

# 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  $\text{\TeX}$  source code looks better by named parameters, especially if package `tabularht` is used.

## Contents

<b>1</b>	<b>Usage</b>	<b>1</b>
1.1	Example . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>3</b>
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 . . . . .	4
<b>4</b>	<b>History</b>	<b>4</b>
[2005/09/22 v1.0]	. . . . .	4
[2006/02/20 v1.1]	. . . . .	4
[2016/05/16 v1.2]	. . . . .	4
<b>5</b>	<b>Index</b>	<b>4</b>

## 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]{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
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\totarrayheight{to\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 }
```

```

47 \newenvironment{tabularkv}[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 \end{package}

```

## 3 Installation

### 3.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[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<sub>E</sub>X 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<sub>E</sub>X:

```
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>	→ <code>tex/latex/oberdiek/tabularkv.sty</code>
<code>tabularkv.pdf</code>	→ <code>doc/latex/oberdiek/tabularkv.pdf</code>
<code>tabularkv-example.tex</code>	→ <code>doc/latex/oberdiek/tabularkv-example.tex</code>
<code>tabularkv.dtx</code>	→ <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`.

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<sup>1</sup>[CTAN:pkg/tabularkv](#)

### 3.4 Refresh file name databases

If your  $\text{\TeX}$  distribution ( $\text{\TeX}$  Live,  $\text{mik}\text{\TeX}$ , ...) relies on file name databases, you must refresh these. For example,  $\text{\TeX}$  Live users run `texhash` or `mktextlsr`.

### 3.5 Some details for the interested

**Unpacking with  $\text{\LaTeX}$ .** The `.dtx` chooses its action depending on the format:

**plain  $\text{\TeX}$ :** Run `docstrip` and extract the files.

**$\text{\LaTeX}$ :** Generate the documentation.

If you insist on using  $\text{\LaTeX}$  for `docstrip` (really, `docstrip` does not need  $\text{\LaTeX}$ ), 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 `pdf $\text{\LaTeX}$` :

```
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

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