

# CTAN:macros/latex/contrib/oberdiek/

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## 1 Overview

<b>accsupp</b> (contents)	2010/01/16 v0.3 Accessibility support by marked content	[pdf] [dtx]
<b>aliascnt</b> (contents)	2009/09/08 v1.3 Alias counters	[pdf] [dtx]
<b>alphalph</b> (contents)	2011/05/13 v2.4 Convert numbers to letters	[pdf] [dtx]
<b>askinclude</b> (contents)	2011/12/02 v2.2 Interactive asking of included files	[pdf] [dtx]
<b>atbegshi</b> (contents)	2011/10/05 v1.16 At begin shipout hook	[pdf] [dtx]
<b>atenddvi</b> (contents)	2007/04/17 v1.1 At end DVI hook	[pdf] [dtx]
<b>attachfile2</b> (contents)	2019/07/24 v2.9 Attach files into PDF	[pdf] [dtx]
<b>atveryend</b> (contents)	2011/06/30 v1.8 Hooks at the very end of document	[pdf] [dtx]
<b>auxhook</b> (contents)	2011/03/04 v1.3 Hooks for auxiliary files	[pdf] [dtx]
<b>bigintcalc</b> (contents)	2012/04/08 v1.3 Expandable calculations on big integers	[pdf] [dtx]
<b>bitset</b> (contents)	2011/01/30 v1.1 Handle bit-vector datatype	[pdf] [dtx]

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

<b>bmpsize</b> (contents)	2009/09/04 v1.6 Extract size/resolution from bitmap files	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>bookmark</b> (contents)	2011/12/02 v1.24 PDF bookmarks	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>catchfile</b> (contents)	2011/03/01 v1.6 Catch the contents of a file	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>centernot</b> (contents)	2011/07/11 v1.3 Centers the not symbol horizontally	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>chemarr</b> (contents)	2006/02/20 v1.2 Arrows for chemical reactions	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>classlist</b> (contents)	2011/10/17 v1.4 Record classes used in a document	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>colonequals</b> (contents)	2006/08/01 v1.0 Colon equals symbols	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>dvipscol</b> (contents)	2008/08/11 v1.2 Alter the usage of the dvips color stack	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>embedfile</b> (contents)	2011/04/13 v2.6 Embed files into PDF	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>engord</b> (contents)	2010/03/01 v1.8 Provides English ordinal numbers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>enparen</b> (contents)	2012/01/07 v1.0 Parentheses nesting	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>eolgrab</b> (contents)	2011/01/12 v1.0 Catch arguments delimited by end of line	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>epstopdf</b> (contents)	2010/02/09 v2.5 Conversion with epstopdf on the fly	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>etexcmds</b> (contents)	2011/02/16 v1.5 Avoid name clashes with $\epsilon$ -TeX commands	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>fibnum</b> (contents)	2012/04/08 v1.0 Fibonacci numbers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>flags</b> (contents)	2007/09/30 v0.4 Setting/clearing of flags in bit fields	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>getttitlestring</b> (contents)	2010/12/03 v1.4 Cleanup title references	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>grfext</b> (contents)	2010/08/19 v1.1 Manage graphics extensions	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

<b>hologo</b> (contents)	2012/04/26 v1.10 A logo collection with bookmark support	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>holtxdoc</b> (contents)	2012/03/21 v0.24 Private additional ltxdoc support	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hopatch</b> (contents)	2011/06/24 v1.1 Wrapper for package hooks	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hycolor</b> (contents)	2011/01/30 v1.7 Color options for hyperref/bookmark	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypbmsec</b> (contents)	2007/04/11 v2.4 Bookmarks in sectioning commands	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypcap</b> (contents)	2011/02/16 v1.11 Adjusting the anchors of captions	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypdestopt</b> (contents)	2011/05/13 v2.3 Hyperref destination optimizer	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypdoc</b> (contents)	2011/08/19 v1.11 Hyper extensions for doc.sty	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypgotoe</b> (contents)	2007/10/30 v0.1 Links to embedded files	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hyphsubst</b> (contents)	2008/06/09 v0.2 Substitute hyphenation patterns	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>ifdraft</b> (contents)	2008/08/11 v1.3 Detect class options draft and final	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>iflang</b> (contents)	2007/11/11 v1.5 Checks for the current language	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>infwarerr</b> (contents)	2010/04/08 v1.3 Providing info/warning/error messages	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>inputenx</b> (contents)	2011/05/27 v1.10 Enhanced input encoding handling	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>intcalc</b> (contents)	2007/09/27 v1.1 Expandable calculations with integers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>kvdefinekeys</b> (contents)	2011/04/07 v1.3 Define keys	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>kvoptions</b> (contents)	2011/06/30 v3.11 Key value format for package options	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>kvsetkeys</b> (contents)	2012/04/25 v1.16 Key value parser	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

<b>letltxmacro</b> (contents)	2010/09/02 v1.4 Let assignment for L <sup>A</sup> T <sub>E</sub> X macros	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>listingsutf8</b> (contents)	2011/11/10 v1.2 Allow UTF-8 in listings input	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>ltxcmds</b> (contents)	2011/11/09 v1.22 L <sup>A</sup> T <sub>E</sub> X kernel commands for general use	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>luacolor</b> (contents)	2019/07/25 v1.12 Color support via LuaT <sub>E</sub> X's attributes	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>magicnum</b> (contents)	2019/07/25 v1.6 Magic numbers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>mleftright</b> (contents)	2010/09/25 v1.0 Math left/right delim. as open/close	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pagegrid</b> (contents)	2009/12/04 v1.4 Print page grid in background	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pagesel</b> (contents)	2008/08/11 v1.8 Select pages of a document for output	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcol</b> (contents)	2007/12/12 v1.2 Handle new color stacks for pdfT <sub>E</sub> X	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcolfoot</b> (contents)	2012/01/02 v1.2 Color stack for footnotes with pdfT <sub>E</sub> X	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcolmk</b> (contents)	2008/08/11 v1.2 Color support for pdfT <sub>E</sub> X via marks	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcolparallel</b> (contents)	2010/01/11 v1.3 Color stacks support for parallel	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcolparcolumns</b> (contents)	2010/01/11 v1.3 Color stacks for parcolumns	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcrypt</b> (contents)	2007/04/26 v1.0 Allows the setting of PDF encryption	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfescape</b> (contents)	2011/11/25 v1.13 Implements pdfT <sub>E</sub> X's escape features	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfscape</b> (contents)	2008/08/11 v0.10 Display of landscape pages in PDF	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfrender</b> (contents)	2010/01/28 v1.2 Access to some PDF graphics parameters	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdftexcmds</b> (contents)	2019/07/25 v0.30 Utility functions of pdfT <sub>E</sub> X for LuaT <sub>E</sub> X	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

<b>picture</b> (contents)	2009/10/11 v1.3 Dimens for picture macros	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pmboxdraw</b> (contents)	2011/03/24 v1.1 Poor man's box drawing characters	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>protecteddef</b> (contents)	2011/01/31 v1.0 Define protected commands	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>refcount</b> (contents)	2011/10/16 v3.4 Data extraction from label references	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>rerunfilecheck</b> (contents)	2011/04/15 v1.7 Rerun checks for auxiliary files	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>resizegather</b> (contents)	2010/03/01 v1.2 Resize overly large equations	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>rotchiffre</b> (contents)	2010/11/12 v1.0 Perform simple rotation ciphers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>scrindex</b> (contents)	2008/08/11 v1.1 Package index with KOMA-Script classes	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>selinput</b> (contents)	2007/09/09 v1.2 Semi-automatic input encoding detection	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>setouterhbox</b> (contents)	2007/09/09 v1.7 Set hbox in outer horizontal mode	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>settobox</b> (contents)	2008/08/11 v1.4 Assign box dimensions to length registers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>soulutf8</b> (contents)	2007/09/09 v1.0 Permit use of UTF-8 characters in soul	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>stackrel</b> (contents)	2007/11/11 v1.2 Adding subscript option to stackrel	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>stampinclude</b> (contents)	2008/07/14 v1.0 Include files based on time stamps	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>stringenc</b> (contents)	2011/12/02 v1.10 Convert strings between diff. encodings	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>tabularht</b> (contents)	2007/04/11 v2.5 Tabular with height specified	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>tabularkv</b> (contents)	2006/02/20 v1.1 Tabular with key value interface	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>telprint</b> (contents)	2008/08/11 v1.10 Format German phone numbers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

<b>thepdfnumber</b> (contents)	2011/11/24 v1.0 Print PDF numbers with minimal digits	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>transparent</b> (contents)	2007/01/08 v1.0 Transparency via pdfTeX's color stack	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>twoopt</b> (contents)	2008/08/11 v1.5 Definitions with two optional arguments	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>uniquecounter</b> (contents)	2011/01/30 v1.2 Provide unlimited unique counter	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>zref</b> (contents)	2012/04/04 v2.24 A new reference scheme for L <sup>A</sup> T <sub>E</sub> X	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

## 2 Packages

### The accsupp package

#### Abstract

Since PDF 1.5 portions of a page can be marked for better accessibility support. For example, replacement texts or expansions of abbreviations can be provided. Package **accsupp** starts with providing a minimal low-level interface for programmers. Status is experimental.

<b>1 Documentation</b>	<b>2</b>
1.1 Macros	2
1.1.1 Feature options	2
1.1.2 Input methods	3
1.2 Workaround, option <b>space</b>	3
1.3 Driver options	3
1.3.1 Option <b>pdftex</b>	4
1.3.2 Option <b>luatex</b>	4
1.3.3 Option <b>dvipdfm</b>	4
1.3.4 Option <b>dvips</b>	4
1.3.5 Turning off page stream compression	4
<b>2 Example</b>	<b>4</b>
2.1 Example <b>\notparallel</b>	4
2.2 Example with <b>pdfstringdef</b>	5
<b>3 Implementation</b>	<b>5</b>
3.1 Package	5
3.2 Space setup	6
3.3 Driver detection and setup	6
3.4 Main macro	8
3.4.1 Input methods	10
3.5 Drivers	11

3.5.1	Driver <code>pdftex</code>	11
3.5.2	Driver <code>luatex</code>	11
3.5.3	Driver <code>dvipdfm</code>	11
3.5.4	Driver <code>dvips</code>	11
<b>4</b>	<b>Test</b>	<b>12</b>
4.1	Catcode checks for loading	12
<b>5</b>	<b>Installation</b>	<b>12</b>
5.1	Download	12
5.2	Bundle installation	13
5.3	Package installation	13
5.4	Refresh file name databases	13
5.5	Some details for the interested	14
<b>6</b>	<b>References</b>	<b>14</b>
<b>7</b>	<b>History</b>	<b>14</b>
[2007/03/21 v0.1]		14
[2007/11/14 v0.2]		14
[2010/01/16 v0.3]		14
[2016/05/16 v0.4]		14
[2018/03/28 v0.5]		14
<b>8</b>	<b>Index</b>	<b>15</b>

# The aliascnt package

## Abstract

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

<b>1</b>	<b>User interface</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Syntax . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Create new alias counter . . . . .	2
2.3	Counter clear list . . . . .	3
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Download . . . . .	4
3.2	Bundle installation . . . . .	4
3.3	Package installation . . . . .	4
3.4	Refresh file name databases . . . . .	4
3.5	Some details for the interested . . . . .	5
<b>4</b>	<b>Acknowledgement</b>	<b>5</b>
<b>5</b>	<b>References</b>	<b>5</b>
<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] . . . . .	6
	[2009/09/08 v1.3] . . . . .	6
	[2016/05/16 v1.4] . . . . .	6
	[2018/09/07 v1.5] . . . . .	6
<b>7</b>	<b>Index</b>	<b>6</b>



# The alphaph package

## Abstract

The package provides methods to represent numbers with a limited set of symbols. Both L<sup>A</sup>T<sub>E</sub>X and plain T<sub>E</sub>X are supported.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Use cases . . . . .	3
1.2.1	Number system based on symbols . . . . .	3
1.2.2	Wrap symbols around . . . . .	3
1.2.3	Multiple symbols . . . . .	3
1.3	Glossary . . . . .	4
1.4	Package usage . . . . .	5
1.5	User commands . . . . .	5
1.6	Programmer commands . . . . .	6
1.7	Design principles . . . . .	6
1.7.1	Number presentation commands . . . . .	6
1.7.2	General usability . . . . .	6
<b>2</b>	<b>Implementation</b>	<b>7</b>
2.1	Begin of package . . . . .	7
2.2	Catcodes . . . . .	8
2.3	Package loading . . . . .	9
2.4	$\varepsilon$ -T <sub>E</sub> X detection . . . . .	9
2.5	Help macros . . . . .	9
2.6	Symbol provider . . . . .	10
2.6.1	Alphabet . . . . .	10
2.7	Finding number of symbols . . . . .	11
2.8	Methods . . . . .	13
2.8.1	Common methods . . . . .	13
2.8.2	Method ‘alph’ . . . . .	13
2.8.3	Method ‘wrap’ . . . . .	14
2.8.4	Method ‘mult’ . . . . .	15
2.9	User interface . . . . .	16
<b>3</b>	<b>Test</b>	<b>17</b>
3.1	Catcode checks for loading . . . . .	17
<b>4</b>	<b>Macro tests</b>	<b>19</b>
<b>5</b>	<b>Installation</b>	<b>23</b>
5.1	Download . . . . .	23
5.2	Bundle installation . . . . .	23
5.3	Package installation . . . . .	23
5.4	Refresh file name databases . . . . .	24
5.5	Some details for the interested . . . . .	24

<b>6 History</b>	<b>24</b>
[1999/03/19 v0.1] . . . . .	24
[1999/04/12 v1.0] . . . . .	25
[1999/04/13 v1.1] . . . . .	25
[1999/06/26 v1.2] . . . . .	25
[2006/02/20 v1.3] . . . . .	25
[2006/05/30 v1.4] . . . . .	25
[2007/04/11 v1.5] . . . . .	25
[2007/09/09 v2.0] . . . . .	25
[2008/08/11 v2.1] . . . . .	25
[2010/03/01 v2.2] . . . . .	25
[2010/04/18 v2.3] . . . . .	25
[2011/05/13 v2.4] . . . . .	26
[2016/05/16 v2.5] . . . . .	26
<b>7 Index</b>	<b>26</b>

