

The `tabularkv` package

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2016/05/16 v1.2

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.

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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.

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

Parameter valign optional, the following are equivalent:

```
\begin{tabularkv}[... , valign=top]{1}... \end{tabularkv}
\begin{tabularkv}[...] [t]{1}... \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>
Package identification.
22 \NeedsTeXFormat{LaTeX2e}
23 \ProvidesPackage{tabularkv}%
24   [2016/05/16 v1.2 Tabular with key value interface (HO)]
25 \RequirePackage{keyval}
26 \RequirePackage{tabularht}
27
28 \let\tabKV@star@x\@empty
29 \let\tabKV@width\@empty
30 \let\tabKV@valign\@empty
31
32 \define@key{tabKV}{height}{%
33   \setlength{\dimen@}{#1}%
34   \edef\@toarrayheight{to\the\dimen@}%
35 }
36 \define@key{tabKV}{width}{%
37   \def\tabKV@width{#1}%
38   \def\tabKV@star@x{*}%
39 }
40 \define@key{tabKV}{x}{%
41   \def\tabKV@width{#1}%
42   \def\tabKV@star@x{x}%
43 }
44 \define@key{tabKV}{valign}{%
45   \edef\tabKV@valign{[\@car #1c\@nil]}%
46 }
```

```

47 \newenvironment{tabularkv}[1][1]{%
48   \setkeys{tabKV}{#1}%
49   \@nameuse{%
50     tabular\tabKV@star@x\expandafter\expandafter\expandafter
51   }%
52   \expandafter\tabKV@width\tabKV@valign
53 }{%
54   \@nameuse{endtabular\tabKV@star@x}%
55 }
56 \</package>

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

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

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

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

TDS refers to the standard “A Directory Structure for T_EX Files” ([CTAN:pkg/tds](#)). Directories with `texmf` in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

3.3 Package installation

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

```
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):

```

tabularkv.sty      → tex/latex/oberdiek/tabularkv.sty
tabularkv.pdf     → doc/latex/oberdiek/tabularkv.pdf
tabularkv-example.tex → doc/latex/oberdiek/tabularkv-example.tex
tabularkv.dtx    → source/latex/oberdiek/tabularkv.dtx

```

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`.

¹[CTAN:pkg/tabularkv](#)

3.4 Refresh file name databases

If your T_EX distribution (T_EX Live, MiK_TE_X, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run `texhash` or `mktextlsr`.

3.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), then inform the autodetect routine about your intention:

```
latex \let\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 pdfL^AT_EX:

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

4 History

[2005/09/22 v1.0]

- First public version.

[2006/02/20 v1.1]

- DTX framework.
- Code is not changed.

[2016/05/16 v1.2]

- Documentation updates.

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; plain numbers refer to the code lines where the entry is used.

Symbols

`\@car` 45

<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		
<code>\\</code>	12, 14, 16		
		P	
		<code>\ProvidesPackage</code>	23
		R	
B		<code>\RequirePackage</code>	25, 26
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E		<code>\tabKV@star@x</code>	28, 38, 42, 50, 54
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		<code>\the</code>	34
		U	
F		<code>\usepackage</code>	3
<code>\fbox</code>	6		
<code>\fill</code>	11		
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M		<code>\vfill</code>	13, 15
<code>\multicolumn</code>	14		
N			
<code>\NeedsTeXFormat</code>	22		