

# CTAN:macros/latex/contrib/oberdiek/

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## 1 Overview

<b>aliascnt</b> (contents)	Alias counters	[ <a href="#">ctan</a> ]
<b>bmpsize</b> (contents)	Extract size/resolution from bitmap files	[ <a href="#">ctan</a> ]
<b>centernot</b> (contents)	Centers the not symbol horizontally	[ <a href="#">ctan</a> ]
<b>chemarr</b> (contents)	Arrows for chemical reactions	[ <a href="#">ctan</a> ]
<b>classlist</b> (contents)	Record classes used in a document	[ <a href="#">ctan</a> ]
<b>colonequals</b> (contents)	Colon equals symbols	[ <a href="#">ctan</a> ]
<b>dvipscol</b> (contents)	Alter the usage of the dvips color stack	[ <a href="#">ctan</a> ]
<b>engord</b> (contents)	Provides English ordinal numbers	[ <a href="#">ctan</a> ]
<b>enparen</b> (contents)	Parentheses nesting	[ <a href="#">ctan</a> ]
<b>eolgrab</b> (contents)	Catch arguments delimited by end of line	[ <a href="#">ctan</a> ]
<b>fibnum</b> (contents)	Fibonacci numbers	[ <a href="#">ctan</a> ]

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

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<b>stackrel</b> (contents)	Adding subscript option to stackrel	<a href="#">[ctan]</a>
<b>stampinclude</b> (contents)	Include files based on time stamps	<a href="#">[ctan]</a>
<b>tabularht</b> (contents)	Tabular with height specified	<a href="#">[ctan]</a>
<b>tabularkv</b> (contents)	Tabular with key value interface	<a href="#">[ctan]</a>
<b>telprint</b> (contents)	Format German phone numbers	<a href="#">[ctan]</a>
<b>thepdfnumber</b> (contents)	Print PDF numbers with minimal digits	<a href="#">[ctan]</a>
<b>twoopt</b> (contents)	Definitions with two optional arguments	<a href="#">[ctan]</a>

## 2 Packages

### The aliascnt package

#### Abstract

Package `aliascnt` introduces *alias counters* that share the same counter register and clear list.

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<b>6</b>	<b>History</b>	<b>5</b>
	[2006/02/20 v1.0] . . . . .	5
	[2006/08/16 v1.1] . . . . .	5
	[2006/09/25 v1.2] . . . . .	5
	[2009/09/08 v1.3] . . . . .	5
	[2016/05/16 v1.4] . . . . .	6
	[2018/09/07 v1.5] . . . . .	6
<b>7</b>	<b>Index</b>	<b>6</b>

# The bmpsize package

## Abstract

Package `bmpsize` analyzes bitmap images to extract size and resolution data. It adds this feature to the graphics package that now do not need separate bounding box files for bitmap images. Additionally the implementation for the inclusion of bitmap images in some drivers of package `graphicx` are rewritten to support options `viewport`, `trim` and `clip`.

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[2007/05/01 v1.3]	. . . . .	62
[2007/11/11 v1.4]	. . . . .	62
[2008/08/11 v1.5]	. . . . .	63
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<b>6</b>	<b>Index</b>	<b>63</b>

# The centernot package

## Abstract

This package provides `\centernot` that prints the symbol `\not` on the following argument. Unlike `\not` the symbol is horizontally centered.

<b>1</b>	<b>User interface</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>2</b>
3.1	Download . . . . .	2
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
<b>4</b>	<b>History</b>	<b>4</b>
[2006/12/02 v1.0]	. . . . .	4
[2007/05/31 v1.1]	. . . . .	4
[2010/03/29 v1.2]	. . . . .	4
[2011/07/11 v1.3]	. . . . .	4
[2016/05/16 v1.4]	. . . . .	4
<b>5</b>	<b>Index</b>	<b>4</b>

# The chemarr package

## Abstract

Very often chemists need a longer version of reaction arrows (`\rightleftharpoons`) with the possibility to put text above and below. Analogous to `amsmath`'s `\xrightarrow` and `\xleftarrow` this package provides the macro `\xrightleftharpoons`.

<b>1</b>	<b>Usage</b>	<b>1</b>
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<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>3</b>
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3.2	Bundle installation . . . . .	3
3.3	Package installation . . . . .	3
3.4	Refresh file name databases . . . . .	4
3.5	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>4</b>
	[2001/06/21 v1.0] . . . . .	4
	[2001/06/22 v1.1] . . . . .	4
	[2006/02/20 v1.2] . . . . .	5
	[2016/05/16 v1.3] . . . . .	5
<b>5</b>	<b>Index</b>	<b>5</b>



# The classlist package

## Abstract

This package records the loaded classes and stores them in a list.

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1.1	Background . . . . .	1
1.2	Usage . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
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3.1	Download . . . . .	4
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3.5	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>6</b>
	[2005/06/19 v1.0] . . . . .	6
	[2005/06/19 v1.1] . . . . .	6
	[2006/02/20 v1.2] . . . . .	6
	[2008/08/11 v1.3] . . . . .	6
	[2011/10/17 v1.4] . . . . .	6
	[2016/05/16 v1.5] . . . . .	6
<b>5</b>	<b>Index</b>	<b>6</b>

# The colonequals package

## Abstract

Package colonequals defines poor man’s symbols for math relation symbols such as “colon equals”. The colon is centered around the horizontal math axis.

<b>1</b>	<b>User interface</b>	<b>1</b>
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1.2	Symbols . . . . .	2
1.3	Fine tuning . . . . .	3
1.3.1	Example . . . . .	3
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	[2006/08/01 v1.0] . . . . .	6
	[2016/05/16 v1.1] . . . . .	7
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# The dvipscol package

## Abstract

Color support for dvips in `dvips.def` involves the color stack of dvips. The package tries to remove unnecessary uses of the stack to avoid the error “out of color stack space”.