# The askinclude package

## Abstract

This package replaces `\includeonly` by an interactive user interface.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	User interface . . . . .	2
1.2	Single asking mode . . . . .	4
1.3	Regular expressions . . . . .	4
1.3.1	Method <code>makematch</code> . . . . .	5
1.3.2	Method <code>pdfmatch</code> . . . . .	5
1.4	History . . . . .	6
1.5	New features of version 2 . . . . .	6
1.6	Compatibility to version 1 . . . . .	7
<b>2</b>	<b>Implementation</b>	<b>7</b>
2.1	Header and catcodes . . . . .	7
2.2	Delay action after preamble . . . . .	8
2.3	Write entry in <code>.aux</code> file . . . . .	8
2.4	Remember <code>\include</code> files . . . . .	8
2.5	Redefine <code>\include</code> . . . . .	10
2.6	Store answer and match method in <code>.aux</code> file . . . . .	10
2.7	Support for <code>\@includeonly</code> . . . . .	10
2.8	Stop if <code>\includeonly</code> is active . . . . .	10
2.9	<code>\includeonly</code> . . . . .	11
2.10	Options . . . . .	11
2.11	Strings . . . . .	12
2.12	Set defaults . . . . .	12
2.13	Questions . . . . .	13
2.13.1	Generic question header . . . . .	13
2.13.2	Display files . . . . .	14
2.13.3	Previous answer . . . . .	14
2.13.4	Current regular expression support . . . . .	15
2.13.5	Main question text . . . . .	15
2.13.6	Main question . . . . .	15
2.14	Evaluate answer of main question . . . . .	16
2.15	Ask for each file . . . . .	19
<b>3</b>	<b>Test</b>	<b>21</b>
3.1	Included files . . . . .	21
3.2	Special test setup . . . . .	22
3.3	Common start . . . . .	22
3.4	First run tests . . . . .	25
3.5	Second run tests . . . . .	30
3.6	Compatibility for changing from old to new . . . . .	34
3.7	Regular expressions . . . . .	36
3.8	Common end . . . . .	37

<b>4</b>	<b>Installation</b>	<b>37</b>
4.1	Download . . . . .	37
4.2	Bundle installation . . . . .	37
4.3	Package installation . . . . .	37
4.4	Refresh file name databases . . . . .	38
4.5	Some details for the interested . . . . .	38
<b>5</b>	<b>Acknowledgement</b>	<b>39</b>
<b>6</b>	<b>History</b>	<b>39</b>
[1991/11/05	v0.95] . . . . .	39
[1991/11/05	v0.99] . . . . .	39
[1991/11/07	v1.0] . . . . .	39
[1991/12/13	v1.1] . . . . .	39
[1994/11/02	v1.2e] . . . . .	39
[2007/10/15	v1.0 (askinc)] . . . . .	40
[2007/10/23	v2.0] . . . . .	40
[2008/08/11	v2.1] . . . . .	40
[2011/12/02	v2.2] . . . . .	40
[2016/05/14	v2.3] . . . . .	40
[2018/11/01	v2.4] . . . . .	40
<b>7</b>	<b>Index</b>	<b>40</b>

# The atbegshi package

## Abstract

This package is a modern reimplementation of package `everyshi` without the burden of compatibility. It makes use of  $\varepsilon$ -TeX's if available. Both L<sup>A</sup>T<sub>E</sub>X and plain-T<sub>E</sub>X are supported.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Examples	4
1.1.1	Example: circle in background	4
1.1.2	Example: adding TrimBox for dvipdfmx	5
<b>2</b>	<b>Method of <code>\shipout</code> overloading</b>	<b>6</b>
2.1	<code>\shipout</code>	6
2.2	<code>\afterassignment</code>	6
2.3	Test for direct or indirect boxes	7
2.3.1	With $\varepsilon$ -T <sub>E</sub> X	7
2.3.2	Without $\varepsilon$ -T <sub>E</sub> X	7
2.3.3	<code>\lastkern</code> method	8
2.4	Output	9
2.5	Separate box register	9
2.6	Summary	10
2.6.1	With $\varepsilon$ -T <sub>E</sub> X	10
2.6.2	Without $\varepsilon$ -T <sub>E</sub> X, traditional way	10
2.6.3	<code>\lastkern</code> method	11
<b>3</b>	<b>Implementation</b>	<b>11</b>
3.1	Reload check and package identification	11
3.2	Catcodes	13
3.3	Preparations	13
3.4	Additions to the shipout box	18
3.5	Positioning	20
3.6	Patches	21
3.6.1	Package <code>crop</code>	22
3.6.2	Package <code>everyshi</code>	23
3.6.3	Class <code>memoir</code>	24
<b>4</b>	<b>Test</b>	<b>27</b>
4.1	Catcode checks for loading	27
<b>5</b>	<b>Installation</b>	<b>31</b>
5.1	Download	31
5.2	Bundle installation	32
5.3	Package installation	32
5.4	Refresh file name databases	32
5.5	Some details for the interested	33

<b>6 History</b>	<b>33</b>
[2007/04/17 v1.0]	33
[2007/04/18 v1.1]	33
[2007/04/19 v1.2]	33
[2007/04/26 v1.3]	33
[2007/04/27 v1.4]	33
[2007/06/06 v1.5]	34
[2007/09/09 v1.6]	34
[2008/07/18 v1.7]	34
[2008/07/19 v1.8]	34
[2008/07/31 v1.9]	34
[2009/12/02 v1.10]	34
[2010/03/01 v1.11]	34
[2010/03/25 v1.12]	34
[2010/08/18 v1.13]	34
[2010/12/02 v1.14]	34
[2011/01/30 v1.15]	34
[2011/10/05 v1.16]	35
[2016/05/16 v1.17]	35
[2016/06/09 v1.18]	35
<b>7 Index</b>	<b>35</b>

# The atenddvi package

## Abstract

L<sup>A</sup>T<sub>E</sub>X offers `\AtBeginDvi`. This package `atenddvi` provides the counterpart `\AtEndDvi`. The execution of its argument is delayed to the end of the document at the end of the last page. Thus `\special` and `\write` remain effective, because they are put into the last page. This is the main difference to `\AtEndDocument`.

<b>1</b>	<b>Documentation</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Download . . . . .	4
3.2	Bundle installation . . . . .	4
3.3	Package installation . . . . .	4
3.4	Refresh file name databases . . . . .	5
3.5	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>5</b>
	[2007/03/20 v1.0] . . . . .	5
	[2007/04/17 v1.1] . . . . .	5
	[2016/05/16 v1.2] . . . . .	5
<b>5</b>	<b>Index</b>	<b>5</b>

# The attachfile2 package

## Abstract

This package can be used to attach files to a PDF document. It is a further development of Scott Pakin's package `attachfile` for pdfTeX. Apart from bug fixes, package `attachfile2` adds support for `dvips`, some new options, gets and writes meta information data about the attached files.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction	2
1.1.1	Future development	2
1.2	User interface	3
1.2.1	New options	3
1.2.2	Option <code>color</code>	4
1.2.3	Perl script <code>pdfatfi.pl</code>	4
1.3	Changes to <code>attachfile</code>	5
<b>2</b>	<b>Implementation</b>	<b>5</b>
2.1	Package	5
2.1.1	Loading of packages	5
2.1.2	Value checking	5
2.1.3	Option declarations	7
2.1.4	Option calling	11
2.1.5	Evaluate driver options	11
2.1.6	Evaluate options <code>draft/final</code>	12
2.1.7	Load driver file	13
2.1.8	Graphics	13
2.1.9	Reading the <code>.atfi</code> file	16
2.1.10	Writing the <code>.atfi</code> file	18
2.1.11	Annotation appearance	19
2.2	Drivers	22
2.2.1	pdfTeX	22
2.3	luatex	24
2.3.1	dvips	27
2.3.2	dvipdfmx	36
2.4	Perl script <code>pdfatfi.pl</code>	39
<b>3</b>	<b>Installation</b>	<b>43</b>
3.1	Download	43
3.2	Bundle installation	44
3.3	Package installation	44
3.4	Refresh file name databases	44
3.5	Script installation	44
3.6	Some details for the interested	44
<b>4</b>	<b>References</b>	<b>45</b>



<b>5 History</b>	<b>45</b>
[2005/02/23 v2.0] . . . . .	45
[2005/10/07 v2.1] . . . . .	46
[2006/08/17 v2.2] . . . . .	46
[2007/04/11 v2.3] . . . . .	46
[2008/07/29 v2.4] . . . . .	46
[2009/09/25 v2.5] . . . . .	46
[2010/09/27 v2.6] . . . . .	46
[2012/04/18 v2.7] . . . . .	46
[2016/05/16 v2.8] . . . . .	46
[2019/07/24 v2.9] . . . . .	46
<b>6 Index</b>	<b>47</b>

# The atveryend package

## Abstract

This L<sup>A</sup>T<sub>E</sub>X package provides two hooks for `\end{document}` that are executed after the hook of `\AtEndDocument`. `\AfterLastShipout` can be used for code that is to be executed right after the last `\clearpage` before the `.aux` file is closed. `\AtVeryEndDocument` is used for code after closing and final reading of the `.aux` file.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Related work . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Tools . . . . .	4
2.2	Hooks . . . . .	4
2.3	Redefining <code>\enddocument</code> . . . . .	6
2.3.1	L <sup>A</sup> T <sub>E</sub> X kernel . . . . .	6
2.3.2	L <sup>A</sup> T <sub>E</sub> X kernel 2011/06/27 . . . . .	8
2.3.3	Package <code>booklet</code> , file <code>2up.tex</code> . . . . .	9
2.3.4	Class <code>dinbrief</code> . . . . .	9
2.3.5	Class <code>combine</code> . . . . .	10
2.3.6	Class <code>jpsj2</code> . . . . .	12
2.3.7	Testing and redefining . . . . .	13
2.4	Hack into <code>\enddocument</code> . . . . .	14
2.5	Using hooks of other packages . . . . .	14
2.5.1	Package <code>scrfile</code> . . . . .	14
2.5.2	Package <code>etoolbox</code> . . . . .	15
2.6	Class <code>letter</code> . . . . .	15
<b>3</b>	<b>Test</b>	<b>17</b>
3.1	Catcode checks for loading . . . . .	17
<b>4</b>	<b>Installation</b>	<b>19</b>
4.1	Download . . . . .	19
4.2	Bundle installation . . . . .	19
4.3	Package installation . . . . .	19
4.4	Refresh file name databases . . . . .	19
4.5	Some details for the interested . . . . .	20
<b>5</b>	<b>Acknowledgement</b>	<b>20</b>
<b>6</b>	<b>References</b>	<b>20</b>
<b>7</b>	<b>History</b>	<b>21</b>
	[2009/12/06 v1.0] . . . . .	21
	[2009/12/07 v1.1] . . . . .	21
	[2009/12/09 v1.2] . . . . .	21
	[2009/12/11 v1.3] . . . . .	21

[2010/01/25 v1.4]	21
[2010/03/24 v1.5]	21
[2011/04/15 v1.6]	21
[2011/04/23 v1.7]	21
[2011/06/30 v1.8]	21
[2016/05/16 v1.9]	21
<b>8 Index</b>	<b>21</b>

# The auxhook package

## Abstract

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

<b>1</b>	<b>User interface</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Hook setup . . . . .	2
2.3	User macros . . . . .	3
2.4	Patches . . . . .	3
2.4.1	<code>\document</code> . . . . .	3
2.4.2	<code>\@include</code> . . . . .	4
<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 . . . . .	5
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>
	[2006/05/31 v1.0] . . . . .	6
	[2007/04/06 v1.1] . . . . .	6
	[2009/12/14 v1.2] . . . . .	6
	[2011/03/04 v1.3] . . . . .	6
	[2016/05/16 v1.4] . . . . .	7
<b>6</b>	<b>Index</b>	<b>7</b>

# The bigintcalc package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Conditions . . . . .	3
1.2.1	Preconditions . . . . .	3
1.2.2	Postconditions . . . . .	3
1.3	Error handling . . . . .	3
1.4	Operations . . . . .	3
1.4.1	Num . . . . .	3
1.4.2	Inv, Abs, Sgn . . . . .	4
1.4.3	Min, Max, Cmp . . . . .	4
1.4.4	Odd . . . . .	5
1.4.5	Inc, Dec, Add, Sub . . . . .	5
1.4.6	Shl, Shr . . . . .	6
1.4.7	Mul, Sqr, Fac, Pow . . . . .	6
1.4.8	Div, Mul . . . . .	7
1.5	Interface for programmers . . . . .	7
<b>2</b>	<b>Implementation</b>	<b>8</b>
2.1	Reload check and package identification . . . . .	8
2.2	Catcodes . . . . .	9
2.3	$\varepsilon$ - $\text{\TeX}$ detection . . . . .	10
2.4	Help macros . . . . .	10
2.5	Expand number . . . . .	11
2.6	Normalize expanded number . . . . .	12
2.7	Num . . . . .	13
2.8	Inv, Abs, Sgn . . . . .	13
2.9	Cmp, Min, Max . . . . .	14
2.10	Odd . . . . .	16
2.11	Inc, Dec . . . . .	17
2.12	Add, Sub . . . . .	20
2.13	Shl, Shr . . . . .	26
2.14	$\backslash\text{BIC@Tim}$ . . . . .	29
2.15	Mul . . . . .	31
2.16	Sqr . . . . .	33
2.17	Fac . . . . .	33
2.18	Pow . . . . .	34
2.18.1	Help macros . . . . .	37
2.18.2	Recursive calculation . . . . .	38
2.19	Div . . . . .	39
2.20	Mod . . . . .	45

<b>3</b>	<b>Test</b>	<b>48</b>
3.1	Catcode checks for loading . . . . .	48
3.2	Macro tests . . . . .	49
3.2.1	Preamble with test macro definitions . . . . .	49
3.2.2	Time . . . . .	53
3.2.3	Test sets . . . . .	54
<b>4</b>	<b>Installation</b>	<b>63</b>
4.1	Download . . . . .	63
4.2	Bundle installation . . . . .	64
4.3	Package installation . . . . .	64
4.4	Refresh file name databases . . . . .	64
4.5	Some details for the interested . . . . .	64
<b>5</b>	<b>History</b>	<b>65</b>
[2007/09/27 v1.0]	. . . . .	65
[2007/11/11 v1.1]	. . . . .	65
[2011/01/30 v1.2]	. . . . .	65
[2012/04/08 v1.3]	. . . . .	65
[2016/05/16 v1.4]	. . . . .	65
<b>6</b>	<b>Index</b>	<b>65</b>

# The bitset package

## Abstract

This package defines and implements the data type bit set, a vector of bits. The size of the vector may grow dynamically. Individual bits can be manipulated.

