

# CTAN:macros/latex/contrib/oberdiek/

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## 1 Overview

<b>aliascnt</b> (contents)	Alias counters	[ <a href="#">ctan</a> ]
<b>atveryend</b> (contents)	Hooks at the very end of document	[ <a href="#">ctan</a> ]
<b>auxhook</b> (contents)	Hooks for auxiliary files	[ <a href="#">ctan</a> ]
<b>bigintcalc</b> (contents)	Expandable calculations on big integers	[ <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> ]

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

<b>enparen</b> (contents)	Parentheses nesting	<a href="#">[ctan]</a>
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<b>kvsetkeys</b> (contents)	Key value parser	<a href="#">[ctan]</a>
<b>ltxcmds</b> (contents)	L <sup>A</sup> T <sub>E</sub> X kernel commands for general use	<a href="#">[ctan]</a>
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<b>pdfcolparallel</b> (contents)	Color stacks support for parallel	<a href="#">[ctan]</a>
<b>pdfcolparcolumns</b> (contents)	Color stacks for parcolumns	<a href="#">[ctan]</a>
<b>pdfcrypt</b> (contents)	Allows the setting of PDF encryption	<a href="#">[ctan]</a>
<b>pdfrender</b> (contents)	Access to some PDF graphics parameters	<a href="#">[ctan]</a>
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<b>rotchiffre</b> (contents)	Perform simple rotation ciphers	<a href="#">[ctan]</a>
<b>scrindex</b> (contents)	Package index with KOMA-Script classes	<a href="#">[ctan]</a>
<b>selinput</b> (contents)	Semi-automatic input encoding detection	<a href="#">[ctan]</a>
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## 2 Packages

### The aliascnt package

#### Abstract

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

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	[2016/05/16 v1.4] . . . . .	6
	[2018/09/07 v1.5] . . . . .	6
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# The auxhook package

## Abstract

Package auxhook provides hooks for adding stuff at the begin of .aux files.

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# The bigintcalc package

## Abstract

This package provides expandable arithmetic operations with big integers that can exceed  $\text{\TeX}$ 's number limits.

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# 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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# The centernot package

## Abstract

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

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[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
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# 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`.

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# The classlist package

## Abstract

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

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[2006/02/20 v1.2]	. . . . .	6
[2008/08/11 v1.3]	. . . . .	6
[2011/10/17 v1.4]	. . . . .	6
[2016/05/16 v1.5]	. . . . .	6
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# 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.

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	[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”.

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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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# 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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2.2	Catcodes . . . . .	6
2.3	Resources . . . . .	7
2.4	Macro <code>\eolgrab</code> . . . . .	7
<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>References</b>	<b>10</b>
<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 etexcmds package

## Abstract

New primitive commands are introduced in  $\varepsilon$ -TeX. Sometimes the names collide with existing macros. This package solves this name clashes by adding a prefix to  $\varepsilon$ -TeX's commands. For example,  $\varepsilon$ -TeX's `\unexpanded` is provided as `\etex@unexpanded`.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	<code>\unexpanded</code> . . . . .	2
1.2	<code>\expanded</code> . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	3
2.3	Provide <code>\newif</code> . . . . .	4
2.4	Load package <code>infwarerr</code> . . . . .	4
2.5	<code>\unexpanded</code> . . . . .	5
2.6	<code>\expanded</code> . . . . .	6
<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>
	[2007/05/06 v1.0] . . . . .	8
	[2007/09/09 v1.1] . . . . .	8
	[2007/12/12 v1.2] . . . . .	8
	[2010/01/28 v1.3] . . . . .	8
	[2011/01/30 v1.4] . . . . .	8
	[2011/02/16 v1.5] . . . . .	9
	[2016/05/16 v1.6] . . . . .	9
<b>5</b>	<b>Index</b>	<b>9</b>

# The fibnum package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Identification . . . . .	4
2.2	Package resources . . . . .	6
2.3	Setup precalculated values . . . . .	6
2.4	Macros for precalculating values . . . . .	7
2.5	Expandable calculations . . . . .	8
<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>
	[2012/04/08 v1.0] . . . . .	11
	[2016/05/16 v1.1] . . . . .	11
<b>6</b>	<b>Index</b>	<b>11</b>