<b>1</b>	<b>Documentation</b>	<b>1</b>
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1.2	Usage . . . . .	2
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[2000/08/31 v1.0]	. . . . .	4
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# The engord package

## Abstract

The package generates the suffix of English ordinal numbers. It can be used with plain and L<sup>A</sup>T<sub>E</sub>X formats.

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	[2003/04/28 v1.1] . . . . .	9
	[2006/02/20 v1.2] . . . . .	10
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	[2007/04/26 v1.4] . . . . .	10
	[2007/09/09 v1.5] . . . . .	10
	[2007/09/20 v1.6] . . . . .	10
	[2008/08/11 v1.7] . . . . .	10
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	[2016/05/16 v1.9] . . . . .	10
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# The enparen package

## Abstract

The package defines macros to set parentheses that automatically change the symbols from inner to outer fences.

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# The eolgrab package

## Abstract

This package implements a generic argument grabber to catch an argument that is delimited by the line end.

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<b>5</b>	<b>History</b>	<b>10</b>
	[2011/01/12 v1.0] . . . . .	10
	[2016/05/16 v1.1] . . . . .	10
<b>6</b>	<b>Index</b>	<b>10</b>

# The fibnum package

## Abstract

The package `fibnum` provides expandable fibonacci numbers for both  $\text{\LaTeX}$  and plain  $\text{\TeX}$ .

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<b>5</b>	<b>History</b>	<b>11</b>
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	[2016/05/16 v1.1] . . . . .	11
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# The flags package

## Abstract

Package flags allows the setting and clearing of flags in bit fields and converts the bit field into a decimal number. Currently the bit field is limited to 31 bits.

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3.5	Some details for the interested . . . . .	6
<b>4</b>	<b>History</b>	<b>7</b>
[2007/02/18 v0.1]	. . . . .	7
[2007/03/07 v0.2]	. . . . .	7
[2007/03/31 v0.3]	. . . . .	7
[2007/09/30 v0.4]	. . . . .	7
[2016/05/16 v0.5]	. . . . .	7
<b>5</b>	<b>Index</b>	<b>7</b>



# The holtxdoc package

## Abstract

The package is used for the documentation of my packages in DTX format.  
It contains some private macros and setup for my needs. Thus do not use it.  
I have separated the part that may be useful for others in package hypdoc.

<b>1</b>	<b>No usage</b>	<b>2</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Help macros	2
2.2	Font setup for Lua <sup>A</sup> T <sub>E</sub> X	3
2.3	Date	3
2.4	History	3
2.5	Formatting macros	4
2.6	Names	6
2.7	Setup	6
2.7.1	Package doc	6
2.7.2	Page layout	7
<b>3</b>	<b>Installation</b>	<b>7</b>
3.1	Download	7
3.2	Bundle installation	7
3.3	Package installation	7
3.4	Refresh file name databases	8
3.5	Some details for the interested	8
<b>4</b>	<b>History</b>	<b>8</b>
[1999/06/26 v0.3]		8
[2000/08/14 v0.4]		8
[2001/08/27 v0.5]		8
[2001/09/02 v0.6]		9
[2006/06/02 v0.7]		9
[2007/10/21 v0.8]		9
[2007/11/11 v0.9]		9
[2007/12/12 v0.10]		9
[2008/08/11 v0.11]		9
[2009/08/07 v0.12]		9
[2009/12/02 v0.13]		9
[2010/02/03 v0.14]		9
[2010/03/10 v0.15]		9
[2010/04/03 v0.16]		9
[2010/04/08 v0.17]		9
[2010/04/18 v0.18]		9
[2010/04/24 v0.19]		10
[2010/12/03 v0.20]		10
[2011/02/04 v0.21]		10

[2011/11/22 v0.22]	10
[2012/03/07 v0.23]	10
[2012/03/21 v0.24]	10
[2016/05/16 v0.25]	10
[2016/05/16 v0.26]	10
[2016/05/17 v0.27]	10
[2019/07/27 v0.28]	10
[2019/11/12 v0.29]	10
[2019/12/09 v0.30]	10
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# The hopatch package

## Abstract

This packages provides a wrapper to various package hooks provided by other packages or classes, but does not define own hooks.

<b>1</b>	<b>Documentation</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Catcodes and package identification . . . . .	3
2.2	Resources . . . . .	4
2.3	Package patching . . . . .	4
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Download . . . . .	6
3.2	Bundle installation . . . . .	6
3.3	Package installation . . . . .	6
3.4	Refresh file name databases . . . . .	6
3.5	Some details for the interested . . . . .	7
<b>4</b>	<b>References</b>	<b>7</b>
<b>5</b>	<b>History</b>	<b>7</b>
[2011/01/30 v1.0]	. . . . .	7
[2011/06/24 v1.1]	. . . . .	7
[2012/05/28 v1.2]	. . . . .	7
[2016/05/16 v1.3]	. . . . .	8
<b>6</b>	<b>Index</b>	<b>8</b>

# The hypbmsec package

## Abstract

This package expands the syntax of the sectioning commands. If the argument of the sectioning commands isn't usable as outline entry, a replacement for the bookmarks can be given.