<b>1</b>	<b>Documentation</b>	<b>3</b>
1.1	Introduction . . . . .	3
1.2	Glossary . . . . .	3
1.3	Design principles . . . . .	4
1.4	Operator overview . . . . .	5
1.5	Package loading . . . . .	5
1.6	Operators . . . . .	5
1.6.1	Miscellaneous . . . . .	6
1.6.2	Import . . . . .	6
1.6.3	Export . . . . .	7
1.6.4	Logical operators . . . . .	7
1.6.5	Shifting . . . . .	7
1.6.6	Bit manipulation . . . . .	8
1.6.7	Bit retrieval . . . . .	8
1.6.8	Bit set properties . . . . .	9
1.6.9	Queries . . . . .	9
<b>2</b>	<b>Implementation</b>	<b>9</b>
2.1	Reload check and package identification . . . . .	10
2.2	Catcodes . . . . .	11
2.3	Package loading . . . . .	12
2.4	Help macros . . . . .	12
2.4.1	Number constant . . . . .	12
2.4.2	General basic macros . . . . .	12
2.4.3	Tail recursion . . . . .	13
2.4.4	Check macros . . . . .	13
2.5	Miscellaneous . . . . .	14
2.6	Import . . . . .	14
2.6.1	From binary number . . . . .	14
2.6.2	From octal/hex number . . . . .	15
2.6.3	From decimal number . . . . .	17
2.7	Export . . . . .	18
2.7.1	To binary number . . . . .	18
2.7.2	To octal/hexadecimal number . . . . .	19
2.7.3	To decimal number . . . . .	22
2.8	Logical operators . . . . .	24
2.8.1	\bitsetAnd . . . . .	24
2.8.2	\bitsetAndNot . . . . .	25
2.8.3	\bitsetOr . . . . .	26
2.8.4	\bitsetXor . . . . .	27

2.8.5	Shifting	28
2.8.6	<code>\bitsetShiftLeft</code>	28
2.8.7	<code>\bitsetShiftRight</code>	28
2.9	Bit manipulation	29
2.9.1	Clear operation	30
2.9.2	Set operation	31
2.9.3	Flip operation	31
2.9.4	Range operators	32
2.10	Bit retrieval	34
2.10.1	<code>\bitsetGet</code>	34
2.10.2	<code>\bitsetNextClearBit</code> , <code>\bitsetNextSetBit</code>	35
2.10.3	<code>\bitsetGetSetBitList</code>	37
2.11	Bit set properties	38
2.12	Queries	39
<b>3</b>	<b>Test</b>	<b>40</b>
3.1	Catcode checks for loading	40
3.2	Macro tests	42
3.2.1	Preamble	42
3.2.2	Time	43
3.2.3	Detection of unwanted space	43
3.2.4	Test macros	44
3.2.5	Test sets	45
<b>4</b>	<b>Installation</b>	<b>61</b>
4.1	Download	61
4.2	Bundle installation	61
4.3	Package installation	62
4.4	Refresh file name databases	62
4.5	Some details for the interested	62
<b>5</b>	<b>History</b>	<b>63</b>
	[2007/09/28 v1.0]	63
	[2011/01/30 v1.1]	63
	[2016/05/16 v1.2]	63
<b>6</b>	<b>Index</b>	<b>63</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**.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Bitmap image parsers . . . . .	3
1.2.1	User interface . . . . .	3
1.2.2	Hints . . . . .	4
1.2.3	Test program . . . . .	4
1.2.4	Interface for programmers . . . . .	4
1.3	Improved bitmap inclusion . . . . .	4
<b>2</b>	<b>Implementation</b>	<b>5</b>
2.1	Basic package <b>bmpsize-base</b> . . . . .	5
2.2	Bitmap formats . . . . .	12
2.2.1	png . . . . .	12
2.2.2	jpg . . . . .	13
2.2.3	bmp . . . . .	22
2.2.4	gif . . . . .	24
2.2.5	tiff . . . . .	25
2.2.6	pnm . . . . .	28
2.2.7	pam . . . . .	32
2.2.8	xpm . . . . .	39
2.2.9	tga . . . . .	44
2.2.10	pcx . . . . .	46
2.2.11	msp . . . . .	47
2.2.12	sgi . . . . .	48
2.3	Package <b>bmpsize</b> . . . . .	49
2.4	Drivers . . . . .	52
2.4.1	dvips . . . . .	52
2.4.2	dvipdfm and dvipdfmx . . . . .	54
2.5	Test program <b>bmpsize-test.tex</b> . . . . .	57
<b>3</b>	<b>Installation</b>	<b>59</b>
3.1	Download . . . . .	59
3.2	Bundle installation . . . . .	60
3.3	Package installation . . . . .	60
3.4	Refresh file name databases . . . . .	60
3.5	Some details for the interested . . . . .	60

<b>4</b>	<b>References</b>	<b>61</b>
4.1	URLs for bitmap format descriptions . . . . .	61
4.1.1	JPEG . . . . .	61
4.1.2	PNG . . . . .	61
4.1.3	GIF . . . . .	61
4.1.4	BMP . . . . .	61
4.1.5	PCX . . . . .	61
4.1.6	MSP . . . . .	62
4.1.7	TIFF . . . . .	62
4.1.8	TGA . . . . .	62
4.1.9	SGI . . . . .	62
4.1.10	WMF . . . . .	62
4.1.11	XPM . . . . .	62
<b>5</b>	<b>History</b>	<b>62</b>
	[2006/08/24 v1.0] . . . . .	62
	[2007/02/18 v1.1] . . . . .	62
	[2007/04/11 v1.2] . . . . .	62
	[2007/05/01 v1.3] . . . . .	63
	[2007/11/11 v1.4] . . . . .	63
	[2008/08/11 v1.5] . . . . .	63
	[2009/09/04 v1.6] . . . . .	63
	[2016/05/16 v1.7] . . . . .	63
<b>6</b>	<b>Index</b>	<b>63</b>

# The bookmark package

## Abstract

This package implements a new bookmark (outline) organization for package `hyperref`. Bookmark properties such as style and color can now be set. Other action types are available (URI, GoToR, Named). The bookmarks are generated in the first compile run. Package `hyperref` uses two runs.

<b>1</b>	<b>Documentation</b>	<b>3</b>
1.1	Introduction	3
1.2	Options	3
1.2.1	Options <code>draft</code> and <code>final</code>	4
1.2.2	Driver options	4
1.2.3	Layout options	4
1.2.4	Action options	5
1.2.5	Level options	6
1.2.6	Style definitions	6
1.2.7	Hook support	7
1.3	Compatibility with <code>hyperref</code>	7
1.4	Adding bookmarks at the end	8
1.5	Limitations/Todos	8
<b>2</b>	<b>Example</b>	<b>9</b>
<b>3</b>	<b>Implementation</b>	<b>10</b>
3.1	Package	10
3.1.1	Requirements	10
3.1.2	Package options	12
3.1.3	Action options	17
3.1.4	Option <code>atend</code>	21
3.1.5	Option <code>style</code>	21
3.1.6	Options for source file location	22
3.1.7	Hook support	22
3.1.8	Driver setup and loading	22
3.1.9	Compatibility for <code>hyperref</code>	25
3.2	Driver for <code>dvipdfm</code>	26
3.3	Driver for <code>VT<sub>E</sub>X</code>	29
3.4	Driver for <code>pdf<sub>T</sub>E<sub>X</sub></code>	34
3.5	Drivers with <code>pdfmark</code> specials	36
3.5.1	Driver <code>dvips</code>	36
3.5.2	Driver <code>dvipsone</code>	37
3.5.3	Driver <code>textures</code>	37
3.5.4	Common part	37
3.6	Common part for <code>pdf<sub>t</sub>e<sub>x</sub></code> and <code>pdfmark</code>	40
3.6.1	Write auxiliary file	40
3.6.2	Read auxiliary data	42
3.7	Option <code>atend</code>	43

3.7.1	Hook	43
3.7.2	Drivers using hooks at end of document	43
3.7.3	Drivers using \AtEndDvi	43
<b>4</b>	<b>Installation</b>	<b>44</b>
4.1	Download	44
4.2	Bundle installation	44
4.3	Package installation	44
4.4	Refresh file name databases	45
4.5	Some details for the interested	45
<b>5</b>	<b>References</b>	<b>45</b>
<b>6</b>	<b>History</b>	<b>46</b>
[2007/02/19 v0.1]		46
[2007/02/20 v0.2]		46
[2007/02/21 v0.3]		46
[2007/02/22 v0.4]		46
[2007/03/02 v0.5]		46
[2007/03/03 v0.6]		46
[2007/03/07 v0.7]		46
[2007/04/09 v0.8]		46
[2007/04/25 v0.9]		46
[2007/05/29 v1.0]		47
[2007/07/13 v1.1]		47
[2007/09/25 v1.2]		47
[2008/08/08 v1.3]		47
[2008/09/13 v1.4]		47
[2009/08/13 v1.5]		47
[2009/12/06 v1.6]		47
[2009/12/07 v1.7]		47
[2009/12/17 v1.8]		47
[2010/03/30 v1.9]		47
[2010/04/03 v1.10]		47
[2010/04/04 v1.11]		47
[2010/04/08 v1.12]		48
[2010/07/23 v1.13]		48
[2010/09/02 v1.14]		48
[2010/09/25 v1.15]		48
[2010/10/19 v1.16]		48
[2010/10/25 v1.17]		48
[2010/11/05 v1.18]		48
[2011/03/20 v1.19]		48
[2011/04/13 v1.20]		48
[2011/04/21 v1.21]		48
[2011/05/13 v1.22]		48

[2011/09/19 v1.23]	49
[2011/12/02 v1.24]	49
[2016/05/16 v1.25]	49
[2016/05/17 v1.26]	49
[2019/06/04 v1.27]	49
<b>7 Index</b>	<b>49</b>

# The catchfile package

## Abstract

This package catches the contents of a file and puts it in a macro. It requires  $\varepsilon$ -TeX. Both L<sup>A</sup>T<sub>E</sub>X and plain-T<sub>E</sub>X are supported.

<b>1</b>	<b>Documentation</b>	<b>2</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	3
2.3	Preparations . . . . .	4
2.4	Looking for primitive <code>\input</code> . . . . .	4
2.5	Input file check . . . . .	5
2.6	Catch file contents . . . . .	6
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
3.2	L <sup>A</sup> T <sub>E</sub> X . . . . .	9
3.3	plain T <sub>E</sub> X . . . . .	11
<b>4</b>	<b>Installation</b>	<b>12</b>
4.1	Download . . . . .	12
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	13
4.4	Refresh file name databases . . . . .	13
4.5	Some details for the interested . . . . .	13
<b>5</b>	<b>History</b>	<b>14</b>
	[2007/05/30 v1.0] . . . . .	14
	[2007/09/09 v1.1] . . . . .	14
	[2007/11/11 v1.2] . . . . .	14
	[2010/03/01 v1.3] . . . . .	14
	[2010/04/08 v1.4] . . . . .	14
	[2010/04/28 v1.5] . . . . .	14
	[2011/03/01 v1.6] . . . . .	14
	[2016/05/16 v1.7] . . . . .	14
<b>6</b>	<b>Index</b>	<b>15</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>
1.1	Example . . . . .	1
<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>
[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.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Background . . . . .	1
1.2	Usage . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Download . . . . .	4
3.2	Bundle installation . . . . .	5
3.3	Package installation . . . . .	5
3.4	Refresh file name databases . . . . .	5
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>
1.1	Introduction . . . . .	1
1.2	Symbols . . . . .	2
1.3	Fine tuning . . . . .	3
1.3.1	Example . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Identification . . . . .	3
2.2	Distance control . . . . .	3
2.3	Centered colons . . . . .	3
2.4	Combined symbols . . . . .	4
<b>3</b>	<b>Installation</b>	<b>5</b>
3.1	Download . . . . .	5
3.2	Bundle installation . . . . .	5
3.3	Package installation . . . . .	6
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>7</b>
	[2006/08/01 v1.0] . . . . .	7
	[2016/05/16 v1.1] . . . . .	7
<b>6</b>	<b>Index</b>	<b>7</b>

# 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 coor stack space”.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
1.2	Usage . . . . .	2
1.2.1	With $\varepsilon$ -T <sub>E</sub> X . . . . .	2
1.2.2	Without $\varepsilon$ -T <sub>E</sub> X . . . . .	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 . . . . .	4
3.4	Refresh file name databases . . . . .	4
3.5	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>4</b>
[2000/08/31 v1.0]	. . . . .	4
[2006/02/20 v1.1]	. . . . .	5
[2008/08/11 v1.2]	. . . . .	5
[2016/05/16 v1.3]	. . . . .	5
<b>5</b>	<b>Index</b>	<b>5</b>

# The embedfile package

## Abstract

This package embeds files to a PDF document. Currently the only supported driver is pdfTeX >= 1.30 in PDF mode.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.1.1	Future development . . . . .	2
1.2	User interface . . . . .	3
1.3	Collection support (PDF 1.7) . . . . .	4
1.4	Export of object references . . . . .	5
1.4.1	Example . . . . .	6
1.5	Examples . . . . .	6
1.5.1	plain TeX . . . . .	6
1.5.2	Collection example . . . . .	7
1.6	Package dtx-attach . . . . .	8
<b>2</b>	<b>Implementation</b>	<b>8</b>
2.1	Reload check and package identification . . . . .	8
2.2	Catcodes . . . . .	9
2.3	Tools . . . . .	10
2.4	Check for recent pdfTeX in PDF mode . . . . .	11
2.5	Strings . . . . .	11
2.6	Switches . . . . .	12
2.7	Key value definitions . . . . .	13
2.8	Embed the file . . . . .	18
<b>3</b>	<b>Test</b>	<b>23</b>
3.1	Catcode checks for loading . . . . .	23
3.2	Simple test . . . . .	25
3.3	Test for ini-TeX . . . . .	26
<b>4</b>	<b>Installation</b>	<b>26</b>
4.1	Download . . . . .	26
4.2	Bundle installation . . . . .	27
4.3	Package installation . . . . .	27
4.4	Refresh file name databases . . . . .	27
4.5	Some details for the interested . . . . .	27
<b>5</b>	<b>References</b>	<b>28</b>
<b>6</b>	<b>History</b>	<b>28</b>
	[2006/08/16 v1.0] . . . . .	28
	[2007/04/11 v1.1] . . . . .	28
	[2007/09/09 v1.2] . . . . .	28
	[2007/10/28 v2.0] . . . . .	28

[2007/10/29 v2.1]	28
[2007/11/11 v2.2]	29
[2007/11/25 v2.3]	29
[2009/09/25 v2.4]	29
[2010/03/01 v2.5]	29
[2011/04/13 v2.6]	29
[2016/05/15 v2.7]	29
[2018/11/01 v2.8]	29
<b>7 Index</b>	<b>29</b>

# 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.

<b>1</b>	<b>Usage</b>	<b>2</b>
1.1	Package options . . . . .	2
1.2	Examples . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and identification . . . . .	3
2.2	Help commands for plain compatibility . . . . .	4
2.3	User macros . . . . .	5
2.4	Suffix generation . . . . .	6
<b>3</b>	<b>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Download . . . . .	10
4.2	Bundle installation . . . . .	10
4.3	Package installation . . . . .	10
4.4	Refresh file name databases . . . . .	11
4.5	Some details for the interested . . . . .	11
<b>5</b>	<b>History</b>	<b>11</b>
	[2000/05/23 v1.0] . . . . .	11
	[2003/04/28 v1.1] . . . . .	12
	[2006/02/20 v1.2] . . . . .	12
	[2007/04/11 v1.3] . . . . .	12
	[2007/04/26 v1.4] . . . . .	12
	[2007/09/09 v1.5] . . . . .	12
	[2007/09/20 v1.6] . . . . .	12
	[2008/08/11 v1.7] . . . . .	12
	[2010/03/01 v1.8] . . . . .	12
	[2016/05/16 v1.9] . . . . .	12
<b>6</b>	<b>Index</b>	<b>12</b>

