usemenucolor{txt}]}%
522
      \hspace{0.2em plus 0.1em}%
523
524 }
525
526 \copymenustyle{hyphenatepathswithfolder}{hyphenatepaths}
527 \changemenuelement{hyphenatepathswithfolder}{pre}{%
      \textcolor{\usemenucolor{txt}}{\drawtikzfolder}%
528
      \hspace{0.2em plus 0.1em}%
529
530 }
532 \copymenustyle{hyphenatepathswithblackfolder}{hyphenatepaths}
533 \changemenuelement{hyphenatepathswithblackfolder}{pre}{%
      \textcolor{\usemenucolor{txt}}{\drawtikzfolder[\usemenucolor{txt}]}%
534
      \hspace{0.2em plus 0.1em}%
535
536 }
```

6.6 Menu macros

6.6.1 Internal commands

```
First we define our default input seperator
537 \edef\tw@default@input@sep{,}

\CurrentMenuElement and the \CurrentMenuElement dummy
538 \def\CurrentMenuElement{}

\tw@define@menu@macro

Then we set up the internal command to create new menu macros. The list parsing code was essentially provided by Ahmed Musa at http://tex.stackexchange.

com/a/44989/4918. Thank you very much!

539 \begingroup
540 \lccode'\,=1
541 \lowercase{\endgroup}
542 \robust@def*\tw@mk@test@input@sep#1{%
```

```
\xifinsetTF{,\cpttrimspaces{#1},}{,bslash,backslash,directory,location,}%
543
544
     }%
545 }
546 \ \ensuremath{\mbox{NewDocumentCommand}{\tw@define@menu@macro}}{\mbox{\%}}
      m O{\tw@default@input@sep} m
547
548 }{%
549
      \ifcsundef{tw@style@#3@sep}{%
550
         \tw@mk@error{Can't define menu macro \string#1\space,\MessageBreak
         because the style '#3' is not available!}
551
      }{%
552
         \csdef{tw@parse@menu@list@\expandafter\@gobble\string#1}##1{%
553
            \iflastindris
554
                \ifnum\indrisnr=\@ne
555
                    \edef\CurrentMenuElement{##1}%
556
                    \Onameuse{twOstyleO#3Osingle}%
557
                \else
558
                    \edef\CurrentMenuElement{##1}%
559
                    \Onameuse{twOstyleO#3Osep}\Onameuse{twOstyleO#3Olast}%
560
561
                \fi
            \else
562
                \ifnum\indrisnr=\@ne
563
                   \edef\CurrentMenuElement{##1}%
564
                   \@nameuse{tw@style@#3@first}%
565
566
                \else
567
                   \edef\CurrentMenuElement{##1}%
                   \Onameuse{twOstyleO#3Osep}\Onameuse{twOstyleO#3Omid}%
568
                \fi
569
            \fi
570
         }%
571
         \expandafter\newcommand\csname\expandafter\@gobble\string#1\endcsname[2][#2]{%
572
            {\def\tw@current@color@theme{\csname tw@style@#3@color@theme\endcsname}%
573
574
             \@nameuse{tw@style@#3@pre}%
575
            \tw@mk@test@input@sep{##1}{%
                \edef\tw@menu@list{\detokenize{##2}}\edef\tw@mk@tempa{\@backslashchar}%
576
            }{%
577
                \edef\tw@menu@list{\unexpanded{##2}}\edef\tw@mk@tempa{\cpttrimspaces{##1}}%
578
            }%
579
580
             {\letcs{\tw@mk@tempb}{tw@parse@menu@list@\expandafter\@gobble\string#1}%
             \cptexpanded{\indrisloop*[\tw@mk@tempa]}\tw@menu@list\tw@mk@tempb}%
             \@nameuse{tw@style@#3@post}}%
582
583
         }%
      }%
584
585 }
586 \edef\cpt@parserlist{\cpt@parserlist\@backslashchar}
```

6.6.2 User-level commands

\newmenumacro \renewmenumacro \providemenumacro Now it's time to build the user-level commands

 $587 \ensuremath{\mbox{NewDocumentCommand}\mbox{menumacro}{m 0{\tw0default0input0sep} m}{\%}$