<b>1 Usage</b>	<b>2</b>
1.1 Bookmarks restrictions . . . . .	2
1.2 <code>\texorpdfstring</code> . . . . .	2
1.3 Sectioning commands . . . . .	2
1.4 Places for sectioning strings . . . . .	2
1.5 Solution with optional arguments . . . . .	3
1.6 Syntax . . . . .	3
1.6.1 Star form . . . . .	3
1.6.2 Without optional arguments . . . . .	3
1.6.3 One optional argument . . . . .	3
1.6.4 Two optional arguments . . . . .	3
1.6.5 Optional argument in parentheses . . . . .	4
1.7 Without <code>hyperref</code> . . . . .	4
1.8 Protecting parentheses . . . . .	4
<b>2 Implementation</b>	<b>4</b>
<b>3 Installation</b>	<b>7</b>
3.1 Download . . . . .	7
3.2 Bundle installation . . . . .	8
3.3 Package installation . . . . .	8
3.4 Refresh file name databases . . . . .	8
3.5 Some details for the interested . . . . .	8
<b>4 History</b>	<b>9</b>
[1998/11/20 v1.0] . . . . .	9
[1999/04/12 v2.0] . . . . .	9
[2000/03/22 v2.1] . . . . .	9
[2006/02/20 v2.2] . . . . .	9
[2007/03/05 v2.3] . . . . .	9
[2007/04/11 v2.4] . . . . .	9
[2016/05/16 v2.5] . . . . .	9
<b>5 Index</b>	<b>9</b>

# The hypcap package

## Abstract

This package tries a solution of the problem with hyperref, that links to floats points below the caption and not at the beginning of the float. Therefore this package divides the task into two part, the link setting with `\capstart` or automatically at the beginning of a float and the rest in the `\caption` command.

<b>1</b>	<b>Usage</b>	<b>2</b>
1.1	Package options . . . . .	2
1.2	User commands . . . . .	2
1.3	Limitations . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
<b>3</b>	<b>Installation</b>	<b>5</b>
3.1	Download . . . . .	5
3.2	Bundle installation . . . . .	6
3.3	Package installation . . . . .	6
3.4	Refresh file name databases . . . . .	6
3.5	Some details for the interested . . . . .	6
<b>4</b>	<b>History</b>	<b>7</b>
[1999/02/13 v1.0]	. . . . .	7
[2000/08/14 v1.1]	. . . . .	7
[2000/09/07 v1.2]	. . . . .	7
[2001/08/27 v1.3]	. . . . .	7
[2001/09/06 v1.4]	. . . . .	7
[2006/02/20 v1.5]	. . . . .	7
[2007/02/19 v1.6]	. . . . .	7
[2007/04/09 v1.7]	. . . . .	7
[2008/04/14 v1.8]	. . . . .	8
[2008/08/11 v1.9]	. . . . .	8
[2008/09/08 v1.10]	. . . . .	8
[2011/02/16 v1.11]	. . . . .	8
[2016/05/16 v1.12]	. . . . .	8
<b>5</b>	<b>Index</b>	<b>8</b>

# The hypdestopt package

## Abstract

Package `hypdestopt` supports `hyperref`'s `pdfTeX` driver. It removes unnecessary destinations and shortens the destination names or uses numbered destinations to get smaller PDF files.

<b>1</b>	<b>User interface</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Requirements . . . . .	2
1.3	Use . . . . .	2
1.4	Limitations . . . . .	3
1.5	Future . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Identification . . . . .	3
2.2	Options . . . . .	3
2.2.1	Option <code>verbose</code> . . . . .	3
2.2.2	Options <code>num</code> and <code>name</code> . . . . .	4
2.3	Check requirements . . . . .	4
2.4	Preamble for auxiliary file . . . . .	5
2.5	Generation of destination names . . . . .	5
2.6	Assign destination names . . . . .	6
2.7	Redefinition of <code>hyperref</code> 's hooks . . . . .	7
2.7.1	Destination setting . . . . .	7
2.7.2	Links . . . . .	8
2.7.3	Outlines of package <code>hyperref</code> . . . . .	8
2.7.4	Outlines of package <code>bookmark</code> . . . . .	9
<b>3</b>	<b>Installation</b>	<b>10</b>
3.1	Download . . . . .	10
3.2	Bundle installation . . . . .	10
3.3	Package installation . . . . .	10
3.4	Refresh file name databases . . . . .	10
3.5	Some details for the interested . . . . .	11
<b>4</b>	<b>References</b>	<b>11</b>
<b>5</b>	<b>History</b>	<b>11</b>
	[2006/06/01 v1.0] . . . . .	11
	[2006/06/01 v2.0] . . . . .	11
	[2007/11/11 v2.1] . . . . .	11
	[2008/08/08 v2.2] . . . . .	11
	[2011/05/13 v2.3] . . . . .	12
	[2016/05/16 v2.4] . . . . .	12
	[2016/05/21 v2.5] . . . . .	12
<b>6</b>	<b>Index</b>	<b>12</b>

# The hypdoc package

## Abstract

This package adds hyper features to the package `doc` that is used in the documentation system of  $\text{\LaTeX} 2_{\epsilon}$ . Bookmarks are added and references are linked as far as possible.

<b>1</b>	<b>Features</b>	<b>2</b>
<b>2</b>	<b>Usage</b>	<b>3</b>
2.1	Options . . . . .	3
2.2	Simple example . . . . .	3
2.3	Example <code>source2e.tex</code> . . . . .	4
<b>3</b>	<b>Implementation</b>	<b>4</b>
3.1	Options . . . . .	4
3.2	Package loading . . . . .	4
3.2.1	Patch for bug latex/4096 . . . . .	5
3.3	Bookmarks . . . . .	6
3.4	<code>\tableofcontents</code> . . . . .	6
3.5	<code>\listoffigures</code> . . . . .	7
3.6	<code>\listoftables</code> . . . . .	7
3.7	<code>\thebibliography</code> . . . . .	7
3.8	<code>\theindex</code> . . . . .	8
3.9	<code>\theglossary</code> . . . . .	9
3.10	Index . . . . .	10
3.11	<code>\PrintDescribeMacro</code> . . . . .	12
3.12	<code>\PrintMacroName</code> . . . . .	12
3.13	<code>\theCodelineNo</code> . . . . .	13
3.14	<code>\SpecialUsageIndex</code> . . . . .	13
3.15	<code>\autoindex</code> . . . . .	13
3.16	<code>\SpecialEnvIndex</code> . . . . .	14
3.17	<code>\SortIndex</code> . . . . .	14
3.18	<code>\@wrglossary</code> . . . . .	14
3.19	<code>\MacroIndent</code> . . . . .	15
<b>4</b>	<b>Installation</b>	<b>15</b>
4.1	Download . . . . .	15
4.2	Bundle installation . . . . .	15
4.3	Package installation . . . . .	15
4.4	Refresh file name databases . . . . .	16
4.5	Some details for the interested . . . . .	16
<b>5</b>	<b>History</b>	<b>16</b>
	[2002/05/10 v1.0] . . . . .	16
	[2006/02/20 v1.1] . . . . .	17
	[2006/04/27 v1.2] . . . . .	17