# The enparen package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	User macros . . . . .	2
1.2	Contexts . . . . .	3
1.3	Options . . . . .	3
1.4	Notes . . . . .	4
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Resources . . . . .	4
2.2	Contexts . . . . .	5
2.2.1	Stack for contexts . . . . .	5
2.2.2	Context user macros . . . . .	5
2.3	Symbols . . . . .	6
2.4	Main user macros . . . . .	7
2.5	Options . . . . .	8
2.6	Context settings . . . . .	8
2.7	At end of document . . . . .	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>
	[2012/01/07 v1.0] . . . . .	11
	[2016/05/16 v1.1] . . . . .	11
<b>6</b>	<b>Index</b>	<b>11</b>

# The eolgrab package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Examples . . . . .	2
1.1.1	Small L <sup>A</sup> T <sub>E</sub> X document as example . . . . .	4
1.1.2	L <sup>A</sup> T <sub>E</sub> X document with environments . . . . .	4
1.2	Limitations . . . . .	4
<b>2</b>	<b>Implementation</b>	<b>5</b>
2.1	Reload check and package identification . . . . .	5
2.2	Catcodes . . . . .	6
2.3	Resources . . . . .	7
2.4	Macro <code>\eolgrab</code> . . . . .	7
<b>3</b>	<b>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
3.2	Tests for plain T <sub>E</sub> X . . . . .	10
<b>4</b>	<b>Installation</b>	<b>11</b>
4.1	Download . . . . .	11
4.2	Bundle installation . . . . .	11
4.3	Package installation . . . . .	11
4.4	Refresh file name databases . . . . .	12
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>References</b>	<b>12</b>
<b>6</b>	<b>History</b>	<b>13</b>
	[2011/01/12 v1.0] . . . . .	13
	[2016/05/16 v1.1] . . . . .	13
<b>7</b>	<b>Index</b>	<b>13</b>



# The epstopdf package

## Abstract

This packages adds support of handling eps images to package `graphics` or `graphicx` with option `pdftex`. If an eps image is detected, `epstopdf` is automatically called to convert it to pdf format.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Requirements . . . . .	2
1.3	Usage . . . . .	3
1.4	Options . . . . .	4
1.5	Configuration . . . . .	5
1.5.1	System configuration file <code>epstopdf-sys.cfg</code> . . . . .	5
1.5.2	User configuration file <code>epstopdf.cfg</code> . . . . .	5
1.5.3	Conversion program . . . . .	5
1.6	Other image formats . . . . .	6
<b>2</b>	<b>Implementation</b>	<b>6</b>
2.1	Wrapper package . . . . .	6
2.1.1	Option handling . . . . .	8
2.2	Base package . . . . .	8
2.3	Preparations . . . . .	9
2.3.1	Relead check and identification . . . . .	9
2.3.2	Catcodes . . . . .	10
2.3.3	Load packages . . . . .	11
2.4	Checks . . . . .	11
2.5	Package loading . . . . .	11
2.6	Options . . . . .	12
2.6.1	Default setting . . . . .	12
2.7	Make and verbose . . . . .	12
2.8	Adding conversion support . . . . .	13
2.9	Declare graphics rule . . . . .	16
<b>3</b>	<b>Test</b>	<b>17</b>
3.1	Preface for standard catcode check . . . . .	17
3.2	Catcode checks for loading . . . . .	17
<b>4</b>	<b>Installation</b>	<b>19</b>
4.1	Download . . . . .	19
4.2	Bundle installation . . . . .	19
4.3	Package installation . . . . .	19
4.4	Refresh file name databases . . . . .	20
4.5	Some details for the interested . . . . .	20

<b>5 History</b>	<b>20</b>
[2001/01/06 v1.0]	20
[2001/02/04 v1.1]	20
[2006/02/20 v1.2]	20
[2006/08/26 v1.3]	21
[2007/04/26 v1.4]	21
[2007/10/02 v1.5]	21
[2007/11/11 v1.6]	21
[2008/05/06 v1.7]	21
[2009/03/01 v1.8]	21
[2009/07/06 v1.9]	21
[2009/07/07 v1.10]	21
[2009/07/12 v2.0]	21
[2009/07/15 v2.1]	22
[2009/07/16 v2.2]	22
[2009/09/24 v2.3]	22
[2009/10/17 v2.4]	22
[2016/05/15 v2.5]	22
[2016/05/15 v2.6]	22
<b>6 Index</b>	<b>22</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>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
3.2	Macro tests . . . . .	9
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Download . . . . .	10
4.2	Bundle installation . . . . .	10
4.3	Package installation . . . . .	10
4.4	Refresh file name databases . . . . .	11
4.5	Some details for the interested . . . . .	11
<b>5</b>	<b>History</b>	<b>11</b>
	[2007/05/06 v1.0] . . . . .	11
	[2007/09/09 v1.1] . . . . .	11
	[2007/12/12 v1.2] . . . . .	11
	[2010/01/28 v1.3] . . . . .	11
	[2011/01/30 v1.4] . . . . .	11
	[2011/02/16 v1.5] . . . . .	12
	[2016/05/16 v1.6] . . . . .	12
<b>6</b>	<b>Index</b>	<b>12</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>Test</b>	<b>9</b>
3.1	Catcode checks for loading . . . . .	9
3.2	Test calculations . . . . .	11
<b>4</b>	<b>Installation</b>	<b>13</b>
4.1	Download . . . . .	13
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	14
4.4	Refresh file name databases . . . . .	14
4.5	Some details for the interested . . . . .	14
<b>5</b>	<b>History</b>	<b>14</b>
	[2012/04/08 v1.0] . . . . .	14
	[2016/05/16 v1.1] . . . . .	15
<b>6</b>	<b>Index</b>	<b>15</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 . . . . .	7
<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>8</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>Test</b>	<b>8</b>
3.1	Catcode checks for loading	8
3.2	Test of non-expand method	9
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Download	10
4.2	Bundle installation	10
4.3	Package installation	11
4.4	Refresh file name databases	11
4.5	Some details for the interested	11
<b>5</b>	<b>References</b>	<b>12</b>
<b>6</b>	<b>History</b>	<b>12</b>
	[2009/12/08 v1.0]	12
	[2009/12/12 v1.1]	12
	[2009/12/13 v1.2]	12
	[2009/12/18 v1.3]	12
	[2010/12/03 v1.4]	12
	[2016/05/16 v1.5]	12
<b>7</b>	<b>Index</b>	<b>12</b>

# The grfext package

## Abstract

This package provides macros for adding and reordering graphics extensions of package `graphics`.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	User interface . . . . .	2
1.3	Package loading . . . . .	2
1.4	Option support for package <code>graphicx</code> . . . . .	3
1.5	plain <code>T<sub>E</sub>X</code> . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Relead check and identification . . . . .	3
2.2	Catcodes . . . . .	5
2.3	plain <code>T<sub>E</sub>X</code> . . . . .	5
2.4	Add . . . . .	5
2.5	Check . . . . .	6
2.6	Remove . . . . .	7
2.7	Print . . . . .	7
2.8	Defining options for package <code>graphicx</code> . . . . .	8
<b>3</b>	<b>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
3.2	Macro tests . . . . .	10
3.2.1	Preamble . . . . .	10
3.2.2	Detection of unwanted space . . . . .	10
3.2.3	Generic test macros . . . . .	11
3.2.4	Test for <code>\AppendGraphicsExtensions</code> . . . . .	11
3.2.5	Test for <code>\PrependGraphicsExtensions</code> . . . . .	12
3.2.6	Test for <code>\RemoveGraphicsExtensions</code> . . . . .	12
<b>4</b>	<b>Installation</b>	<b>13</b>
4.1	Download . . . . .	13
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	13
4.4	Refresh file name databases . . . . .	14
4.5	Some details for the interested . . . . .	14
<b>5</b>	<b>References</b>	<b>14</b>
<b>6</b>	<b>History</b>	<b>14</b>
	[2007/09/30 v1.0] . . . . .	14
	[2010/08/19 v1.1] . . . . .	15
	[2016/05/16 v1.2] . . . . .	15
<b>7</b>	<b>Index</b>	<b>15</b>

# The hologo package

## Abstract

This package starts a collection of logos with support for bookmarks strings.

<b>1</b>	<b>Documentation</b>	<b>3</b>
1.1	Logo macros	3
1.2	Setup macros	4
1.3	Options	5
1.4	Driver options	5
1.5	Font setup	6
1.5.1	Font order	6
1.6	Additional user macros	7
1.7	Supported contexts	7
1.8	Example	7
<b>2</b>	<b>Implementation</b>	<b>10</b>
2.1	Logo list	12
2.2	Load resources	13
2.3	Setup macros	14
2.4	Options	14
2.5	Break/no-break support	16
2.6	Font support	17
2.6.1	Font defaults	18
2.6.2	Font setup	20
2.7	Generic logo commands	21
2.7.1	<code>\hologo</code> and friends	21
2.7.2	<code>\hologoRobust</code> and friends	23
2.8	Helpers	25
2.8.1	Text subscript	26
2.9	TeX and friends	27
2.9.1	TeX	27
2.9.2	plain TeX	28
2.9.3	L <sup>A</sup> TeX	29
2.9.4	(L <sup>A</sup> )TeX	30
2.9.5	L <sup>A</sup> TeX 2 <sub>ε</sub>	32
2.9.6	L <sup>A</sup> TeX3	33
2.9.7	L <sup>A</sup> TeXML	34
2.9.8	ε-TeX	34
2.9.9	iniTeX	35
2.9.10	virTeX	35
2.9.11	SLiTeX	36
2.9.12	LuaTeX	39
2.9.13	LuaL <sup>A</sup> TeX	39
2.9.14	X <sub>q</sub> TeX, X <sub>q</sub> L <sup>A</sup> TeX	39
2.9.15	pdfTeX, pdfL <sup>A</sup> TeX	44
2.9.16	VTeX	44



2.9.17	$\mathcal{AMS}$ , ...	45
2.9.18	BibTeX	46
2.9.19	BibTeX8	48
2.9.20	ConTeXt	48
2.9.21	emTeX	49
2.9.22	$\varepsilon_X$ TeX	50
2.9.23	MiKTeX	51
2.9.24	OzTeX and friends	51
2.9.25	PCTeX	52
2.9.26	PiCTeX	52
2.9.27	teTeX	54
2.9.28	TeX4ht	54
2.9.29	SageTeX	54
2.10	METAFONT and friends	54
2.11	Others	55
2.11.1	biber	55
2.11.2	KOMA-Script	55
2.11.3	L <sup>A</sup> X	57
2.11.4	$\mathcal{N}\mathcal{T}\mathcal{S}$	57
2.11.5	T <sub>T</sub> H (TeX to HTML translator)	58
2.11.6	Hàn Thế Thành	58
2.12	Driver detection	59
2.12.1	Reflect box macros	62
<b>3</b>	<b>Test</b>	<b>64</b>
3.1	Catcode checks for loading	64
3.2	Spacefactor	66
3.3	Complete list	67
<b>4</b>	<b>Installation</b>	<b>68</b>
4.1	Download	68
4.2	Bundle installation	69
4.3	Package installation	69
4.4	Refresh file name databases	69
4.5	Some details for the interested	69
<b>5</b>	<b>References</b>	<b>70</b>
<b>6</b>	<b>History</b>	<b>70</b>
[2010/04/08 v1.0]		70
[2010/04/16 v1.1]		70
[2010/04/24 v1.2]		71
[2010/11/21 v1.3]		71
[2011/03/25 v1.4]		71
[2011/04/21 v1.5]		71
[2011/10/01 v1.6]		71
[2011/11/22 v1.7]		71

[2011/11/29 v1.8]	71
[2011/12/21 v1.9]	71
[2012/04/26 v1.10]	72
[2016/05/12 v1.11]	72
[2016/05/16 v1.12]	72
[2017/05/01 v1.13]	72
<b>7 Index</b>	<b>72</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	2
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 <b>doc</b>	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
<b>5 Index</b>	<b>10</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>Test</b>	<b>6</b>
3.1	Catcode checks for loading . . . . .	6
<b>4</b>	<b>Installation</b>	<b>8</b>
4.1	Download . . . . .	8
4.2	Bundle installation . . . . .	9
4.3	Package installation . . . . .	9
4.4	Refresh file name databases . . . . .	9
4.5	Some details for the interested . . . . .	10
<b>5</b>	<b>References</b>	<b>10</b>
<b>6</b>	<b>History</b>	<b>10</b>
	[2011/01/30 v1.0] . . . . .	10
	[2011/06/24 v1.1] . . . . .	10
	[2012/05/28 v1.2] . . . . .	11
	[2016/05/16 v1.3] . . . . .	11
<b>7</b>	<b>Index</b>	<b>11</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 . . . . .	6
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>Test</b>	<b>22</b>
3.1	Test for package attachfile2 . . . . .	26
3.2	Test for package xcolor . . . . .	29
3.2.1	Test for \@frameb@x/\fbox . . . . .	30
<b>4</b>	<b>Installation</b>	<b>30</b>
4.1	Download . . . . .	30
4.2	Bundle installation . . . . .	30
4.3	Package installation . . . . .	30
4.4	Refresh file name databases . . . . .	31
4.5	Some details for the interested . . . . .	31
<b>5</b>	<b>History</b>	<b>31</b>
	[2007/04/09 v1.0] . . . . .	31
	[2007/04/11 v1.1] . . . . .	32
	[2008/07/29 v1.2] . . . . .	32
	[2008/08/01 v1.3] . . . . .	32
	[2008/09/08 v1.4] . . . . .	32
	[2009/10/02 v1.5] . . . . .	32
	[2009/12/12 v1.6] . . . . .	32
	[2011/01/30 v1.7] . . . . .	32
	[2016/05/16 v1.8] . . . . .	32



# 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]	. . . . .	10
[2016/05/16 v2.5]	. . . . .	10
<b>5</b>	<b>Index</b>	<b>10</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 . . . . .	4
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] . . . . .	12
	[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	5
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	9
3.11	<code>\PrintDescribeMacro</code>	12
3.12	<code>\PrintMacroName</code>	12
3.13	<code>\theCodelineNo</code>	12
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>	14
<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 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 . . . . .	3
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] . . . . .	8
<b>6</b>	<b>Index</b>	<b>8</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>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
3.2	Main tests . . . . .	8
<b>4</b>	<b>Installation</b>	<b>9</b>
4.1	Download . . . . .	9
4.2	Bundle installation . . . . .	9
4.3	Package installation . . . . .	10
4.4	Refresh file name databases . . . . .	10
4.5	Some details for the interested . . . . .	10
<b>5</b>	<b>History</b>	<b>11</b>
	[2008/06/07 v0.1] . . . . .	11
	[2008/06/09 v0.2] . . . . .	11
	[2016/05/16 v0.3] . . . . .	11
<b>6</b>	<b>Index</b>	<b>11</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 . . . . .	6
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>Test</b>	<b>9</b>
3.1	Catcode checks for loading . . . . .	9
3.2	Test with L <sup>A</sup> T <sub>E</sub> X . . . . .	10
3.3	Test with plain T <sub>E</sub> X and $\varepsilon$ -T <sub>E</sub> X . . . . .	12
3.4	Test with plain T <sub>E</sub> X and without $\varepsilon$ -T <sub>E</sub> X/pdfT <sub>E</sub> X . . . . .	12
<b>4</b>	<b>Installation</b>	<b>14</b>
4.1	Download . . . . .	14
4.2	Bundle installation . . . . .	14
4.3	Package installation . . . . .	14
4.4	Refresh file name databases . . . . .	15
4.5	Some details for the interested . . . . .	15
<b>5</b>	<b>Acknowledgement</b>	<b>15</b>
<b>6</b>	<b>History</b>	<b>15</b>
	[2007/04/10 v1.0] . . . . .	15
	[2007/04/11 v1.1] . . . . .	15
	[2007/04/12 v1.2] . . . . .	16
	[2007/04/26 v1.3] . . . . .	16
	[2007/09/09 v1.4] . . . . .	16
	[2007/11/11 v1.5] . . . . .	16
	[2016/05/16 v1.6] . . . . .	16
	[2018/01/21 v1.7] . . . . .	16
<b>7</b>	<b>Index</b>	<b>16</b>



# The infwarerr package

## Abstract

This package provides a complete set of macros for informations, warnings and error messages with support for plain-TeX.