# 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.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	User interface . . . . .	2
1.2	Requirements . . . . .	2
1.3	ToDo . . . . .	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 . . . . .	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>
[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 `getttitlestring` package

## Abstract

The `LaTeX` package addresses packages that are dealing with references to titles (`\section`, `\caption`, ...). The package tries to remove `\label` and other commands from title strings.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Macros . . . . .	2
1.2	Options . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Options . . . . .	4
2.2	<code>\GetTitleString</code> . . . . .	5
2.2.1	Expand method . . . . .	5
2.2.2	Non-expand method . . . . .	6
<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 . . . . .	9
<b>4</b>	<b>References</b>	<b>9</b>
<b>5</b>	<b>History</b>	<b>9</b>
[2009/12/08 v1.0]	. . . . .	9
[2009/12/12 v1.1]	. . . . .	9
[2009/12/13 v1.2]	. . . . .	9
[2009/12/18 v1.3]	. . . . .	9
[2010/12/03 v1.4]	. . . . .	10
[2016/05/16 v1.5]	. . . . .	10
<b>6</b>	<b>Index</b>	<b>10</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
<b>5 Index</b>	<b>11</b>



# 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 hycolor package

## Abstract

Package hycolor implements the color option stuff that is used by packages hyperref and bookmark. It is not intended as package for the user.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Summary . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Normalization . . . . .	3
2.1.1	Sanitize value of color option . . . . .	3
2.1.2	Normalize result . . . . .	4
2.2	Main algorithm for color options . . . . .	5
2.3	Package bookmark . . . . .	5
2.4	Utils . . . . .	7
2.5	Package hyperref . . . . .	8
2.5.1	Options Hyp.*color . . . . .	8
2.5.2	Generic algorithm . . . . .	11
2.5.3	Field options . . . . .	13
2.5.4	Detection for naked RGB values . . . . .	13
2.5.5	Options *bordercolor . . . . .	15
2.6	Package attachfile2 . . . . .	16
2.7	Patch for package xcolor . . . . .	19
2.7.1	Fix fragile \@frameb@x . . . . .	21
<b>3</b>	<b>Installation</b>	<b>22</b>
3.1	Download . . . . .	22
3.2	Bundle installation . . . . .	22
3.3	Package installation . . . . .	22
3.4	Refresh file name databases . . . . .	23
3.5	Some details for the interested . . . . .	23
<b>4</b>	<b>History</b>	<b>23</b>
	[2007/04/09 v1.0] . . . . .	23
	[2007/04/11 v1.1] . . . . .	23
	[2008/07/29 v1.2] . . . . .	23
	[2008/08/01 v1.3] . . . . .	23
	[2008/09/08 v1.4] . . . . .	23
	[2009/10/02 v1.5] . . . . .	24
	[2009/12/12 v1.6] . . . . .	24
	[2011/01/30 v1.7] . . . . .	24
	[2016/05/16 v1.8] . . . . .	24
<b>5</b>	<b>Index</b>	<b>24</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</b>	<b>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</b>	<b>Implementation</b>	<b>4</b>
<b>3</b>	<b>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</b>	<b>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</b>	<b>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
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# The iflang package

## Abstract

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

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# The intcalc package

## Abstract

This package provides expandable arithmetic operations with integers.

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# The kvdefinekeys package

## Abstract

Package kvdefinekeys provides `\kv@define@key` to define keys the same way as keyval's `\define@key`. However, it works also using ini-TeX.

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	[2011/04/07 v1.3] . . . . .	6
	[2016/05/16 v1.4] . . . . .	6
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# The kvsetkeys package

## Abstract

Package kvsetkeys provides `\kvsetkeys`, a variant of package keyval's `\setkeys`. It allows to specify a handler that deals with unknown options. Active commas and equal signs may be used (e.g. see babel's shorthands) and only one level of curly braces is removed from the values.

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[2010/01/28 v1.8]	22
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# The ltxcmds package

## Abstract

The package `ltxcmds` exports some utility macros from the  $\text{\LaTeX}$  kernel into a separate namespace and also provides them for other formats such as `plain-TeX`.