[2006/06/01 v1.3]	17
[2006/06/02 v1.4]	17
[2007/04/11 v1.5]	17
[2007/11/12 v1.6]	17
[2009/12/10 v1.7]	17
[2010/02/03 v1.8]	17
[2010/03/26 v1.9]	17
[2011/05/05 v1.10]	17
[2011/08/19 v1.11]	17
[2016/05/16 v1.12]	18
[2016/10/02 v1.13]	18
[2018/09/07 v1.14]	18
<b>6 Index</b>	<b>18</b>



# The hypgotoe package

## Abstract

Experimental package for links to embedded files.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
1.2	User interface . . . . .	2
1.3	Example . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Identification . . . . .	3
2.2	Load packages . . . . .	3
2.3	Color support . . . . .	4
2.4	Extend \href . . . . .	4
2.5	Implement gotoe action . . . . .	4
2.6	Keys for gotoe action . . . . .	5
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Download . . . . .	6
3.2	Bundle installation . . . . .	6
3.3	Package installation . . . . .	6
3.4	Refresh file name databases . . . . .	7
3.5	Some details for the interested . . . . .	7
<b>4</b>	<b>References</b>	<b>7</b>
<b>5</b>	<b>History</b>	<b>7</b>
	[2007/10/30 v0.1] . . . . .	7
	[2016/05/16 v0.2] . . . . .	7
<b>6</b>	<b>Index</b>	<b>7</b>

# The hyphsubst package

## Abstract

A T<sub>E</sub>X format file may include alternative hyphenation patterns for a language with a different name. If the naming convention follows `babel`'s rules, then the hyphenation patterns for a language can be replaced by the alternative hyphenation patterns, provided in the format file.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	In short . . . . .	1
1.2	Longer version . . . . .	2
1.3	L <sup>A</sup> T <sub>E</sub> X . . . . .	3
1.4	plain T <sub>E</sub> X . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Package . . . . .	5
<b>3</b>	<b>Installation</b>	<b>7</b>
3.1	Download . . . . .	7
3.2	Bundle installation . . . . .	7
3.3	Package installation . . . . .	7
3.4	Refresh file name databases . . . . .	8
3.5	Some details for the interested . . . . .	8
<b>4</b>	<b>History</b>	<b>8</b>
	[2008/06/07 v0.1] . . . . .	8
	[2008/06/09 v0.2] . . . . .	8
	[2016/05/16 v0.3] . . . . .	8
<b>5</b>	<b>Index</b>	<b>8</b>

# The ifdraft package

## Abstract

The package provides an interface for selecting code depending on the options draft and final.

<b>1</b>	<b>Usage</b>	<b>1</b>
1.1	Package loading . . . . .	1
1.2	User macros . . . . .	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 . . . . .	4
3.3	Package installation . . . . .	4
3.4	Refresh file name databases . . . . .	4
3.5	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>5</b>
	[1999/12/28 v1.0] . . . . .	5
	[2005/10/05 v1.1] . . . . .	5
	[2006/02/20 v1.2] . . . . .	5
	[2008/08/11 v1.3] . . . . .	5
	[2016/05/16 v1.4] . . . . .	5
<b>5</b>	<b>Index</b>	<b>5</b>

# The iflang package

## Abstract

This package provides expandible checks for the current language based on macro `\language` or hyphenation patterns.

<b>1</b>	<b>Documentation</b>	<b>2</b>
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Tools . . . . .	5
2.2.1	Provide some basic macros of L <sup>A</sup> T <sub>E</sub> X . . . . .	5
2.2.2	Expandible existence check for macros . . . . .	5
2.2.3	Macros for messages . . . . .	5
2.2.4	Support for <code>etex.src</code> . . . . .	6
2.3	<code>\IfLanguagePatterns</code> . . . . .	7
2.4	<code>\IfLanguageName</code> . . . . .	7
2.5	Check plausibility of <code>\language</code> . . . . .	8
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Download . . . . .	8
3.2	Bundle installation . . . . .	9
3.3	Package installation . . . . .	9
3.4	Refresh file name databases . . . . .	9
3.5	Some details for the interested . . . . .	9
<b>4</b>	<b>Acknowledgement</b>	<b>10</b>
<b>5</b>	<b>History</b>	<b>10</b>
	[2007/04/10 v1.0] . . . . .	10
	[2007/04/11 v1.1] . . . . .	10
	[2007/04/12 v1.2] . . . . .	10
	[2007/04/26 v1.3] . . . . .	10
	[2007/09/09 v1.4] . . . . .	10
	[2007/11/11 v1.5] . . . . .	10
	[2016/05/16 v1.6] . . . . .	10
	[2018/01/21 v1.7] . . . . .	11
<b>6</b>	<b>Index</b>	<b>11</b>

# The pagegrid package

## Abstract

The L<sup>A</sup>T<sub>E</sub>X package prints a page grid in the background.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Options	2
1.1.1	Options <b>enable</b> , <b>disable</b>	2
1.1.2	Grid origins	2
1.1.3	Grid unit	2
1.1.4	Color options	3
1.1.5	Arrow options	3
1.1.6	Miscellaneous options	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
<b>3</b>	<b>Installation</b>	<b>10</b>
3.1	Download	10
3.2	Bundle installation	10
3.3	Package installation	11
3.4	Refresh file name databases	11
3.5	Some details for the interested	11
<b>4</b>	<b>Acknowledgement</b>	<b>11</b>
<b>5</b>	<b>History</b>	<b>12</b>
[2009/11/06 v1.0]		12
[2009/11/06 v1.1]		12
[2009/12/02 v1.2]		12
[2009/12/03 v1.3]		12
[2009/12/04 v1.4]		12
[2016/05/16 v1.5]		12
<b>6</b>	<b>Index</b>	<b>12</b>

# The pagesel package

## Abstract

Single pages or page areas can be selected for output.