<b>1</b>	<b>Documentation</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	3
2.3	L <sup>A</sup> T <sub>E</sub> X detection . . . . .	4
2.4	Version for L <sup>A</sup> T <sub>E</sub> X . . . . .	4
2.5	Version for plain T <sub>E</sub> X . . . . .	5
<b>3</b>	<b>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
3.2	Macro tests . . . . .	10
<b>4</b>	<b>Installation</b>	<b>13</b>
4.1	Download . . . . .	13
4.2	Bundle installation . . . . .	14
4.3	Package installation . . . . .	14
4.4	Refresh file name databases . . . . .	14
4.5	Some details for the interested . . . . .	14
<b>5</b>	<b>History</b>	<b>15</b>
	[2007/04/26 v1.0] . . . . .	15
	[2007/06/14 v1.1] . . . . .	15
	[2007/09/09 v1.2] . . . . .	15
	[2010/04/08 v1.3] . . . . .	15
	[2016/05/16 v1.4] . . . . .	15
<b>6</b>	<b>Index</b>	<b>15</b>

# The inputenx package

## Abstract

This package provides input encodings using standard mappings and covers nearly all slots. Thus it serves as more uptodate replacement for package inputenc.

<b>1</b>	<b>Documentation</b>	<b>3</b>
1.1	Definition files	3
1.2	Unicode	5
1.3	Verbatim	5
1.4	Math	5
1.5	Setting the input encoding	5
1.5.1	Encoding as package option	5
1.5.2	\InputEncoding	5
1.5.3	Hooks	6
<b>2</b>	<b>Implementation</b>	<b>6</b>
2.1	Identification	6
2.2	Encoding names	6
2.2.1	Record current encoding names	6
2.2.2	Catcode settings for file reading	6
2.2.3	Aliases for encoding names	7
2.3	Package options	8
2.3.1	Declare and process options	8
2.3.2	Load inputenc with encoding options	8
2.3.3	\InputEncoding	9
2.3.4	Option math	10
2.4	Alias encoding file	10
2.5	Encoding files	11
2.5.1	Encoding ascii	11
2.5.2	Encoding verbatim	11
2.5.3	Encoding atarist	12
2.5.4	Encoding iso-8859-1	16
2.5.5	Encoding iso-8859-2	19
2.5.6	Encoding iso-8859-3	21
2.5.7	Encoding iso-8859-4	24
2.5.8	Encoding iso-8859-5	26
2.5.9	Encoding iso-8859-8	28
2.5.10	Encoding iso-8859-9	30
2.5.11	Encoding iso-8859-10	33
2.5.12	Encoding iso-8859-13	35
2.5.13	Encoding iso-8859-14	38
2.5.14	Encoding iso-8859-15	40
2.5.15	Encoding iso-8859-16	42
2.5.16	Encoding cp437	44
2.5.17	Encoding cp850	49

2.5.18	Encoding cp852	52
2.5.19	Encoding cp855	55
2.5.20	Encoding cp858	58
2.5.21	Encoding cp865	62
2.5.22	Encoding cp866	66
2.5.23	Encoding cp1250	69
2.5.24	Encoding cp1251	72
2.5.25	Encoding cp1252	75
2.5.26	Encoding cp1255	78
2.5.27	Encoding cp1257	80
2.5.28	Encoding dec-mcs	84
2.5.29	Encoding koi8-r	86
2.5.30	Encoding mac-centeuro	89
2.5.31	Encoding mac-cyrillic	92
2.5.32	Encoding mac-roman	95
2.5.33	Encoding nextstep	99
2.5.34	Non-Unicode additions	102
2.6	Additions for <code>utf8enc.dfu</code>	102
2.7	Name list	107
2.8	Mapping Slot, UC to Encodings	107
2.9	Mapping UC to LICR	107
2.10	Math meaning declarations	107
2.11	Documentation files	109
2.11.1	List of known LICR commands	109
2.11.2	Commented additions for <code>utf8enc.dfu</code>	110
<b>3</b>	<b>Installation</b>	<b>111</b>
3.1	Download	111
3.2	Bundle installation	111
3.3	Package installation	111
3.4	Refresh file name databases	112
3.5	Some details for the interested	113
<b>4</b>	<b>References</b>	<b>113</b>
4.1	Mappings to Unicode	113
<b>5</b>	<b>History</b>	<b>114</b>
[2006/03/05 v1.0]		114
[2007/04/11 v1.1]		114
[2007/06/16 v1.2]		114
[2007/08/16 v1.3]		114
[2009/08/13 v1.4]		115
[2009/12/15 v1.5]		115
[2010/01/11 v1.6]		115
[2011/02/08 v1.7]		115
[2011/04/10 v1.8]		115

[2011/04/26 v1.9]	115
[2011/05/27 v1.10]	115
[2016/05/16 v1.11]	115
<b>6 Index</b>	<b>115</b>

# The intcalc package

## Abstract

This package provides expandable arithmetic operations with integers.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction	2
1.2	Conditions	3
1.2.1	Preconditions	3
1.2.2	Postconditions	3
1.3	Error handling	3
1.4	Operations	3
1.4.1	Num	4
1.4.2	Inv, Abs, Sgn	4
1.4.3	Min, Max, Cmp	4
1.4.4	Inc, Dec, Add, Sub	5
1.4.5	Shl, Shr	6
1.4.6	Mul, Sqr, Fac, Pow	6
1.4.7	Div, Mod	7
1.5	Interface for programmer	7
<b>2</b>	<b>Implementation</b>	<b>8</b>
2.1	Reload check and package identification	8
2.2	Catcodes	9
2.3	Macros independent of $\varepsilon$ -TeX	10
2.3.1	Abs, Sgn	10
2.3.2	Min, Max, Cmp	11
2.3.3	Fac	11
2.4	Implementation based on $\varepsilon$ -TeX	12
2.4.1	Num	12
2.4.2	Inv, Abs, Sgn	12
2.4.3	Min, Max, Cmp	12
2.4.4	Inc, Dec	13
2.4.5	Add, Sub	13
2.4.6	Shl, Shr	13
2.4.7	Mul, Sqr, Fac	14
2.4.8	Pow	14
2.4.9	Div, Mod	16
2.5	Implementation without $\varepsilon$ -TeX	18
2.5.1	Num	18
2.5.2	Inv, Abs, Sgn	19
2.5.3	Min, Max, Cmp	19
2.5.4	Inc, Dec	19
2.5.5	Add, Sub	22
2.5.6	Shl, Shr	29
2.5.7	\InCa@Tim	31
2.5.8	Mul	35

2.5.9	Sqr, Fac	36
2.5.10	Pow	37
2.5.11	Div	38
2.5.12	Mod	42
2.5.13	Help macros	44
<b>3</b>	<b>Test</b>	<b>44</b>
3.1	Catcode checks for loading	44
3.2	Macro tests	46
3.2.1	Preamble with test macro definitions	46
3.2.2	Time	50
3.2.3	Test 4: additional mod/div operations	50
3.2.4	Test sets	51
<b>4</b>	<b>Installation</b>	<b>60</b>
4.1	Download	60
4.2	Bundle installation	60
4.3	Package installation	61
4.4	Refresh file name databases	61
4.5	Some details for the interested	61
<b>5</b>	<b>History</b>	<b>62</b>
[2007/09/09 v1.0]		62
[2007/09/27 v1.1]		62
[2016/05/16 v1.2]		62
<b>6</b>	<b>Index</b>	<b>62</b>

# 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.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Motivation . . . . .	1
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Package loading . . . . .	4
2.3	Provide key defining macro . . . . .	4
<b>3</b>	<b>Test</b>	<b>5</b>
3.1	Catcode checks for loading . . . . .	5
<b>4</b>	<b>Installation</b>	<b>7</b>
4.1	Download . . . . .	7
4.2	Bundle installation . . . . .	7
4.3	Package installation . . . . .	7
4.4	Refresh file name databases . . . . .	7
4.5	Some details for the interested . . . . .	8
<b>5</b>	<b>References</b>	<b>8</b>
<b>6</b>	<b>History</b>	<b>8</b>
	[2010/03/01 v1.0] . . . . .	8
	[2010/08/19 v1.1] . . . . .	8
	[2011/01/30 v1.2] . . . . .	8
	[2011/04/07 v1.3] . . . . .	8
	[2016/05/16 v1.4] . . . . .	8
<b>7</b>	<b>Index</b>	<b>9</b>

# The kvoptions package

## Abstract

This package is intended for package authors who want to use options in key value format for their package options.

<b>1</b>	<b>Introduction</b>	<b>3</b>
1.1	The beginning . . . . .	3
1.2	Overview . . . . .	3
<b>2</b>	<b>Usage</b>	<b>4</b>
2.1	Process options . . . . .	4
2.1.1	<code>\ProcessKeyvalOptions</code> . . . . .	4
2.1.2	<code>\ProcessLocalKeyvalOptions</code> . . . . .	4
2.1.3	<code>\SetupKeyvalOptions</code> . . . . .	4
2.2	Option declarations . . . . .	5
2.2.1	<code>\DeclareStringOption</code> . . . . .	5
2.2.2	<code>\DeclareBoolOption</code> . . . . .	6
2.2.3	<code>\DeclareComplementaryOption</code> . . . . .	6
2.2.4	<code>\DeclareVoidOption</code> . . . . .	7
2.2.5	<code>\DeclareDefaultOption</code> . . . . .	7
2.2.6	Local options . . . . .	7
2.2.7	Dynamic options . . . . .	7
2.2.8	<code>\DisableKeyvalOption</code> . . . . .	8
2.2.9	<code>\AddToKeyvalOption</code> . . . . .	9
2.3	Global vs. local options . . . . .	9
2.4	Summary of internal macros . . . . .	9
2.5	plain <code>T<sub>E</sub>X</code> . . . . .	10
<b>3</b>	<b>Example</b>	<b>10</b>
<b>4</b>	<b>Package options</b>	<b>12</b>
4.1	Package <code>kvoptions-patch</code> . . . . .	12
4.2	Option <code>debugshow</code> . . . . .	13
<b>5</b>	<b>Limitations</b>	<b>14</b>
5.1	Compatibility . . . . .	14
5.1.1	Package <code>kvoptions-patch</code> vs. package <code>xkvltxp</code> . . . . .	14
5.2	Limitations . . . . .	14
5.2.1	Option comparisons . . . . .	14
5.2.2	Option list parsing with package <code>kvoptions-patch</code> . . . . .	14
<b>6</b>	<b>Implementation</b>	<b>15</b>
6.1	Preamble . . . . .	15
6.2	Option declaration macros . . . . .	18
6.2.1	<code>\SetupKeyvalOptions</code> . . . . .	18
6.2.2	<code>\DeclareBoolOption</code> . . . . .	19



6.2.3	<code>\DeclareStringOption</code>	21
6.2.4	<code>\DeclareVoidOption</code>	22
6.2.5	<code>\DeclareDefaultOption</code>	23
6.2.6	<code>\DeclareLocalOptions</code>	23
6.3	Dynamic options	23
6.3.1	<code>\DisableKeyvalOption</code>	23
6.4	Change option code	26
6.4.1	<code>\AddToKeyvalOption</code>	26
6.5	Process options	26
6.5.1	Get global options	26
6.5.2	<code>\ProcessKeyvalOptions</code>	27
6.5.3	<code>\ProcessLocalKeyvalOptions</code>	30
6.5.4	Helper macros	31
6.6	plain $\TeX$	32
6.7	Package <code>kvoptions-patch</code>	32
<b>7</b>	<b>Test</b>	<b>40</b>
7.1	Preface for standard catcode check	40
7.2	Catcode checks for loading	40
<b>8</b>	<b>Installation</b>	<b>44</b>
8.1	Download	44
8.2	Bundle installation	45
8.3	Package installation	45
8.4	Refresh file name databases	45
8.5	Some details for the interested	45
<b>9</b>	<b>References</b>	<b>46</b>
<b>10</b>	<b>History</b>	<b>46</b>
	[0000/00/00 v0.0]	46
	[2004/02/22 v1.0]	46
	[2006/02/16 v2.0]	47
	[2006/02/20 v2.1]	47
	[2006/06/01 v2.2]	47
	[2006/08/17 v2.3]	47
	[2006/08/22 v2.4]	47
	[2007/04/11 v2.5]	47
	[2007/05/06 v2.6]	47
	[2007/06/11 v2.7]	47
	[2007/10/02 v2.8]	47
	[2007/10/11 v2.9]	48
	[2007/10/18 v3.0]	48
	[2009/04/10 v3.1]	48
	[2009/07/17 v3.2]	48
	[2009/07/21 v3.3]	48
	[2009/08/13 v3.4]	48

[2009/12/04 v3.5]	48
[2009/12/08 v3.6]	48
[2010/02/22 v3.7]	48
[2010/07/23 v3.8]	48
[2010/12/02 v3.9]	48
[2010/12/23 v3.10]	48
[2011/06/30 v3.11]	49
[2016/05/16 v3.12]	49
<b>11 Index</b>	<b>49</b>