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# The pagegrid package

## Abstract

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

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[2009/12/02 v1.2]		12
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[2009/12/04 v1.4]		12
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# The pagesel package

## Abstract

Single pages or page areas can be selected for output.

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3.5 Some details for the interested . . . . .	8
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[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
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<b>5 Index</b>	<b>10</b>

# The pdfcol package

## Abstract

Since version 1.40 pdfTeX 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.

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	[2007/12/12 v1.2] . . . . .	11
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	[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.

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<b>6</b>	<b>History</b>	<b>7</b>
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	[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.

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<b>4</b>	<b>References</b>	<b>12</b>
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	[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.

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3.4	Refresh file name databases	7
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<b>5</b>	<b>History</b>	<b>8</b>
	[2007/07/26 v1.0]	8
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<b>6</b>	<b>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.

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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 packages 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 refcount package

## Abstract

References are not numbers, however they often store numerical data such as section or page numbers. `\ref` or `\pageref` cannot be used for counter assignments or calculations because they are not expandable, generate warnings, or can even be links. The package provides expandable macros to extract the data from references. Packages `hyperref`, `nameref`, `titleref`, and `babel` are supported.

<b>1 Usage</b>	<b>2</b>
1.1 Setting counters . . . . .	2
1.2 Expandable commands . . . . .	2
1.3 Undefined references . . . . .	3
1.3.1 Check for undefined references . . . . .	3
1.4 Notes . . . . .	3
<b>2 Implementation</b>	<b>4</b>
2.1 Loading packages . . . . .	5
2.2 Defining commands . . . . .	6
2.3 <code>\setrefcountdefault</code> . . . . .	7
2.4 <code>\refused</code> . . . . .	7
2.5 Setting counters by reference data . . . . .	8
2.5.1 Generic setting . . . . .	8
2.5.2 User commands . . . . .	9
2.6 Extracting references . . . . .	9
2.7 Macros for checking undefined references . . . . .	11
<b>3 Installation</b>	<b>11</b>
3.1 Download . . . . .	11
3.2 Bundle installation . . . . .	12
3.3 Package installation . . . . .	12
3.4 Refresh file name databases . . . . .	12
3.5 Some details for the interested . . . . .	12
<b>4 History</b>	<b>13</b>
[1998/04/08 v1.0] . . . . .	13
[2000/09/07 v2.0] . . . . .	13
[2006/02/20 v3.0] . . . . .	13
[2008/08/11 v3.1] . . . . .	13
[2010/12/01 v3.2] . . . . .	13
[2011/06/22 v3.3] . . . . .	14
[2011/10/16 v3.4] . . . . .	14
[2016/05/16 v3.5] . . . . .	14
<b>5 Index</b>	<b>14</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 soulutf8 package

## Abstract

This package extends package `soul` and adds some support for UTF-8. Namely the input encodings `utf8.def` from package `inputenc` and package `ucs`'s `utf8x.def` are supported.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Patch . . . . .	2
1.2	Future . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	4
2.3	Loading packages . . . . .	5
2.3.1	plain $\text{\TeX}$ . . . . .	5
2.3.2	$\text{\LaTeX}$ . . . . .	6
2.3.3	$\epsilon\text{-TeX}$ . . . . .	6
2.4	Macro for redefinitions . . . . .	6
2.5	Redefinition of <code>\SOUL@eval</code> . . . . .	6
2.6	UTF-8 analysis . . . . .	10
2.6.1	Help strings . . . . .	10
2.6.2	Support for <code>utf8.def</code> . . . . .	10
2.6.3	Support for <code>utf8x.def</code> . . . . .	11
2.7	Actions for UTF-8 sequences . . . . .	11
2.7.1	Redefinition of <code>\SOUL@splittoken</code> . . . . .	12
2.8	Patches . . . . .	12
<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>
	[2007/09/09 v1.0] . . . . .	17
	[2016/05/16 v1.1] . . . . .	17
<b>6</b>	<b>Index</b>	<b>17</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>
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	[2016/05/16 v1.1] . . . . .	17
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# The twoopt package

## Abstract

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

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# The uniquecounter package

## Abstract

This package provides a kind of counter that provides unique number values. Several counters can be created by different names. The numeric values are not limited.

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