<b>1 Usage</b>	<b>2</b>
1.1 Page selecting	2
1.1.1 Options for selecting pages	2
1.1.2 Examples	2
1.2 Auxiliary files	3
1.2.1 Options for handling auxiliary files	3
1.2.2 Package <code>hyperref</code>	3
<b>2 Implementation</b>	<b>3</b>
2.1 Package	3
2.2 <code>AtBeginDvi</code> hook support	7
<b>3 Installation</b>	<b>8</b>
3.1 Download	8
3.2 Bundle installation	8
3.3 Package installation	8
3.4 Refresh file name databases	8
3.5 Some details for the interested	8
<b>4 History</b>	<b>9</b>
[1999/03/01 v0.9]	9
[1999/04/05 v1.0]	9
[1999/04/13 v1.1]	9
[2003/06/05 v1.2]	9
[2006/02/20 v1.3]	10
[2006/03/02 v1.4]	10
[2006/03/07 v1.5]	10
[2007/04/11 v1.6]	10
[2007/04/12 v1.7]	10
[2008/08/11 v1.8]	10
[2016/05/16 v1.9]	10
<b>5 Index</b>	<b>10</b>

# The pdfcol package

## Abstract

Since version 1.40 pdfT<sub>E</sub>X supports color stacks. The driver file `pdftex.def` for package `color` defines and uses a main color stack since version v0.04b. Package `pdfcol` is intended for package writers. It defines macros for setting and maintaining new color stacks.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Requirements . . . . .	2
1.2	Interface . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	Check requirements . . . . .	5
2.3.1	Check package <code>luacolor</code> . . . . .	5
2.3.2	Check PDF mode . . . . .	5
2.3.3	Check version of pdfT <sub>E</sub> X . . . . .	6
2.3.4	Check <code>pdftex.def</code> . . . . .	6
2.4	Enabled interface macros . . . . .	7
2.5	Disabled interface macros . . . . .	8
<b>3</b>	<b>Installation</b>	<b>9</b>
3.1	Download . . . . .	9
3.2	Bundle installation . . . . .	10
3.3	Package installation . . . . .	10
3.4	Refresh file name databases . . . . .	10
3.5	Some details for the interested . . . . .	10
<b>4</b>	<b>History</b>	<b>11</b>
	[2007/09/09 v1.0] . . . . .	11
	[2007/12/09 v1.1] . . . . .	11
	[2007/12/12 v1.2] . . . . .	11
	[2016/05/16 v1.3] . . . . .	11
	[2016/05/17 v1.4] . . . . .	11
	[2018/11/01 v1.5] . . . . .	11
<b>5</b>	<b>Index</b>	<b>11</b>

# The pdfcolfoot package

## Abstract

Since version 1.40 pdfTeX supports several color stacks. This package uses a separate color stack for footnotes that can break across pages.

<b>1</b>	<b>User interface</b>	<b>2</b>
1.1	Other packages or classes . . . . .	2
<b>2</b>	<b>Interface for package or class writers</b>	<b>2</b>
2.1	Macro \pdfcolfoot@switch . . . . .	2
2.2	Macro \pdfcolfoot@current . . . . .	2
<b>3</b>	<b>Implementation</b>	<b>3</b>
3.1	Identification . . . . .	3
3.2	Load package pdfcol . . . . .	3
3.3	Color stack for footnotes . . . . .	3
3.4	Patch \@makefntext . . . . .	3
3.5	Patch \@makecol . . . . .	4
<b>4</b>	<b>Installation</b>	<b>6</b>
4.1	Download . . . . .	6
4.2	Bundle installation . . . . .	6
4.3	Package installation . . . . .	6
4.4	Refresh file name databases . . . . .	7
4.5	Some details for the interested . . . . .	7
<b>5</b>	<b>References</b>	<b>7</b>
<b>6</b>	<b>History</b>	<b>7</b>
	[2007/01/08 v1.0] . . . . .	7
	[2007/09/09 v1.1] . . . . .	8
	[2012/01/02 v1.2] . . . . .	8
	[2016/05/16 v1.3] . . . . .	8
<b>7</b>	<b>Index</b>	<b>8</b>



# The pdfcolparallel package

## Abstract

This packages fixes bugs in `parallel` and improves color support by using several color stacks that are provided by pdfTeX since version 1.40.

<b>1</b>	<b>Usage</b>	<b>1</b>
1.1	Option <code>rulebetweencolor</code> . . . . .	2
1.2	Future . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Load and fix package <code>parallel</code> . . . . .	2
2.3	Color stack support . . . . .	7
2.4	Redefinitions . . . . .	8
<b>3</b>	<b>Installation</b>	<b>11</b>
3.1	Download . . . . .	11
3.2	Bundle installation . . . . .	11
3.3	Package installation . . . . .	11
3.4	Refresh file name databases . . . . .	11
3.5	Some details for the interested . . . . .	12
<b>4</b>	<b>References</b>	<b>12</b>
<b>5</b>	<b>History</b>	<b>12</b>
	[2007/09/09 v1.0] . . . . .	12
	[2007/12/12 v1.1] . . . . .	12
	[2008/08/11 v1.2] . . . . .	12
	[2010/01/11 v1.3] . . . . .	13
	[2016/05/16 v1.4] . . . . .	13
<b>6</b>	<b>Index</b>	<b>13</b>

# The pdfcolparcolumns package

## Abstract

Since version 1.40 pdfTeX supports several color stacks. This package uses them to fix color problems in package parcolumns.