# 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.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Motivation	2
1.2	Normalizing key value lists	3
1.3	Parsing key value lists	4
1.4	Processing key value pairs	4
1.4.1	Processing similar to <code>keyval</code>	4
1.4.2	Processing similar to <code>\setkeys*</code> of package <code>xkeyval</code>	5
1.5	Default family handler	5
1.6	Put it all together	6
1.7	Comma separated lists	6
<b>2</b>	<b>Example</b>	<b>7</b>
<b>3</b>	<b>Implementation</b>	<b>8</b>
3.1	Identification	8
3.2	Package loading	10
3.3	Check for $\varepsilon$ -TeX	10
3.4	Generic help macros	11
3.5	Normalizing	11
3.6	Parsing key value lists	14
3.7	Parsing comma lists	15
3.8	Processing key value pairs	16
3.9	Error handling	18
3.10	Do it all	19
<b>4</b>	<b>Test</b>	<b>20</b>
4.1	Catcode checks for loading	20
4.2	Macro tests	22
4.2.1	Preamble	22
4.2.2	Time	22
4.2.3	Test sets	22
4.3	Tests for key value processing handler	26
<b>5</b>	<b>Installation</b>	<b>27</b>
5.1	Download	27
5.2	Bundle installation	27
5.3	Package installation	27
5.4	Refresh file name databases	28
5.5	Some details for the interested	28

<b>6</b>	<b>References</b>	<b>28</b>
<b>7</b>	<b>History</b>	<b>29</b>
	[2006/03/06 v1.0]	29
	[2006/10/19 v1.1]	29
	[2007/09/09 v1.2]	29
	[2007/09/29 v1.3]	29
	[2009/07/19 v1.4]	29
	[2009/07/30 v1.5]	29
	[2009/12/12 v1.6]	29
	[2009/12/22 v1.7]	29
	[2010/01/28 v1.8]	29
	[2010/03/01 v1.9]	29
	[2011/01/30 v1.10]	30
	[2011/03/03 v1.11]	30
	[2011/04/05 v1.12]	30
	[2011/04/07 v1.13]	30
	[2011/06/15 v1.14]	30
	[2011/10/18 v1.15]	30
	[2012/04/25 v1.16]	30
	[2016/05/16 v1.17]	30
<b>8</b>	<b>Index</b>	<b>30</b>

# The letltxmacro package

## Abstract

TeX's `\let` assignment does not work for L<sup>A</sup>T<sub>E</sub>X macros with optional arguments or for macros that are defined as robust macros by `\DeclareRobustCommand`. This package defines `\LetLtxMacro` that also takes care of the involved internal macros.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Supported macro definition commands . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Show cases . . . . .	2
2.1.1	<code>letltxmacro-showcases.tex</code> . . . . .	2
2.1.2	Result . . . . .	4
2.2	Package . . . . .	4
2.2.1	Catcodes and identification . . . . .	5
2.2.2	Main macros . . . . .	5
<b>3</b>	<b>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
3.2	Package tests . . . . .	9
<b>4</b>	<b>Installation</b>	<b>13</b>
4.1	Download . . . . .	13
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	14
4.4	Refresh file name databases . . . . .	14
4.5	Some details for the interested . . . . .	14
<b>5</b>	<b>History</b>	<b>14</b>
	[2008/06/09 v1.0] . . . . .	14
	[2008/06/12 v1.1] . . . . .	15
	[2008/06/13 v1.2] . . . . .	15
	[2008/06/24 v1.3] . . . . .	15
	[2010/09/02 v1.4] . . . . .	15
	[2016/05/16 v1.5] . . . . .	15
<b>6</b>	<b>Index</b>	<b>15</b>

# The listingsutf8 package

## Abstract

Package `listings` does not support files with multi-byte encodings such as UTF-8. In case of `\lstinputlisting` a simple workaround is possible if an one-byte encoding exists that the file can be converted to. Also  $\varepsilon$ -TeX and pdfTeX regardless of its mode are required.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	User interface . . . . .	2
1.2	Future . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Catcodes and identification . . . . .	2
2.2	Package options . . . . .	3
2.3	Check prerequisites . . . . .	4
2.4	Add support for UTF-8 . . . . .	4
2.4.1	Conversion . . . . .	4
2.4.2	Convert CR/LF pairs to LF . . . . .	5
2.4.3	Patch <code>\lst@InputListing</code> . . . . .	5
<b>3</b>	<b>Test</b>	<b>5</b>
3.1	Catcode checks for loading . . . . .	5
3.2	Test example for <code>latin1</code> . . . . .	6
<b>4</b>	<b>Installation</b>	<b>7</b>
4.1	Download . . . . .	7
4.2	Bundle installation . . . . .	7
4.3	Package installation . . . . .	7
4.4	Refresh file name databases . . . . .	8
4.5	Some details for the interested . . . . .	8
<b>5</b>	<b>References</b>	<b>8</b>
<b>6</b>	<b>History</b>	<b>9</b>
	[2007/10/22 v1.0] . . . . .	9
	[2007/11/11 v1.1] . . . . .	9
	[2011/11/10 v1.2] . . . . .	9
	[2016/05/16 v1.3] . . . . .	9
<b>7</b>	<b>Index</b>	<b>9</b>

# The ltxcmds package

## Abstract

The package ltxcmds exports some utility macros from the L<sup>A</sup>T<sub>E</sub>X kernel into a separate namespace and also provides them for other formats such as plain-T<sub>E</sub>X.

<b>1</b>	<b>Documentation</b>	<b>3</b>
1.1	Introduction . . . . .	3
1.2	Numbers . . . . .	3
1.3	Scratch registers . . . . .	3
1.4	Argument killers . . . . .	4
1.5	Argument grabbers . . . . .	4
1.6	List helpers . . . . .	5
1.7	Tail recursion . . . . .	5
1.8	Empty macro . . . . .	6
1.9	Characters . . . . .	6
1.10	Boolean switch . . . . .	6
1.11	Command definitions . . . . .	6
1.12	Stripping . . . . .	7
1.13	File management . . . . .	7
1.13.1	File extensions . . . . .	7
1.13.2	Load check . . . . .	7
1.13.3	Version date check . . . . .	8
1.14	Macro additions . . . . .	8
1.15	Next character detection . . . . .	8
1.16	\ltx@leavevmode, \ltx@mbox . . . . .	9
1.17	Expandable test for emptiness . . . . .	9
1.18	Stripping spaces . . . . .	9
1.19	Check for emptiness of boxes . . . . .	10
<b>2</b>	<b>Implementation</b>	<b>10</b>
2.1	Identification . . . . .	10
2.2	Numbers . . . . .	12
2.3	Scratch registers . . . . .	12
2.4	Argument killers . . . . .	14
2.5	Argument grabbers . . . . .	15
2.6	List helpers . . . . .	15
2.7	Tail recursion . . . . .	17
2.8	Empty macro . . . . .	17
2.9	Characters . . . . .	17
2.10	Boolean switch . . . . .	18
2.11	Command definitions . . . . .	19
2.12	Stripping . . . . .	20
2.13	File management . . . . .	20
2.13.1	File extensions . . . . .	20
2.13.2	Load check . . . . .	20

2.13.3	Version date check	21
2.14	Macro additions	22
2.15	Next character detection	23
2.16	<code>\ltx@leavevmode</code> , <code>\ltx@mbox</code>	24
2.17	Help macros	25
2.18	Expandable test for emptiness	25
2.18.1	Vanilla $\text{\TeX}$	25
2.18.2	With <code>\detokenize</code>	26
2.18.3	<code>\ltx@ifblank</code>	26
2.19	<code>\ltx@zapspace</code>	27
2.20	<code>\ltx@ifBoxEmpty</code>	27
<b>3</b>	<b>Test</b>	<b>28</b>
3.1	Catcode checks for loading	28
3.2	Test <code>\ltx@GobbleNum</code>	30
3.3	Test <code>\ltx@ifempty</code>	33
3.4	Test <code>\ltx@zap@space</code>	35
3.5	Test <code>\ltx@ifBoxEmpty</code>	36
3.6	Test for next character detection	38
3.7	Test for list helpers	41
<b>4</b>	<b>Installation</b>	<b>42</b>
4.1	Download	42
4.2	Bundle installation	43
4.3	Package installation	43
4.4	Refresh file name databases	43
4.5	Some details for the interested	43
<b>5</b>	<b>References</b>	<b>44</b>
<b>6</b>	<b>History</b>	<b>45</b>
[2009/08/05 v1.0]		45
[2009/12/12 v1.1]		45
[2010/01/28 v1.2]		45
[2010/03/01 v1.3]		45
[2010/03/09 v1.4]		45
[2010/04/08 v1.5]		45
[2010/04/16 v1.6]		45
[2010/04/26 v1.7]		45
[2010/09/11 v1.8]		45
[2010/10/25 v1.9]		46
[2010/10/31 v1.10]		46
[2010/11/12 v1.11]		46
[2010/12/02 v1.12]		46
[2010/12/04 v1.13]		46
[2010/12/07 v1.14]		46
[2010/12/12 v1.15]		46



[2011/02/04 v1.16]	46
[2011/02/05 v1.17]	46
[2011/03/16 v1.18]	46
[2011/04/14 v1.19]	46
[2011/04/18 v1.20]	46
[2011/08/22 v1.21]	47
[2011/11/09 v1.22]	47
[2016/05/16 v1.23]	47
<b>7 Index</b>	<b>47</b>

# The luacolor package

## Abstract

Package `luacolor` implements color support based on L<sup>A</sup>T<sub>E</sub>X's node attributes.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Usage . . . . .	2
1.3	Limitations . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Catcodes and identification . . . . .	3
2.2	Check for LuaT <sub>E</sub> X . . . . .	4
2.3	Check for disabled colors . . . . .	4
2.4	Load module and check version . . . . .	4
2.5	Find driver . . . . .	5
2.6	Attribute setting . . . . .	5
2.7	Whatsit insertion . . . . .	6
2.8	\pdfxform support . . . . .	6
2.9	Lua module . . . . .	7
2.9.1	Driver detection . . . . .	7
2.9.2	Color strings . . . . .	8
2.9.3	Attribute register . . . . .	8
2.9.4	Whatsit insertion . . . . .	9
<b>3</b>	<b>Test</b>	<b>11</b>
3.1	Catcode checks for loading . . . . .	11
3.2	Driver detection . . . . .	13
<b>4</b>	<b>Installation</b>	<b>13</b>
4.1	Download . . . . .	13
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	14
4.4	Refresh file name databases . . . . .	14
4.5	Some details for the interested . . . . .	14
<b>5</b>	<b>History</b>	<b>14</b>
	[2007/12/12 v1.0] . . . . .	14
	[2009/04/10 v1.1] . . . . .	15
	[2010/03/09 v1.2] . . . . .	15
	[2010/12/13 v1.3] . . . . .	15
	[2011/03/29 v1.4] . . . . .	15
	[2011/04/22 v1.5] . . . . .	15
	[2011/04/23 v1.6] . . . . .	15
	[2011/10/22 v1.7] . . . . .	15
	[2011/11/01 v1.8] . . . . .	15

[2016/05/13 v1.9]	16
[2016/05/16 v1.10]	16
[2018/11/22 v1.11]	16
[2019/07/25 v1.12]	16
<b>6 Index</b>	<b>16</b>

# The magicnum package

## Abstract

This packages allows to access magic numbers by a hierarchical name system.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	User interface . . . . .	2
1.2.1	<code>\magicnum</code> . . . . .	2
1.2.2	Properties . . . . .	3
1.3	Data . . . . .	3
1.3.1	Category <code>tex.catcode</code> . . . . .	3
1.3.2	Category <code>etex.grouptype</code> . . . . .	3
1.3.3	Category <code>etex.ifttype</code> . . . . .	4
1.3.4	Category <code>etex.nodetype</code> . . . . .	4
1.3.5	Category <code>etex.interactionmode</code> . . . . .	4
1.3.6	Category <code>luatex.pdfliteral.mode</code> . . . . .	5
<b>2</b>	<b>Implementation</b>	<b>5</b>
2.1	Reload check and package identification . . . . .	5
2.2	Catcodes . . . . .	6
2.3	Check for previous definition . . . . .	7
2.4	Without LuaTeX . . . . .	7
2.5	With LuaTeX . . . . .	8
2.6	Data . . . . .	9
2.6.1	Plain data . . . . .	9
2.6.2	Data for TeX . . . . .	10
2.6.3	Lua module . . . . .	12
<b>3</b>	<b>Test</b>	<b>16</b>
3.1	Catcode checks for loading . . . . .	16
3.2	Test data . . . . .	18
3.3	Small test for iniTeX . . . . .	19
<b>4</b>	<b>Installation</b>	<b>19</b>
4.1	Download . . . . .	19
4.2	Bundle installation . . . . .	19
4.3	Package installation . . . . .	20
4.4	Refresh file name databases . . . . .	20
4.5	Some details for the interested . . . . .	20
<b>5</b>	<b>History</b>	<b>21</b>
	[2007/12/12 v1.0] . . . . .	21
	[2009/04/10 v1.1] . . . . .	21
	[2010/03/09 v1.2] . . . . .	21
	[2011/03/24 v1.3] . . . . .	21

[2011/04/10 v1.4]	21
[2016/05/16 v1.5]	21
[2019/07/25 v1.6]	21
<b>6 Index</b>	<b>21</b>

# The mleftright package

## Abstract

TeX sets subformulas by `\left` and `\right` as inner formulas with additional surrounding spaces in some situations. This package provides `\mleft` and `\mright` that call `\left` and `\right`, but the delimiters will act as normal `\mathopen` and `\mathclose` delimiters without the additional space of an inner formula.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Use . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
<b>4</b>	<b>Installation</b>	<b>9</b>
4.1	Download . . . . .	9
4.2	Bundle installation . . . . .	9
4.3	Package installation . . . . .	9
4.4	Refresh file name databases . . . . .	10
4.5	Some details for the interested . . . . .	10
<b>5</b>	<b>Acknowledgement</b>	<b>10</b>
<b>6</b>	<b>References</b>	<b>11</b>
<b>7</b>	<b>History</b>	<b>11</b>
	[2010/09/25 v1.0] . . . . .	11
	[2016/05/16 v1.1] . . . . .	11
<b>8</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 enable, disable	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>Test</b>	<b>10</b>
3.1	Catcode checks for loading	10
<b>4</b>	<b>Installation</b>	<b>12</b>
4.1	Download	12
4.2	Bundle installation	12
4.3	Package installation	13
4.4	Refresh file name databases	13
4.5	Some details for the interested	13
<b>5</b>	<b>Acknowledgement</b>	<b>13</b>
<b>6</b>	<b>History</b>	<b>14</b>
	[2009/11/06 v1.0]	14
	[2009/11/06 v1.1]	14
	[2009/12/02 v1.2]	14
	[2009/12/03 v1.3]	14
	[2009/12/04 v1.4]	14
	[2016/05/16 v1.5]	14
<b>7</b>	<b>Index</b>	<b>14</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 AtBeginDvi 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 . . . . .	9
<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] . . . . .	10
[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 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.

