

The **tabularkv** package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2006/02/20 v1.1

Abstract

This package adds a key value interface for tabular by the new environment **tabularkv**. Thus the \TeX source code looks better by named parameters, especially if package **tabularht** is used.

Contents

1 Usage	1
1.1 Example	2
2 Implementation	2
3 Installation	3
3.1 Some details for the interested	3
4 History	4
[2005/09/22 v1.0]	4
[2006/02/20 v1.1]	4
5 Index	4

1 Usage

`\usepackage{tabularkv}`

The package provides the environment **tabularkv** that takes an optional argument with tabular parameters:

width: width specification, "tabular*" is used.

x: width specification, **tabularx** is used, package **tabularx** must be loaded.

height: height specification, see package **tabularht**.

valign: vertical positioning, this option is optional;
values: top, bottom, center.

Parameter **valign** optional, the following are equivalent:

```
\begin{tabularkv}[... , valign=top]{l}...\end{tabularkv}
\begin{tabularkv}[...] [t]{l}...\end{tabularkv}
```

1.1 Example

```
1 <*example>
2 \documentclass{article}
3 \usepackage{tabularkv}
4
5 \begin{document}
6 \fbox{%
7   \begin{tabularkv}[
8     width=4in,
9     height=1in,
10    valign=center
11  ]{@{}l@{\extracolsep{\fill}}r@{}}
12    upper left corner & upper right corner\\%
13    \noalign{\vfill}%
14    \multicolumn{2}{@{}c@{}}{bounding box}\\
15    \noalign{\vfill}%
16    lower left corner & lower right corner\\
17  \end{tabularkv}%
18 }
19 \end{document}
20 </example>
```

2 Implementation

```
21 <*package>
22 Package identification.
23 \NeedsTeXFormat{LaTeX2e}
24 \ProvidesPackage{tabularkv}%
25   [2006/02/20 v1.1 Key value interface for tabular parameters (HO)]
26 \RequirePackage{keyval}
27 \RequirePackage{tabularht}
28
29 \let\tabKV@star@x\@empty
30 \let\tabKV@width\@empty
31 \let\tabKV@valign\@empty
32
33 \define@key{tabKV}{height}{%
34   \setlength{\dimen@}{#1}%
35   \edef\t@oarrayheight{\to\the\dimen@}%
36 }
37 \define@key{tabKV}{width}{%
38   \def\tabKV@width{#1}%
39   \def\tabKV@star@x{*}%
40 }
41 \define@key{tabKV}{x}{%
42   \def\tabKV@width{#1}%
43   \def\tabKV@star@x{x}%
44 }
45 \define@key{tabKV}{valign}{%
46   \edef\tabKV@valign{[\@car #1c\@nil]}%
47 }
48
49 \newenvironment{tabularkv}[1][ ]{%
50   \setkeys{tabKV}{#1}%
51   \@nameuse{%
52     tabular\tabKV@star@x\expandafter\expandafter\expandafter
53   }%
54   \expandafter\tabKV@width\tabKV@valign
55 }{%
56   \@nameuse{endtabular\tabKV@star@x}%
57 }
58 </package>
```

3 Installation

CTAN. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/tabularkv.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/tabularkv.pdf](#) Documentation.

Unpacking. The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain- \TeX :

```
tex tabularkv.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

<code>tabularkv.sty</code>	\rightarrow	<code>tex/latex/oberdiek/tabularkv.sty</code>
<code>tabularkv.pdf</code>	\rightarrow	<code>doc/latex/oberdiek/tabularkv.pdf</code>
<code>tabularkv-example.tex</code>	\rightarrow	<code>doc/latex/oberdiek/tabularkv-example.tex</code>
<code>tabularkv.dtx</code>	\rightarrow	<code>source/latex/oberdiek/tabularkv.dtx</code>

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

Refresh file databases. If your \TeX distribution (`te \TeX` , `mik \TeX` , ...) rely on file databases, you must refresh these. For example, `te \TeX` users run `texhash` or `mktexlsr`.

3.1 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk tabularkv.pdf unpack_files output .
```

Unpacking with \LaTeX . The `.dtx` chooses its action depending on the format:

plain- \TeX : Run `docstrip` and extract the files.

\LaTeX : Generate the documentation.

If you insist on using \LaTeX for `docstrip` (really, `docstrip` does not need \LaTeX), then inform the autodetect routine about your intension:

```
latex \install=y\input{tabularkv.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with `pdf \LaTeX` :

```
pdflatex tabularkv.dtx
makeindex -s gind.ist tabularkv.idx
pdflatex tabularkv.dtx
makeindex -s gind.ist tabularkv.idx
pdflatex tabularkv.dtx
```

¹<http://ftp.ctan.org/tex-archive/>

4 History

[2005/09/22 v1.0]

- First public version.

[2006/02/20 v1.1]

- DTX framework.
- Code is not changed.

5 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols		N	
<code>\@car</code>	45	<code>\NeedsTeXFormat</code>	22
<code>\@empty</code>	28, 29, 30	<code>\newenvironment</code>	47
<code>\@nameuse</code>	49, 54	<code>\noalign</code>	13, 15
<code>\@nil</code>	45		
<code>\@toarrayheight</code>	34	P	
<code>\@</code>	12, 14, 16	<code>\ProvidesPackage</code>	23
B		R	
<code>\begin</code>	5, 7	<code>\RequirePackage</code>	25, 26
D		S	
<code>\define@key</code>	32, 36, 40, 44	<code>\setkeys</code>	48
<code>\dimen@</code>	33, 34	<code>\setlength</code>	33
<code>\documentclass</code>	2		
E		T	
<code>\end</code>	17, 19	<code>\tabKV@star@x</code>	28, 38, 42, 50, 54
<code>\extracolsep</code>	11	<code>\tabKV@valign</code>	30, 45, 52
		<code>\tabKV@width</code>	29, 37, 41, 52
		<code>\the</code>	34
F		U	
<code>\fbox</code>	6	<code>\usepackage</code>	3
<code>\fill</code>	11		
M		V	
<code>\multicolumn</code>	14	<code>\vfill</code>	13, 15