<b>1 Usage</b>	<b>2</b>
1.1 Option <code>rulebetweencolor</code>	2
1.2 Future	2
<b>2 Implementation</b>	<b>2</b>
2.1 Identification	2
2.2 Load packages	2
2.2.1 Package <code>parcolumns</code>	2
2.2.2 Package <code>pdfcol</code>	3
2.2.3 Package <code>infwarerr</code>	3
2.3 Color stack macros	3
2.4 Patches	3
2.4.1 Init stacks	3
2.4.2 Switch stack	4
2.4.3 Set current stack color	4
<b>3 Installation</b>	<b>6</b>
3.1 Download	6
3.2 Bundle installation	6
3.3 Package installation	6
3.4 Refresh file name databases	7
3.5 Some details for the interested	7
<b>4 References</b>	<b>7</b>
<b>5 History</b>	<b>8</b>
[2007/07/26 v1.0]	8
[2007/09/09 v1.1]	8
[2008/08/11 v1.2]	8
[2010/01/11 v1.3]	8
[2016/05/16 v1.4]	8
<b>6 Index</b>	<b>8</b>

# The pdfcrypt package

## Abstract

This package supports the setting of pdf encryption options for V<sub>T</sub>E<sub>X</sub> and some older versions of pdfT<sub>E</sub>X.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Alternatives . . . . .	2
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1.2.1	Special characters . . . . .	3
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1.2.3	Configuration file . . . . .	3
1.2.4	Support for plain T <sub>E</sub> X . . . . .	3
1.3	Hints for pdfT <sub>E</sub> X . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
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2.2	Package Identification and checks . . . . .	5
2.3	Driver detection . . . . .	6
2.4	Load package keyval . . . . .	6
2.5	Define options . . . . .	7
2.6	support of configuration file . . . . .	12
2.7	Package options . . . . .	12
<b>3</b>	<b>Installation</b>	<b>12</b>
3.1	Download . . . . .	12
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3.3	Package installation . . . . .	13
3.4	Refresh file name databases . . . . .	13
3.5	Some details for the interested . . . . .	13
<b>4</b>	<b>History</b>	<b>14</b>
	[2001/04/02 v0.1] . . . . .	14
	[2001/07/19 v0.2] . . . . .	14
	[2001/07/19 v0.3] . . . . .	14
	[2001/07/19 v0.4] . . . . .	14
	[2001/08/05 v0.5] . . . . .	14
	[2001/08/09 v0.6] . . . . .	14
	[2001/10/28 v0.7] . . . . .	14
	[2006/02/20 v0.8] . . . . .	15
	[2007/04/11 v0.9] . . . . .	15
	[2007/04/26 v1.0] . . . . .	15
	[2016/05/16 v1.1] . . . . .	15
<b>5</b>	<b>Index</b>	<b>15</b>

# The pdfrender package

## Abstract

The PDF format has some graphics parameter like line width or text rendering mode. This package provides an interface for setting these parameters.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Usage . . . . .	2
1.2	Macros . . . . .	2
1.3	Parameters . . . . .	2
1.3.1	Details . . . . .	3
1.4	Color stack . . . . .	4
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Look for pdfTeX, its mode and features . . . . .	6
2.2	Enable color support of L <sup>A</sup> T <sub>E</sub> X . . . . .	8
2.3	Hook into \normalcolor . . . . .	8
2.4	Declare and setup parameters . . . . .	14
2.5	Fill and stroke color support . . . . .	15
<b>3</b>	<b>Installation</b>	<b>19</b>
3.1	Download . . . . .	19
3.2	Bundle installation . . . . .	19
3.3	Package installation . . . . .	20
3.4	Refresh file name databases . . . . .	20
3.5	Some details for the interested . . . . .	20
<b>4</b>	<b>Acknowledgement</b>	<b>20</b>
<b>5</b>	<b>References</b>	<b>21</b>
<b>6</b>	<b>History</b>	<b>21</b>
	[2010/01/26 v1.0] . . . . .	21
	[2010/01/27 v1.1] . . . . .	21
	[2010/01/28 v1.2] . . . . .	21
	[2016/05/14 v1.3] . . . . .	21
	[2016/05/17 v1.4] . . . . .	21
	[2018/11/01 v1.5] . . . . .	21
<b>7</b>	<b>Index</b>	<b>22</b>

# The `protecteddef` package

## Abstract

This package provides `\ProtectedDef` for defining robust macros for both plain `TEX` and `LATEX`. First `ε-TEX`'s `\protected` is tried, then `LATEX`'s `\DeclareRobustCommand` is used. Otherwise the macro is not made robust.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	The <code>L<sup>A</sup>T<sub>E</sub>X</code> 's way . . . . .	2
1.2	The <code>ε-T<sub>E</sub>X</code> 's way . . . . .	2
1.3	The way of this package . . . . .	2
1.4	Usage . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	4
2.3	Resources . . . . .	4
<b>3</b>	<b>Installation</b>	<b>7</b>
3.1	Download . . . . .	7
3.2	Bundle installation . . . . .	7
3.3	Package installation . . . . .	7
3.4	Refresh file name databases . . . . .	7
3.5	Some details for the interested . . . . .	8
<b>4</b>	<b>History</b>	<b>8</b>
	[2011/01/31 v1.0] . . . . .	8
	[2016/05/16 v1.1] . . . . .	8
<b>5</b>	<b>Index</b>	<b>8</b>

# The **resizegather** package

## Abstract

Equations that are too large are resized to fit the available space. The environment `gather` of package `amsmath` is supported. Also the environments `equation` and `displaymath` are redefined using `gather` and its starred version.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Options . . . . .	2
1.2	Options for packages <code>amsmath</code> or <code>graphics</code> . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Download . . . . .	8
3.2	Bundle installation . . . . .	8
3.3	Package installation . . . . .	9
3.4	Refresh file name databases . . . . .	9
3.5	Some details for the interested . . . . .	9
<b>4</b>	<b>Acknowledgement</b>	<b>9</b>
<b>5</b>	<b>History</b>	<b>10</b>
	[2009/12/04 v1.0] . . . . .	10
	[2009/12/05 v1.1] . . . . .	10
	[2010/03/01 v1.2] . . . . .	10
	[2016/05/16 v1.3] . . . . .	10
<b>6</b>	<b>Index</b>	<b>10</b>