```
\ifcsundef{\expandafter\@gobble\string#1}{%
588
         \tw@define@menu@macro{#1}[#2]{#3}%
589
         \expandafter\cptrobustify\csname\expandafter\@gobble\string#1\endcsname
590
      }{
591
         \tw@mk@error{Menu macro '\string#1' already defined!\MessageBreak
592
593
         Use \string\renewmenustyle\space instead.}
594
      }%
595 }
596 \NewDocumentCommand{\renewmenumacro}{m O{\tw@default@input@sep} m}{%
      \cslet{\expandafter\@gobble\string#1}{\relax}%
597
      tw@define@menu@macro{#1}[#2]{#3}%
598
599 }
600 \NewDocumentCommand{\providemenumacro}{m O{\tw@default@input@sep} m}{%
      \ifcsundef{\expandafter\@gobble\string#1}{%
601
         \tw@define@menu@macro{#1}[#2]{#3}%
602
603
         \tw@mk@warning{Menu macro '\string#1' already defined!\MessageBreak
604
         Use \string\renewmenustyle\space to redefine it.}
605
606
      }%
607 }
```

6.6.3 Predefined menu macros

Now we got all tools to predefine some menu macros. To be sure that these commands won't conflict with other packages we introduced the option definemacros. Here we have to check it:

608 \iftw@mk@definemenumacros

```
\menu And then we define three basic macros.

\directory 609 \newmenumacro{\menu}[>]{menus}

\keys 610 \newmenumacro{\directory}[/]{paths}

611 \newmenumacro{\keys}[+]{roundedkeys}
```

Lastly we close the definemacros if statment:

612\fi

6.7 Keys

Before we define anything we check if the user allows it:

```
613 \ \text{iftw@mk@definekeys}
```

Before define the key macros we create some macros that save some typing by condensing the similarities between the key marcros.

\tw@make@key@box

The first of these macros helps us building save boxes to store the {tikzpicture}, that will draw the key later. This is necessary because otherwise the picture will inherit the style of the key sequence node.

```
614 \NewDocumentCommand{\tw@make@key@box}{m m}{%
615 \expandafter\newbox\csname tw@mk@box@#1\endcsname
```

```
\expandafter\sbox\csname tw@mk@box@#1\endcsname{%
                     616
                               #2%
                     617
                            }%
                     618
                            \csdef{tw@mk@#1}{%}
                     619
                     620
                               \expandafter\usebox\csname tw@mk@box@#1\endcsname%
                     621
                            }%
                     622 }
\tw@make@key@macro
                     The next macro defines the user level command by accessing a macro like
                     tw@mk@\langle key \rangle or tw@mk@\langle key \rangle@\langle os \rangle, if the apperance differs between Mac and Win-
                     dows. To use this macro we assume that the twomko\langle key \rangle commads are defined.
                     623 \NewDocumentCommand{\tw@make@key@macro}{s m}{%
                            \IfBooleanTF{#1}{%
                     624
                               \expandafter\providecommand\csname\expandafter\@gobble\string#2\endcsname{%
                     625
                     626
                                   \expandonce{\maxsizebox{!}{1.8ex}{%
                     627
                                      \@nameuse{tw@mk@\expandafter\@gobble\string#2@\tw@mk@os}}%
                     628
                                  }%
                     629
                               }%
                               \expandafter\providecommand\csname\expandafter\@gobble\string#2mac\endcsname{%
                     630
                                   \expandonce{\maxsizebox{!}{1.8ex}{%
                     631
                     632
                                      \@nameuse{tw@mk@\expandafter\@gobble\string#2@mac}}%
                     633
                                  }%
                     634
                               }%
                               \expandafter\providecommand\csname\expandafter\@gobble\string#2win\endcsname{%
                     635
                                   \expandonce{\maxsizebox{!}{1.8ex}{%
                     636
                                      \@nameuse{tw@mk@\expandafter\@gobble\string#2@win}}%
                     637
                                  }%
                     638
                               }%
                     639
                     640
                               \expandafter\providecommand\csname\expandafter\@gobble\string#2\endcsname{%
                     641
                                   \expandonce{\maxsizebox{!}{1.8ex}{%
                     642
                                      \@nameuse{tw@mk@\expandafter\@gobble\string#2}}%
                     643
                                  }%
                     644
                               }%
                     645
                     646
                            }%
                     647 }
                     The last helping macro is \twOdefineOmackey. We use it to exequte code depend-
 \tw@define@mackey
                     ing on the mackeys option.
                     648 \newcommand*{\tw@define@mackey}[2]{%
                     649
                            \IfStrEq{text}{\tw@mk@mackeys}{#1}{%
                               \IfStrEq{symbols}{\tw@mk@mackeys}{#2}{}%
                     650
                     651
                     652 }
             \shift
                     Now we are prepared to generate the key macros. I will be nearly the same way
                     for all keys. Step one is to build a tw@mk@\langle key \rangle macro
         \capslock
               \tab
                     653 \tw@make@key@box{shift}{%
               \esc
                            \begin{tikzpicture}[yshift=-0.1ex,baseline={(0,0)},semithick]
              \ctrl
               \alt
                                                             29
             \AltGr
               \cmd
             \Space
            \return
             \enter
```

\winmenu \backspace \del

