

# The **tabularkv** package

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## 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.

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 [2006/02/20 v1.1 Key value interface for tabular parameters (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@oarrayheight{\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 }
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 }
```

## 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  $\text{\TeX}$  Files” ([CTAN:tds/tds.pdf](#)). 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
```

**Script installation.** Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

### 3.3 Package installation

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

```
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>         | → <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`.

### 3.4 Refresh file name databases

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

---

<sup>1</sup><http://ftp.ctan.org/tex-archive/>

### 3.5 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  $\text{\LaTeX}$ .** 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.

## 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                               | B   |
|---------------------------------------|---|
| <code>\@car</code> ..... 45           | <code>\begin</code> ..... 5, 7                |
| <code>\@empty</code> ..... 28, 29, 30 |   |
| <code>\@nameuse</code> ..... 49, 54   | D   |
| <code>\@nil</code> ..... 45           | <code>\define@key</code> ..... 32, 36, 40, 44 |
| <code>\@toarrayheight</code> ..... 34 | <code>\dimen@</code> ..... 33, 34             |
| <code>\@</code> ..... 12, 14, 16      | <code>\documentclass</code> ..... 2           |

|                               |        |                              |                    |
|-------------------------------|--------|------------------------------|--------------------|
| <b>E</b>                      |        | <b>R</b>                     |                    |
| <code>\end</code>             | 17, 19 | <code>\RequirePackage</code> | 25, 26             |
| <code>\extracolsep</code>     | 11     | <b>S</b>                     |                    |
| <b>F</b>                      |        | <code>\setkeys</code>        | 48                 |
| <code>\fbox</code>            | 6      | <code>\setlength</code>      | 33                 |
| <code>\fill</code>            | 11     | <b>T</b>                     |                    |
| <b>M</b>                      |        | <code>\tabKV@star@x</code>   | 28, 38, 42, 50, 54 |
| <code>\multicolumn</code>     | 14     | <code>\tabKV@valign</code>   | 30, 45, 52         |
| <b>N</b>                      |        | <code>\tabKV@width</code>    | 29, 37, 41, 52     |
| <code>\NeedsTeXFormat</code>  | 22     | <code>\the</code>            | 34                 |
| <code>\newenvironment</code>  | 47     | <b>U</b>                     |                    |
| <code>\noalign</code>         | 13, 15 | <code>\usepackage</code>     | 3                  |
| <b>P</b>                      |        | <b>V</b>                     |                    |
| <code>\ProvidesPackage</code> | 23     | <code>\vfill</code>          | 13, 15             |