# The rotchiffre package

## Abstract

This package implements chiffres ROT13 with its variants ROT5, ROT18, and ROT47.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Motivation . . . . .	2
1.2	Usage . . . . .	2
1.2.1	Examples . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	Loading resources . . . . .	5
2.4	\EdefRot as robust macro . . . . .	5
2.5	Set \lccode on a range of characters . . . . .	6
2.6	Chiffres . . . . .	7
2.6.1	ROT13 . . . . .	7
2.6.2	ROT5 . . . . .	7
2.6.3	ROT18 . . . . .	7
2.6.4	ROT47 . . . . .	7
2.7	\RotCh@rot with big char support . . . . .	7
2.8	\RotCh@rot without big char support . . . . .	9
<b>3</b>	<b>Installation</b>	<b>9</b>
3.1	Download . . . . .	9
3.2	Bundle installation . . . . .	9
3.3	Package installation . . . . .	9
3.4	Refresh file name databases . . . . .	10
3.5	Some details for the interested . . . . .	10
<b>4</b>	<b>References</b>	<b>10</b>
<b>5</b>	<b>History</b>	<b>11</b>
	[2010/11/12 v1.0] . . . . .	11
	[2016/05/16 v1.1] . . . . .	11
<b>6</b>	<b>Index</b>	<b>11</b>

## The `scrindex` package

### Abstract

This package redefines environment ‘theindex’ of package `index`, if a class from KOMA-Script is loaded. Also option `idxtotoc` is supported. Index preambles can be given either by means of package `index` or via the interface provided by KOMA-Script.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Usage	2
1.2	Preambles	2
1.2.1	Class <code>scrartcl</code>	2
1.2.2	Classes <code>scrreprt</code> and <code>scrbook</code>	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Download	6
3.2	Bundle installation	6
3.3	Package installation	7
3.4	Refresh file name databases	7
3.5	Some details for the interested	7
<b>4</b>	<b>History</b>	<b>8</b>
[2008/07/07 v1.0]		8
[2008/08/11 v1.1]		8
[2016/05/16 v1.2]		8
<b>5</b>	<b>Index</b>	<b>8</b>



# The `setouterhbox` package

## Abstract

If math stuff is set in an `\hbox`, then TeX performs some optimization and omits the implicate penalties `\binoppenalty` and `\relpenalty`. This package tries to put stuff into an `\hbox` without getting lost of those penalties.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Acknowledgement . . . . .	2
1.3	Usage . . . . .	2
1.4	Option <code>hyperref</code> . . . . .	3
1.5	Example . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Package start stuff . . . . .	4
2.2	Interface macros . . . . .	6
2.3	Main part . . . . .	6
2.4	Environment support . . . . .	8
2.5	Option <code>hyperref</code> . . . . .	9
<b>3</b>	<b>Installation</b>	<b>10</b>
3.1	Download . . . . .	10
3.2	Bundle installation . . . . .	10
3.3	Package installation . . . . .	10
3.4	Refresh file name databases . . . . .	10
3.5	Some details for the interested . . . . .	11
<b>4</b>	<b>References</b>	<b>11</b>
<b>5</b>	<b>History</b>	<b>11</b>
	[2005/10/05 v1.0] . . . . .	11
	[2005/10/07 v1.1] . . . . .	11
	[2005/10/18 v1.2] . . . . .	12
	[2006/02/12 v1.3] . . . . .	12
	[2006/08/26 v1.4] . . . . .	12
	[2007/04/26 v1.5] . . . . .	12
	[2007/05/17 v1.6] . . . . .	12
	[2007/09/09 v1.7] . . . . .	12
	[2016/05/16 v1.8] . . . . .	12
<b>6</b>	<b>Index</b>	<b>12</b>

# The settobox package

## Abstract

Commands are defined for getting box sizes similar to L<sup>A</sup>T<sub>E</sub>X's `\settowidth` commands.

<b>1</b>	<b>Usage</b>	<b>2</b>
1.1	Get box dimensions . . . . .	2
1.2	Set box dimensions . . . . .	2
1.3	Move box . . . . .	2
1.4	Example . . . . .	2
1.4.1	Short example . . . . .	2
1.4.2	Test file that shows box manipulations . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>5</b>
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Download . . . . .	6
3.2	Bundle installation . . . . .	7
3.3	Package installation . . . . .	7
3.4	Refresh file name databases . . . . .	7
3.5	Some details for the interested . . . . .	7
<b>4</b>	<b>History</b>	<b>8</b>
[2000/02/11 v1.0]	. . . . .	8
[2000/09/07 v1.1]	. . . . .	8
[2006/02/20 v1.2]	. . . . .	8
[2007/04/11 v1.3]	. . . . .	8
[2008/08/11 v1.4]	. . . . .	8
[2016/05/16 v1.5]	. . . . .	8
<b>5</b>	<b>Index</b>	<b>8</b>

# The stackrel package

## Abstract

This package adds an optional argument to `\stackrel` for putting something below the relational symbol and defines `\stackbin` for binary symbols.