```
\draw (0.3ex,0) -- (1.1ex,0) -- (1.1ex,1.2ex) -- %
655
                 (1.5ex,1.2ex) -- (0.7ex,1.9ex) -- (-0.1ex,1.2ex) -- %
656
                (0.3ex,1.2ex) -- cycle;
657
      \end{tikzpicture}%
658
659 }
and then we define the user-level command \langle key \rangle
660 \tw@make@key@macro{\shift}
It's a little more complicated if the apperance should differ depending on the OS.
The first step again is to define tw@mk@\langle key \rangle@mac and tw@mk@\langle key \rangle@win:
661 \tw@make@key@box{capslock@mac}{%
      \begin{tikzpicture}[yshift=-0.1ex,baseline={(0,0)},semithick]
662
          \draw (0.3ex,0.7ex) -- (1.1ex,0.7ex) -- (1.1ex,1.2ex) -- %
663
                (1.5ex,1.2ex) -- (0.7ex,1.9ex) -- (-0.1ex,1.2ex) -- %
664
                (0.3ex, 1.2ex) -- cycle;
665
666
          \draw (0.3ex,0) rectangle (1.1ex,0.4ex);
667
      \end{tikzpicture}%
668 }
669 \tw@make@key@box{capslock@win}{%
      \begin{tikzpicture}[yscale=-1,yshift=-1.8ex,baseline={(0,0)},semithick]
670
671
          \draw (0.3ex,0) -- (1.1ex,0) -- (1.1ex,1.2ex) -- %
672
                (1.5ex,1.2ex) -- (0.7ex,1.9ex) -- (-0.1ex,1.2ex) -- %
673
                (0.3ex, 1.2ex) -- cycle;
      \end{tikzpicture}%
674
675 }
And then use the starred version \twOmakeOkeyOmacro* which creates \langle key \rangle that
depends on the os option, \langle key \rangle mac and \langle key \rangle win, that are not affected by os.
676 \tw@make@key@macro*{\capslock}
Here are the other macros:
677 \tw@make@key@box{tab@mac}{%
      \begin{tikzpicture}[yshift=0.5ex,baseline={(0,0)}]
678
          \frac{-}{\text{min}} (0,0) -- (1\text{em},0);
679
680
          draw (1em, -0.45ex) -- (1em, 0.45ex);
681
      \end{tikzpicture}%
682 }
683 \tw@make@key@box{tab@win}{%
      \begin{tikzpicture}[yshift=0.1ex,baseline={(0,0)}]
684
          \draw [->,semithick] (0.2em,0) -- (1.2em,0);
685
          \frac{1.2em,-0.45ex}{--(1.2em,0.45ex)};
686
          \draw [<-,semithick] (0,1ex) -- (1em,1ex);
687
          draw (0,0.55ex) -- (0,1.55ex);
688
      \end{tikzpicture}%
689
690 }
691 \tw@make@key@macro*{\tab}
693 \def\tw@mk@esc@win{Esc}
694 \tw@define@mackey{%
      \def\tw@mk@esc@mac{esc}
```