<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> . . . . .	6
2.3.2	Check PDF mode . . . . .	6
2.3.3	Check version of pdfTeX . . . . .	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>Test</b>	<b>9</b>
3.1	Catcode checks for loading . . . . .	9
3.2	Very simple test . . . . .	11
3.3	Detection of package <code>luacolor</code> . . . . .	12
<b>4</b>	<b>Installation</b>	<b>12</b>
4.1	Download . . . . .	12
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	13
4.4	Refresh file name databases . . . . .	13
4.5	Some details for the interested . . . . .	13
<b>5</b>	<b>History</b>	<b>14</b>
	[2007/09/09 v1.0] . . . . .	14
	[2007/12/09 v1.1] . . . . .	14
	[2007/12/12 v1.2] . . . . .	14
	[2016/05/16 v1.3] . . . . .	14
	[2016/05/17 v1.4] . . . . .	14
	[2018/11/01 v1.5] . . . . .	14
<b>6</b>	<b>Index</b>	<b>14</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 <code>\pdfcolfoot@switch</code> . . . . .	2
2.2	Macro <code>\pdfcolfoot@current</code> . . . . .	2
<b>3</b>	<b>Implementation</b>	<b>3</b>
3.1	Identification . . . . .	3
3.2	Load package <code>pdfcol</code> . . . . .	3
3.3	Color stack for footnotes . . . . .	3
3.4	Patch <code>\@makefntext</code> . . . . .	3
3.5	Patch <code>\@makecol</code> . . . . .	4
<b>4</b>	<b>Test</b>	<b>6</b>
<b>5</b>	<b>Installation</b>	<b>6</b>
5.1	Download . . . . .	6
5.2	Bundle installation . . . . .	7
5.3	Package installation . . . . .	7
5.4	Refresh file name databases . . . . .	7
5.5	Some details for the interested . . . . .	7
<b>6</b>	<b>References</b>	<b>8</b>
<b>7</b>	<b>History</b>	<b>8</b>
	[2007/01/08 v1.0] . . . . .	8
	[2007/09/09 v1.1] . . . . .	8
	[2012/01/02 v1.2] . . . . .	8
	[2016/05/16 v1.3] . . . . .	8
<b>8</b>	<b>Index</b>	<b>8</b>

# The pdfcolmk package

## Abstract

This package tries a solution for the missing color stack of pdfTeX.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Background . . . . .	2
1.3	Limitations . . . . .	2
1.4	Recommendation . . . . .	2
1.5	Usage . . . . .	2
1.6	Compatibility . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	\marginpar fix . . . . .	4
2.1.1	latex/base/latex.ltx . . . . .	4
2.1.2	memoir.cls . . . . .	5
2.1.3	poemscol/marn.sty, poemscol/newmarn.sty . . . . .	7
2.1.4	refman/refart.cls, refnam/refrep.cls . . . . .	8
2.2	Color fix . . . . .	9
<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 . . . . .	12
3.5	Some details for the interested . . . . .	12
<b>4</b>	<b>History</b>	<b>12</b>
	[2000/08/27 v0.1] . . . . .	12
	[2000/09/02 v0.2] . . . . .	12
	[2000/09/02 v0.3] . . . . .	13
	[2000/09/06 v0.4] . . . . .	13
	[2000/09/06 v0.5] . . . . .	13
	[2005/06/15 v0.6] . . . . .	13
	[2005/07/09 v0.7] . . . . .	13
	[2006/02/20 v0.8] . . . . .	13
	[2007/01/01 v1.0] . . . . .	13
	[2007/04/11 v1.1] . . . . .	13
	[2008/08/11 v1.2] . . . . .	13
	[2016/05/16 v1.3] . . . . .	13
<b>5</b>	<b>Index</b>	<b>13</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>Test</b>	<b>11</b>
<b>4</b>	<b>Installation</b>	<b>12</b>
4.1	Download	12
4.2	Bundle installation	13
4.3	Package installation	13
4.4	Refresh file name databases	13
4.5	Some details for the interested	13
<b>5</b>	<b>References</b>	<b>14</b>
<b>6</b>	<b>History</b>	<b>14</b>
	[2007/09/09 v1.0]	14
	[2007/12/12 v1.1]	14
	[2008/08/11 v1.2]	14
	[2010/01/11 v1.3]	14
	[2016/05/16 v1.4]	14
<b>7</b>	<b>Index</b>	<b>15</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</b>	<b>Usage</b>	<b>2</b>
1.1	Option rulebetweencolor . . . . .	2
1.2	Future . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Load packages . . . . .	2
2.2.1	Package parcolumns . . . . .	2
2.2.2	Package pdfcol . . . . .	3
2.2.3	Package infwarerr . . . . .	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</b>	<b>Test</b>	<b>6</b>
<b>4</b>	<b>Installation</b>	<b>7</b>
4.1	Download . . . . .	7
4.2	Bundle installation . . . . .	7
4.3	Package installation . . . . .	7
4.4	Refresh file name databases . . . . .	8
4.5	Some details for the interested . . . . .	8
<b>5</b>	<b>References</b>	<b>8</b>
<b>6</b>	<b>History</b>	<b>9</b>
	[2007/07/26 v1.0] . . . . .	9
	[2007/09/09 v1.1] . . . . .	9
	[2008/08/11 v1.2] . . . . .	9
	[2010/01/11 v1.3] . . . . .	9
	[2016/05/16 v1.4] . . . . .	9
<b>7</b>	<b>Index</b>	<b>9</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
1.2	Usage . . . . .	2
1.2.1	Special characters . . . . .	3
1.2.2	\nopdfcrypt . . . . .	3
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>
2.1	Help macros for plain T <sub>E</sub> X . . . . .	4
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
3.2	Bundle installation . . . . .	13
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 pdfescape package

## Abstract

This package implements pdfTeX's escape features (`\pdfescapehex`, `\pdfunescapehex`, `\pdfescapeiname`, `\pdfescapestring`) using TeX or  $\epsilon$ -TeX.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Additional unescape macros . . . . .	3
1.2	Sanitizing macro . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	Load package . . . . .	5
2.4	Sanitizing . . . . .	6
2.4.1	Space characters . . . . .	6
2.4.2	Space normalization . . . . .	6
2.5	<code>\EdefUnescapeName</code> . . . . .	7
2.6	<code>\EdefUnescapeString</code> . . . . .	9
2.7	User macros (pdfTeX analogues) . . . . .	12
2.8	Help macros . . . . .	13
2.8.1	Characters . . . . .	13
2.8.2	Switch for $\epsilon$ -TeX . . . . .	13
2.9	Conversions . . . . .	14
2.9.1	Conversion to hex string . . . . .	14
2.9.2	Character code to octal number . . . . .	15
2.9.3	Unpack hex string . . . . .	15
2.9.4	Conversion to PDF name . . . . .	16
2.9.5	Conversion to PDF string . . . . .	17
<b>3</b>	<b>Test</b>	<b>18</b>
3.1	Catcode checks for loading . . . . .	18
3.2	Macro tests . . . . .	20
3.3	Test with <code>\pdfescape...</code> commands . . . . .	20
3.4	Test without <code>\pdfescape...</code> , with $\epsilon$ -TeX . . . . .	20
3.5	Test without <code>\pdfescape...</code> and $\epsilon$ -TeX . . . . .	20
3.6	Test with LuaTeX . . . . .	20
3.7	Check/ensure test preconditions . . . . .	21
3.7.1	Check <code>\pdfescape...</code> . . . . .	21
3.7.2	Check $\epsilon$ -TeX . . . . .	21
3.7.3	Check LuaTeX . . . . .	21
3.8	Common part . . . . .	21
3.8.1	Test for iniTeX . . . . .	28

<b>4</b>	<b>Installation</b>	<b>30</b>
4.1	Download . . . . .	30
4.2	Bundle installation . . . . .	30
4.3	Package installation . . . . .	31
4.4	Refresh file name databases . . . . .	31
4.5	Some details for the interested . . . . .	31
<b>5</b>	<b>History</b>	<b>32</b>
[2007/02/21 v1.0]	. . . . .	32
[2007/02/25 v1.1]	. . . . .	32
[2007/03/20 v1.2]	. . . . .	32
[2007/04/11 v1.3]	. . . . .	32
[2007/04/21 v1.4]	. . . . .	32
[2007/08/27 v1.5]	. . . . .	32
[2007/09/09 v1.6]	. . . . .	32
[2007/10/27 v1.7]	. . . . .	32
[2007/11/11 v1.8]	. . . . .	33
[2010/03/01 v1.9]	. . . . .	33
[2010/11/12 v1.10]	. . . . .	33
[2011/01/30 v1.11]	. . . . .	33
[2011/04/04 v1.12]	. . . . .	33
[2011/11/25 v1.13]	. . . . .	33
[2016/05/16 v1.14]	. . . . .	33
<b>6</b>	<b>Index</b>	<b>33</b>



# The pdfscape package

## Abstract

Package pdfscape adds PDF support to the environment landscape of package lscape by setting the PDF page attribute /Rotate.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Supported drivers . . . . .	2
1.2	Caveat . . . . .	2
1.3	Requirements . . . . .	2
1.4	Usage . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Package identification . . . . .	2
2.2	Driver options . . . . .	3
2.3	Autodetection of driver . . . . .	3
2.3.1	Driver pdftex . . . . .	3
2.3.2	Driver xetex . . . . .	3
2.3.3	Detect driver based on \Gin@driver . . . . .	4
2.3.4	Driver dvips . . . . .	4
2.4	Driver implementation . . . . .	5
2.4.1	pdfTeX . . . . .	5
2.4.2	PostScript driver . . . . .	6
2.4.3	Driver dvipdfm . . . . .	6
2.5	Driver independent stuff . . . . .	6
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Driver detection tests . . . . .	7
3.2	Test for \PLS@CheckAngle . . . . .	8
3.3	Test for rotate . . . . .	9
<b>4</b>	<b>Installation</b>	<b>11</b>
4.1	Download . . . . .	11
4.2	Bundle installation . . . . .	11
4.3	Package installation . . . . .	11
4.4	Refresh file name databases . . . . .	12
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>History</b>	<b>12</b>
	[2001/01/15 v0.1] . . . . .	12
	[2001/02/04 v0.2] . . . . .	12
	[2004/05/11 v0.3] . . . . .	12
	[2004/05/12 v0.4] . . . . .	12
	[2006/02/20 v0.5] . . . . .	13
	[2006/04/24 v0.6] . . . . .	13
	[2007/04/11 v0.7] . . . . .	13
	[2007/04/17 v0.8] . . . . .	13

[2007/10/21 v0.9]	13
[2008/08/11 v0.10]	13
[2016/05/14 v0.11]	13
<b>6 Index</b>	<b>13</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>Test</b>	<b>19</b>
3.1	Catcode checks for loading . . . . .	19
3.2	Simple test file . . . . .	21
3.3	Further tests . . . . .	21
3.4	Compatibility with plain T <sub>E</sub> X . . . . .	23
<b>4</b>	<b>Installation</b>	<b>24</b>
4.1	Download . . . . .	24
4.2	Bundle installation . . . . .	24
4.3	Package installation . . . . .	24
4.4	Refresh file name databases . . . . .	25
4.5	Some details for the interested . . . . .	25
<b>5</b>	<b>Acknowledgement</b>	<b>25</b>
<b>6</b>	<b>References</b>	<b>25</b>
<b>7</b>	<b>History</b>	<b>26</b>
	[2010/01/26 v1.0] . . . . .	26
	[2010/01/27 v1.1] . . . . .	26
	[2010/01/28 v1.2] . . . . .	26
	[2016/05/14 v1.3] . . . . .	26
	[2016/05/17 v1.4] . . . . .	26
	[2018/11/01 v1.5] . . . . .	26
<b>8</b>	<b>Index</b>	<b>26</b>

# The pdftexcmds package

## Abstract

LuaTeX provides most of the commands of pdfTeX 1.40. However a number of utility functions are removed. This package tries to fill the gap and implements some of the missing primitive using Lua.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	General principles . . . . .	3
1.2	Macros . . . . .	4
1.2.1	Strings . . . . .	4
1.2.2	Files . . . . .	4
1.2.3	Timekeeping . . . . .	4
1.2.4	Miscellaneous . . . . .	5
1.2.5	Additional macro: <code>\pdf@isprimitive</code> . . . . .	6
1.2.6	Experimental . . . . .	7
<b>2</b>	<b>Implementation</b>	<b>7</b>
2.1	Reload check and package identification . . . . .	7
2.2	Catcodes . . . . .	8
2.3	Load packages . . . . .	9
2.4	Without LuaTeX . . . . .	10
2.5	<code>\pdf@primitive</code> , <code>\pdf@ifprimitive</code> . . . . .	11
2.5.1	Using LuaTeX's <code>tex.enableprimitives</code> . . . . .	12
2.5.2	Trying various names to find the primitives . . . . .	12
2.5.3	Result . . . . .	13
2.6	<code>X<sub>Y</sub>TeX</code> . . . . .	13
2.7	<code>\pdf@isprimitive</code> . . . . .	14
2.8	<code>\pdf@draftmode</code> . . . . .	15
2.9	Load Lua module . . . . .	16
2.10	Lua functions . . . . .	17
2.10.1	Helper macros . . . . .	17
2.10.2	Strings . . . . .	18
2.10.3	Files . . . . .	19
2.10.4	Timekeeping . . . . .	20
2.10.5	Shell escape . . . . .	21
2.11	Lua module . . . . .	22
2.11.1	Strings . . . . .	22
2.11.2	Files . . . . .	25
2.11.3	Timekeeping . . . . .	27
2.11.4	Miscellaneous . . . . .	27
<b>3</b>	<b>Test</b>	<b>29</b>
3.1	Catcode checks for loading . . . . .	29
3.2	Test for <code>\pdf@isprimitive</code> . . . . .	30
3.3	Test for <code>\pdf@shellescape</code> . . . . .	31
3.4	Test for escape functions . . . . .	32

<b>4</b>	<b>Installation</b>	<b>35</b>
4.1	Download . . . . .	35
4.2	Bundle installation . . . . .	35
4.3	Package installation . . . . .	35
4.4	Refresh file name databases . . . . .	36
4.5	Some details for the interested . . . . .	36
<b>5</b>	<b>History</b>	<b>36</b>
[2007/11/11 v0.1]	. . . . .	36
[2007/11/12 v0.2]	. . . . .	36
[2007/12/12 v0.3]	. . . . .	37
[2009/04/10 v0.4]	. . . . .	37
[2009/09/22 v0.5]	. . . . .	37
[2009/09/23 v0.6]	. . . . .	37
[2009/12/12 v0.7]	. . . . .	37
[2010/03/01 v0.8]	. . . . .	37
[2010/04/01 v0.9]	. . . . .	37
[2010/11/04 v0.10]	. . . . .	37
[2010/11/11 v0.11]	. . . . .	37
[2011/01/30 v0.12]	. . . . .	37
[2011/03/04 v0.13]	. . . . .	37
[2011/04/10 v0.14]	. . . . .	37
[2011/04/16 v0.15]	. . . . .	38
[2011/04/22 v0.16]	. . . . .	38
[2011/06/29 v0.17]	. . . . .	38
[2011/07/01 v0.18]	. . . . .	38
[2011/07/28 v0.19]	. . . . .	38
[2011/11/29 v0.20]	. . . . .	38
[2016/05/10 v0.21]	. . . . .	38
[2016/05/21 v0.22]	. . . . .	38
[2016/10/02 v0.23]	. . . . .	38
[2017/01/29 v0.24]	. . . . .	38
[2017/03/19 v0.25]	. . . . .	38
[2018/01/21 v0.26]	. . . . .	38
[2018/01/30 v0.27]	. . . . .	38
[2018/09/07 v0.28]	. . . . .	39
[2018/09/10 v0.29]	. . . . .	39
[2019/07/25 v0.30]	. . . . .	39
<b>6</b>	<b>Index</b>	<b>39</b>

# The picture package

## Abstract

There are macro and environment arguments that expect numbers that will internally be multiplied with `\unitlength`. This package extends the syntax of these arguments that `dimens` with calculation support can be added for these arguments.