<b>1</b>	<b>User interface</b>	<b>1</b>
<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>
[2006/12/02 v1.0]	. . . . .	4
[2007/05/06 v1.1]	. . . . .	4
[2007/11/11 v1.2]	. . . . .	4
[2016/05/16 v1.3]	. . . . .	4
<b>5</b>	<b>Index</b>	<b>5</b>

# The stampinclude package

## Abstract

The package replaces `\includeonly` and selects the files for `\include` by inspecting the time stamp of the `.aux` file. The file is selected for inclusion if the `.aux` file does not yet exist or is older than the corresponding `.tex` file.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
1.2	Usage . . . . .	2
1.3	Limitations . . . . .	2
1.3.1	Other file dependencies . . . . .	2
1.3.2	<code>\include</code> dependencies . . . . .	3
1.3.3	Summary . . . . .	3
1.4	Requirements . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
<b>3</b>	<b>Installation</b>	<b>5</b>
3.1	Download . . . . .	5
3.2	Bundle installation . . . . .	5
3.3	Package installation . . . . .	5
3.4	Refresh file name databases . . . . .	6
3.5	Some details for the interested . . . . .	6
<b>4</b>	<b>References</b>	<b>6</b>
<b>5</b>	<b>History</b>	<b>6</b>
	[2008/07/14 v1.0] . . . . .	6
	[2016/05/16 v1.1] . . . . .	6
<b>6</b>	<b>Index</b>	<b>7</b>

# The tabularht package

## Abstract

This package defines some environments that adds a height specification to tabular and array.

<b>1 Usage</b>	<b>2</b>
1.1 Option vlines . . . . .	2
1.2 Limitations . . . . .	3
1.3 Compatibility . . . . .	3
1.4 Examples . . . . .	3
1.4.1 Example 1 . . . . .	3
1.4.2 Example 2 . . . . .	4
<b>2 Implementation</b>	<b>4</b>
2.1 Environments . . . . .	4
2.2 Options . . . . .	7
2.3 Option vlines, driver independent stuff . . . . .	7
2.4 Driver pdftex . . . . .	8
2.5 DVI drivers . . . . .	11
<b>3 Installation</b>	<b>14</b>
3.1 Download . . . . .	14
3.2 Bundle installation . . . . .	14
3.3 Package installation . . . . .	14
3.4 Refresh file name databases . . . . .	15
3.5 Some details for the interested . . . . .	15
<b>4 History</b>	<b>15</b>
[2005/09/22 v1.0] . . . . .	15
[2005/10/16 v2.0] . . . . .	16
[2005/10/18 v2.1] . . . . .	16
[2006/02/20 v2.2] . . . . .	16
[2006/12/22 v2.3] . . . . .	16
[2007/03/21 v2.4] . . . . .	16
[2007/04/11 v2.5] . . . . .	16
[2016/05/16 v2.6] . . . . .	16
<b>5 Index</b>	<b>16</b>

# The tabularkv package

## 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.

<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 . . . . .	4
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>

# The telprint package

## Abstract

Package `telprint` provides `\telprint` for formatting German phone numbers.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Short overview in English . . . . .	2
1.2.1	Configuration . . . . .	2
1.3	Documentation in German . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	Package macros . . . . .	5
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Download . . . . .	8
3.2	Bundle installation . . . . .	8
3.3	Package installation . . . . .	8
3.4	Refresh file name databases . . . . .	8
3.5	Some details for the interested . . . . .	8
<b>4</b>	<b>History</b>	<b>9</b>
	[1996/11/28 v1.0] . . . . .	9
	[1997/09/16 v1.1] . . . . .	9
	[1997/10/16 v1.2] . . . . .	9
	[1997/12/09 v1.3] . . . . .	9
	[2004/11/02 v1.4] . . . . .	9
	[2005/09/30 v1.5] . . . . .	10
	[2006/02/12 v1.6] . . . . .	10
	[2006/08/26 v1.7] . . . . .	10
	[2007/04/11 v1.8] . . . . .	10
	[2007/09/09 v1.9] . . . . .	10
	[2008/08/11 v1.10] . . . . .	10
	[2016/05/16 v1.11] . . . . .	10
<b>5</b>	<b>Index</b>	<b>10</b>

# The thepdfnumber package

## Abstract

The package converts real numbers to a minimal representation that is stripped from leading or trailing zeros, plus signs and decimal point if not necessary.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Usage . . . . .	2
1.3	User macros . . . . .	2
1.4	Input number . . . . .	3
1.5	Error handling . . . . .	4
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Reload check and package identification . . . . .	4
2.2	Catcodes . . . . .	5
2.3	Helper macros . . . . .	6
2.4	Detect $\varepsilon$ -TeX . . . . .	7
2.5	User macro <code>\thepdfnumber</code> . . . . .	7
2.5.1	State definitions for sign . . . . .	7
2.5.2	State definitions for integer part . . . . .	9
2.5.3	State definitions for decimal digits . . . . .	10
2.6	Norm macro . . . . .	11
2.6.1	State definitions for sign . . . . .	12
2.6.2	State definitions for integer part . . . . .	13
2.6.3	State definitions for decimal digits . . . . .	14
<b>3</b>	<b>Installation</b>	<b>15</b>
3.1	Download . . . . .	15
3.2	Bundle installation . . . . .	16
3.3	Package installation . . . . .	16
3.4	Refresh file name databases . . . . .	16
3.5	Some details for the interested . . . . .	16
<b>4</b>	<b>References</b>	<b>17</b>
<b>5</b>	<b>History</b>	<b>17</b>
	[2011/11/24 v1.0] . . . . .	17
	[2016/05/16 v1.1] . . . . .	17
<b>6</b>	<b>Index</b>	<b>17</b>



# The twoopt package

## Abstract

This package provides commands to define macros with two optional arguments.

<b>1</b>	<b>Usage</b>	<b>1</b>
<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 . . . . .	4
3.3	Package installation . . . . .	4
3.4	Refresh file name databases . . . . .	4
3.5	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>5</b>
[1998/10/30 v1.0]	. . . . .	5
[1998/10/30 v1.1]	. . . . .	5
[1998/11/04 v1.2]	. . . . .	5
[1999/04/12 v1.3]	. . . . .	5
[2006/02/20 v1.4]	. . . . .	5
[2008/08/11 v1.5]	. . . . .	5
[2016/05/16 v1.6]	. . . . .	6
<b>5</b>	<b>Index</b>	<b>6</b>