```
696 }{%
697
                \tw@make@key@box{esc@mac}{%
                       \begin{tikzpicture}[yshift=-0.1ex,baseline={(0,0)},semithick]
698
                                draw [->] (0.5ex, 0.5ex) -- ++ (45:1.5ex);
699
                                \draw (0.5ex,0.5ex) ++(15:0.6ex) arc (15:-285:0.6ex);
700
701
                        \end{tikzpicture}%
702
                }%
703 }
704 \tw@make@key@macro*{\esc}
705
706 \providecommand\ctrlname{Ctrl}
707 \def\tw@mk@ctrl@win{\ctrlname}
708 \def\tw@mk@ctrl@mac{ctrl}
709 \tw@make@key@macro*{\ctrl}
710
711 \def\tw@mk@Alt@win{Alt}
712 <page-header>
               \def\tw@mk@Alt@mac{alt}%
713
714 }{%
715
                \tw@make@key@box{Alt@mac}{%
716
                        \begin{tikzpicture}[semithick]
                               \draw (0,1ex) -- (0.5ex,1ex) -- (1ex,0.3ex) -- (1.8ex,0.3ex);
717
                               \draw (0.8ex,1ex) -- (1.8ex,1ex);
718
                        \end{tikzpicture}%
719
                }%
720
721 }
722 \tw@make@key@macro*{\Alt}
723
724 \providecommand*{\AltGr}{Alt\,Gr}
725
726 \left( \frac{m \ \cmd\ \cm
727
                \tw@mk@warning{'\string\cmd' only for Mac!}%
729 \tw@define@mackey{%
                \def\tw@mk@cmd@mac{cmd}%
730
731 }{%
                \tw@make@key@box{cmd@mac}{%
732
                       \begin{tikzpicture}[yshift=-0.15ex,baseline={(0,0)},semithick]
733
                               \draw (0.5ex, 0.7ex) -- (0.5ex, 1.25ex) arc (0:270:0.25ex) -- %
734
                                               (1.25ex, 1ex) arc (-90:180:0.25ex) -- (1ex, 0.25ex) %
735
736
                                               arc (-180:90:0.25ex) -- (0.25ex,0.5ex) arc (90:360:0.25ex) %
                                               -- cycle;
737
                        \end{tikzpicture}%
738
               }%
739
740 }
741 \tw@make@key@macro*{\cmd}
742
743 \providecommand*{\Space}{\expandonce{\rule{3em}{0pt}}}
744
745 \tw@make@key@box{return@mac}{%
```

```
\begin{tikzpicture}[semithick]
746
         \draw [->, rounded corners=0.3ex] (1.25ex,1ex) -| %
747
                (2ex,0) -- (0,0);
748
      \end{tikzpicture}%
749
750 }
751 \tw@make@key@box{return@win}{%
752
      \begin{tikzpicture}[semithick]
         \draw [->] (1ex,1.25ex) |- (0,0);
753
      \end{tikzpicture}%
754
755 }
756 \tw@make@key@macro*{\return}
758 \def\tw@mk@enter@win{Enter}
759 \tw@make@key@box{enter@mac}{%
      \begin{tikzpicture}[semithick]
760
         \draw (0,0) -- (0.5ex,0.5ex) -- (1ex,0);
761
         draw (0,0.55ex) -- (1ex,0.55ex);
762
      \end{tikzpicture}%
763
764 }
765 \tw@make@key@macro*{\enter}
766
767 \def\tw@mk@winmenu@mac{%
      \tw@mk@warning{'\string\winmenu' only for Windows!}%
768
769 }
770 \tw@make@key@box{winmenu@win}{%
      \begin{tikzpicture}[yshift=-0.2ex,baseline={(0,0)},semithick]
771
         \draw (0,0) rectangle (1.5ex,1.8ex);
772
         \det (0.25ex, 1.4ex) -- ++(1ex, 0);
773
         \draw (0.25ex, 1ex) -- ++(1ex, 0);
774
         \draw (0.25ex, 0.6ex) -- ++(1ex, 0);
775
      \end{tikzpicture}%
776
777 }
778 \tw@make@key@macro*{\winmenu}
779
780 \tw@make@key@box{backspace}{%
      \begin{tikzpicture}[yshift=0.5ex,baseline={(0,0)},thick]
781
         \draw [<-] (0,0) -- (1.25em,0);
782
783
      \end{tikzpicture}%
784 }
785 \tw@make@key@macro{\backspace}
786
787 \providecommand{\delname}{Del.}
788 \def\tw@mk@del@win{\delname}
789 \tw@define@mackey{%
790
      \def\tw@mk@del@mac{\delname}%
791 }{%
792
      \tw@make@key@box{del@mac}{%
793
         \begin{tikzpicture}
             \draw [semithick] (0,0) -- (1.5ex,0) -- (2ex,0.5ex) --%
794
                   (1.5ex, 1ex) -- (0, 1ex) -- cycle;
795
```

