

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

```
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):

```
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  $\TeX$  distribution (te $\TeX$ , mik $\TeX$ , ...) relies on file name databases, you must refresh these. For example, te $\TeX$  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 L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain T<sub>E</sub>X:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for `docstrip` (really, `docstrip` does not need L<sup>A</sup>T<sub>E</sub>X), 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<sup>A</sup>T<sub>E</sub>X:

```
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; plain numbers 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     |                                   |                |
| <code>\@nil</code> .....           | 45         |                                   |                |
| <code>\@toarrayheight</code> ..... | 34         |                                   |                |
| <code>\@</code> .....              | 12, 14, 16 |                                   |                |
|                                    |            | D                                 |                |
|                                    |            | <code>\define@key</code> .....    | 32, 36, 40, 44 |
|                                    |            | <code>\dimen@</code> .....        | 33, 34         |
|                                    |            | <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             |