

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 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\tarrayheight{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 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: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 T_EX:

```
tex tabularkv.dtx
```

¹<http://ftp.ctan.org/tex-archive/>

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 $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` users run `texhash` or `mktxlsr`.

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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), 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 `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

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

4 Catalogue

The following XML file can be used as source for the **TeX Catalogue**. The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `tabularkv.xml`.

```

57 <*catalogue>
58 <?xml version='1.0' encoding='us-ascii'?>
59 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
60 <entry datestamp='$Date$' modifier='$Author$' id='tabularkv'>
61   <name>tabularkv</name>
62   <caption>Tabular environments with key-value interface.</caption>
63   <authorref id='auth:oberdiek'>
64     <copyright owner='Heiko Oberdiek' year='2005,2006'>
65       <license type='lppl1.3'>
66         <version number='1.1'>
67           <description>
68             The tabularkv package creates an environment <tt>tabularkv</tt>, whose
69             arguments are specified in key-value form. The arguments chosen
70             determine which other type of tabular is to be used (whether
71             standard LaTeX ones, or environments from the
72             <xref refid='tabularx'>tabularx</xref> or the
73             <xref refid='tabularht'>tabularx</xref> package).
74           <p/>
75           The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
76         </description>
77         <documentation details='Package documentation'
78           href='ctan:/macros/latex/contrib/oberdiek/tabularkv.pdf'>
79           <ctan file='true' path='/macros/latex/contrib/oberdiek/tabularkv.dtx'>
80             <miktex location='oberdiek'>
81               <texlive location='oberdiek'>
82                 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'>
83             </entry>
84 </catalogue>

```

5 History

[2005/09/22 v1.0]

- First public version.

[2006/02/20 v1.1]

- DTX framework.
- Code is not changed.

6 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.

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