```
\draw (0.5ex, 0.2ex) -- (1.1ex, 0.8ex);
                 796
                 797
                              \draw (0.5ex, 0.8ex) -- (1.1ex, 0.2ex);
                          \end{tikzpicture}%
                 798
                       }%
                 799
                 800 }
                 801 \tw@make@key@macro*{\del}
   \arrowkeyup
                Lastly we define the arrow macros:
 \arrowkeydown
                 802 \tw@make@key@box{arrowkeyup}{%
 \arrowkeyleft
                       \begin{tikzpicture}[yshift=-0.2ex,baseline={(0,0)}]
\arrowkeyright
                          \frac{-}{\sin [-)}, semithick] (0,0) -- (0,0.8em);
                 804
                       \end{tikzpicture}%
                 805
                 806 }
                 807 \tw@make@key@macro{\arrowkeyup}
                 808
                 809 \tw@make@key@box{arrowkeydown}{%
                       \begin{tikzpicture}[yshift=0.7em,baseline={(0,0)}]
                 810
                          \frac{-}{\sin [-)}, semithick] (0,0) -- (0,-0.8em);
                 811
                       \end{tikzpicture}%
                 812
                 813 }
                 814 \tw@make@key@macro{\arrowkeydown}
                 815
                 816 \tw@make@key@box{arrowkeyright}{%
                       \begin{tikzpicture}[yshift=0.5ex,baseline={(0,0)}]
                 817
                          \draw [->,semithick] (0,0) -- (0.8em,0);
                 818
                       \end{tikzpicture}%
                 819
                 820 }
                 821 \tw@make@key@macro{\arrowkeyright}
                 822
                 823 \tw@make@key@box{arrowkeyleft}{%
                       \begin{tikzpicture}[yshift=0.5ex,baseline={(0,0)}]
                 824
                          \frac{-}{\sin (0,0)} - (-0.8em,0);
                 825
                 826
                       \end{tikzpicture}%
                 827 }
                 828 \tw@make@key@macro{\arrowkeyleft}
                And the \arrowkey macro that get's it's direction as argument.
     \arrowkey
                 829 \newcommand{\arrowkey}[1]{%
                       \IfStrEq{^}{#1}{\arrowkeyup}{%
                 830
                          \IfStrEq{v}{#1}{\arrowkeydown}{%
                 831
                             \IfStrEq{<}{#1}{\arrowkeyleft}{%
                 832
                 833
                                 \IfStrEq{>}{#1}{\arrowkeyright}{%
                                    \twOmkOerror{Wrong value '#1' for \string\arrowkey\MessageBreak
                 834
                                    Possible values are '^', 'v', '<' or '>'}%
                 835
                                 }%
                 836
                             }%
                 837
                          }%
                 838
                 839
                       }%
                 840 }
```

Close the \iftw@mk@definekeys 841 \fi

7 Change history

v1.0	v1.1a
General: Initial version 1	\newmenumacro: Added a line to
v1.1	make a new macro robust 27
General: Improved manual 1	\tw@define@menu@macro: Fixed mi-
Load xcolor before menukeys. 13	nor bug, that causes a warning
\directory: Renamed \path to	about robustifying (issu $\#23$),
\directory becase it crashes	by deleting the line to make the
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