

The `tabularkv` package

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Abstract

This package adds a key value interface for tabular by the new environment `tabularkv`. Thus the $\text{T}_{\text{E}}\text{X}$ 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 Download	3
3.2 Bundle installation	3
3.3 Package installation	3
3.4 Refresh file name databases	3
3.5 Some details for the interested	3
4 History	4
[2005/09/22 v1.0]	4
[2006/02/20 v1.1]	4
[2016/05/16 v1.2]	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}
```

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

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 \end{example}
```

2 Implementation

```
21 (*package)
22
23 Package identification.
24 \NeedsTeXFormat{LaTeX2e}
25 \ProvidesPackage{tabularkv}%
26 [2016/05/16 v1.2 Tabular with key value interface (HO)]
27
28 \RequirePackage{keyval}
29 \RequirePackage{tabularht}
30
31 \let\tabKV@star@x\@empty
32 \let\tabKV@width\@empty
33 \let\tabKV@valign\@empty
34
35 \define@key{tabKV}{height}{%
36   \setlength{\dimen@}{#1}%
37   \edef\t@arrayheight{\the\dimen@}%
38 }
39
40 \define@key{tabKV}{width}{%
41   \def\tabKV@width{#1}%
42   \def\tabKV@star@x{*}%
43 }
44
45 \define@key{tabKV}{x}{%
46   \def\tabKV@width{#1}%
47   \def\tabKV@star@x{x}%
48 }
49
50 \define@key{tabKV}{valign}{%
51   \edef\tabKV@valign{[\@car #1c\@nil]}%
52 }
53
54 \newenvironment{tabularkv}[1][ ]{%
55   \setkeys{tabKV}{#1}%
56   \@nameuse{%
57     tabular\tabKV@star@x\expandafter\expandafter\expandafter
58   }%
59   \expandafter\tabKV@width\tabKV@valign
60 }{%
61   \@nameuse{endtabular\tabKV@star@x}%
62 }
63
64 \end{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.

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 `mktexlsr`.

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.

¹`CTAN:pkg/tabularkv`

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		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
	F	<code>\tabKV@width</code>	29, 37, 41, 52
<code>\fbox</code>	6	<code>\the</code>	34
<code>\fill</code>	11		
	M		U
<code>\multicolumn</code>	14	<code>\usepackage</code>	3
			V
		<code>\vfill</code>	13, 15