<b>1</b>	<b>User interface</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Options . . . . .	2
1.3	Example . . . . .	2
1.4	Supported packages . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Identification . . . . .	3
2.2	Options . . . . .	3
2.3	Calculation method . . . . .	3
2.3.1	Method <code>calc</code> . . . . .	3
2.3.2	Method <code>etex</code> . . . . .	4
2.3.3	Method <code>plain</code> . . . . .	4
2.3.4	Help macros . . . . .	5
2.4	Redefinitions . . . . .	5
2.4.1	<code>L<sup>A</sup>T<sub>E</sub>X</code> base macros . . . . .	6
2.4.2	Package <code>pspicture</code> . . . . .	6
2.5	Check package loading order . . . . .	7
<b>3</b>	<b>Installation</b>	<b>7</b>
3.1	Download . . . . .	7
3.2	Bundle installation . . . . .	7
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>
	[2006/08/26 v1.0] . . . . .	9
	[2007/04/11 v1.1] . . . . .	9
	[2008/11/26 v1.2] . . . . .	9
	[2009/10/11 v1.3] . . . . .	9
	[2016/05/16 v1.4] . . . . .	9
<b>5</b>	<b>Index</b>	<b>9</b>

# The pmboxdraw package

## Abstract

Package pmboxdraw declares box drawings characters of old code pages, e.g. cp437. It uses rules instead of using a font.

<b>1</b>	<b>User interface</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Setup . . . . .	2
1.3	Symbol list . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>9</b>
2.1	Initial stuff . . . . .	9
2.2	Resources . . . . .	11
2.3	Dummy font encoding . . . . .	12
2.4	Setup . . . . .	12
2.4.1	Options . . . . .	12
2.4.2	Setup commands of version 1.0 . . . . .	14
2.5	Utils . . . . .	15
2.6	Block elements . . . . .	17
2.6.1	U+2580 . . . . .	17
2.6.2	U+2581 . . . . .	17
2.6.3	U+2582 . . . . .	17
2.6.4	U+2583 . . . . .	18
2.6.5	U+2584 . . . . .	18
2.6.6	U+2585 . . . . .	18
2.6.7	U+2586 . . . . .	18
2.6.8	U+2587 . . . . .	18
2.6.9	U+2588 . . . . .	19
2.6.10	U+2589 . . . . .	19
2.6.11	U+258A . . . . .	19
2.6.12	U+258B . . . . .	19
2.6.13	U+258C . . . . .	19
2.6.14	U+258D . . . . .	19
2.6.15	U+258E . . . . .	20
2.6.16	U+258F . . . . .	20
2.6.17	U+2590 . . . . .	20
2.6.18	U+2594 . . . . .	20
2.6.19	U+2595 . . . . .	20
2.7	Shade characters . . . . .	21
2.7.1	U+2591 . . . . .	21
2.7.2	U+2592 . . . . .	21
2.7.3	U+2593 . . . . .	21
2.7.4	Color warning . . . . .	22
2.8	Terminal graphics characters . . . . .	22
2.8.1	U+2596 . . . . .	22
2.8.2	U+2597 . . . . .	22

2.8.3	U+2598	22
2.8.4	U+2599	23
2.8.5	U+259A	23
2.8.6	U+259B	23
2.8.7	U+259C	23
2.8.8	U+259D	23
2.8.9	U+259E	24
2.8.10	U+259F	24
2.9	Box drawing	24
2.9.1	U+2500	24
2.9.2	U+2501	25
2.9.3	U+2502	25
2.9.4	U+2503	25
2.9.5	U+250C	25
2.9.6	U+250D	26
2.9.7	U+250E	27
2.9.8	U+250F	27
2.9.9	U+2510	28
2.9.10	U+2511	28
2.9.11	U+2512	29
2.9.12	U+2513	29
2.9.13	U+2514	29
2.9.14	U+2515	30
2.9.15	U+2516	31
2.9.16	U+2517	31
2.9.17	U+2518	32
2.9.18	U+2519	32
2.9.19	U+251A	33
2.9.20	U+251B	33
2.9.21	U+251C	33
2.9.22	U+251D	34
2.9.23	U+251E	35
2.9.24	U+251F	35
2.9.25	U+2520	36
2.9.26	U+2521	37
2.9.27	U+2522	37
2.9.28	U+2523	38
2.9.29	U+2524	38
2.9.30	U+2525	39
2.9.31	U+2526	39
2.9.32	U+2527	40
2.9.33	U+2528	41
2.9.34	U+2529	41
2.9.35	U+252A	42
2.9.36	U+252B	42
2.9.37	U+252C	43



2.9.38	U+252D	43
2.9.39	U+252E	44
2.9.40	U+252F	45
2.9.41	U+2530	45
2.9.42	U+2531	46
2.9.43	U+2532	47
2.9.44	U+2533	47
2.9.45	U+2534	48
2.9.46	U+2535	48
2.9.47	U+2536	49
2.9.48	U+2537	50
2.9.49	U+2538	50
2.9.50	U+2539	51
2.9.51	U+253A	52
2.9.52	U+253B	52
2.9.53	U+253C	53
2.9.54	U+253D	53
2.9.55	U+253E	54
2.9.56	U+253F	55
2.9.57	U+2540	55
2.9.58	U+2541	56
2.9.59	U+2542	56
2.9.60	U+2543	57
2.9.61	U+2544	58
2.9.62	U+2545	59
2.9.63	U+2546	59
2.9.64	U+2547	60
2.9.65	U+2548	61
2.9.66	U+2549	62
2.9.67	U+254A	62
2.9.68	U+254B	63
2.10	Box drawing, double lines	63
2.10.1	U+2550	64
2.10.2	U+2551	64
2.10.3	U+2552	65
2.10.4	U+2553	65
2.10.5	U+2554	66
2.10.6	U+2555	66
2.10.7	U+2556	67
2.10.8	U+2557	67
2.10.9	U+2558	68
2.10.10	U+2559	69
2.10.11	U+255A	69
2.10.12	U+255B	70
2.10.13	U+255C	71
2.10.14	U+255D	71

2.10.15 U+255E . . . . .	72
2.10.16 U+255F . . . . .	73
2.10.17 U+2560 . . . . .	73
2.10.18 U+2561 . . . . .	74
2.10.19 U+2562 . . . . .	74
2.10.20 U+2563 . . . . .	75
2.10.21 U+2564 . . . . .	76
2.10.22 U+2565 . . . . .	76
2.10.23 U+2566 . . . . .	77
2.10.24 U+2567 . . . . .	77
2.10.25 U+2568 . . . . .	78
2.10.26 U+2569 . . . . .	78
2.10.27 U+256A . . . . .	79
2.10.28 U+256B . . . . .	80
2.10.29 U+256C . . . . .	80
2.10.30 U+2574 . . . . .	81
2.10.31 U+2575 . . . . .	81
2.10.32 U+2576 . . . . .	82
2.10.33 U+2577 . . . . .	82
2.10.34 U+2578 . . . . .	82
2.10.35 U+2579 . . . . .	83
2.10.36 U+257A . . . . .	83
2.10.37 U+257B . . . . .	83
2.10.38 U+257C . . . . .	83
2.10.39 U+257D . . . . .	84
2.10.40 U+257E . . . . .	84
2.10.41 U+257F . . . . .	85
2.11 Box drawing, light single lines . . . . .	85
2.12 Unicode support file . . . . .	85
 <b>3 Test</b>	 <b>88</b>
3.1 Catcode checks for loading . . . . .	88
 <b>4 Installation</b>	 <b>90</b>
4.1 Download . . . . .	90
4.2 Bundle installation . . . . .	90
4.3 Package installation . . . . .	90
4.4 Refresh file name databases . . . . .	91
4.5 Some details for the interested . . . . .	91
 <b>5 References</b>	 <b>91</b>
 <b>6 History</b>	 <b>92</b>
[2006/05/03 v1.0] . . . . .	92
[2011/03/24 v1.1] . . . . .	92
[2016/05/16 v1.2] . . . . .	92
[2019/02/28 v1.3] . . . . .	92



# 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>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
3.2	Test without <code>L<sup>A</sup>T<sub>E</sub>X</code> and <code>\protected</code> . . . . .	8
<b>4</b>	<b>Installation</b>	<b>11</b>
4.1	Download . . . . .	11
4.2	Bundle installation . . . . .	12
4.3	Package installation . . . . .	12
4.4	Refresh file name databases . . . . .	12
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>History</b>	<b>13</b>
	[2011/01/31 v1.0] . . . . .	13
	[2016/05/16 v1.1] . . . . .	13
<b>6</b>	<b>Index</b>	<b>13</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</b>	<b>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</b>	<b>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</b>	<b>Test</b>	<b>11</b>
3.1	Catcode checks for loading . . . . .	11
3.2	Macro tests . . . . .	13
3.3	Test with package <code>titleref</code> . . . . .	16
<b>4</b>	<b>Installation</b>	<b>18</b>
4.1	Download . . . . .	18
4.2	Bundle installation . . . . .	18
4.3	Package installation . . . . .	19
4.4	Refresh file name databases . . . . .	19
4.5	Some details for the interested . . . . .	19
<b>5</b>	<b>History</b>	<b>20</b>
	[1998/04/08 v1.0] . . . . .	20
	[2000/09/07 v2.0] . . . . .	20
	[2006/02/20 v3.0] . . . . .	20
	[2008/08/11 v3.1] . . . . .	20
	[2010/12/01 v3.2] . . . . .	20
	[2011/06/22 v3.3] . . . . .	20

[2011/10/16 v3.4] . . . . .	20
[2016/05/16 v3.5] . . . . .	21
<b>6 Index</b>	<b>21</b>

# The rerunfilecheck package

## Abstract

The package provides additional rerun warnings if some auxiliary files have changed. It is based on MD5 checksum, provided by pdfTeX.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Options . . . . .	2
1.2	Interface for class/package authors . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Options . . . . .	4
2.2	Check for checksum feature . . . . .	5
2.3	Standard .aux files . . . . .	5
2.4	Rerun check . . . . .	7
<b>3</b>	<b>Test</b>	<b>9</b>
3.1	Catcode checks for loading . . . . .	9
<b>4</b>	<b>Installation</b>	<b>11</b>
4.1	Download . . . . .	11
4.2	Bundle installation . . . . .	11
4.3	Package installation . . . . .	12
4.4	Refresh file name databases . . . . .	12
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>History</b>	<b>13</b>
	[2009/12/10 v1.0] . . . . .	13
	[2009/12/12 v1.1] . . . . .	13
	[2009/12/18 v1.2] . . . . .	13
	[2010/01/25 v1.3] . . . . .	13
	[2010/02/22 v1.4] . . . . .	13
	[2010/03/15 v1.5] . . . . .	13
	[2010/03/16 v1.6] . . . . .	13
	[2011/04/15 v1.7] . . . . .	13
	[2016/05/16 v1.8] . . . . .	13
<b>6</b>	<b>Index</b>	<b>13</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>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Download . . . . .	10
4.2	Bundle installation . . . . .	10
4.3	Package installation . . . . .	11
4.4	Refresh file name databases . . . . .	11
4.5	Some details for the interested . . . . .	11
<b>5</b>	<b>Acknowledgement</b>	<b>11</b>
<b>6</b>	<b>History</b>	<b>12</b>
	[2009/12/04 v1.0] . . . . .	12
	[2009/12/05 v1.1] . . . . .	12
	[2010/03/01 v1.2] . . . . .	12
	[2016/05/16 v1.3] . . . . .	12
<b>7</b>	<b>Index</b>	<b>12</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 . . . . .	8
2.8	\RotCh@rot without big char support . . . . .	9
<b>3</b>	<b>Test</b>	<b>9</b>
3.1	Catcode checks for loading . . . . .	9
3.2	Macro tests . . . . .	11
3.2.1	Preamble . . . . .	11
3.2.2	ROT13 . . . . .	13
3.2.3	ROT5 . . . . .	14
3.2.4	ROT18 . . . . .	14
3.2.5	ROT47 . . . . .	14
3.2.6	Big chars . . . . .	15
<b>4</b>	<b>Installation</b>	<b>15</b>
4.1	Download . . . . .	15
4.2	Bundle installation . . . . .	16
4.3	Package installation . . . . .	16
4.4	Refresh file name databases . . . . .	16
4.5	Some details for the interested . . . . .	16
<b>5</b>	<b>References</b>	<b>17</b>
<b>6</b>	<b>History</b>	<b>18</b>
	[2010/11/12 v1.0] . . . . .	18
	[2016/05/16 v1.1] . . . . .	18



## 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 selinput package

## Abstract

This package selects the input encoding by specifying between input characters and their glyph names.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
1.2	User interface . . . . .	2
1.3	Options . . . . .	3
1.4	Encodings . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
<b>3</b>	<b>Test</b>	<b>8</b>
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Download . . . . .	10
4.2	Bundle installation . . . . .	10
4.3	Package installation . . . . .	10
4.4	Refresh file name databases . . . . .	11
4.5	Some details for the interested . . . . .	11
<b>5</b>	<b>References</b>	<b>11</b>
<b>6</b>	<b>History</b>	<b>12</b>
	[2007/06/16 v1.0] . . . . .	12
	[2007/06/20 v1.1] . . . . .	12
	[2007/09/09 v1.2] . . . . .	12
	[2016/05/16 v1.3] . . . . .	12
	[2016/05/17 v1.4] . . . . .	12
<b>7</b>	<b>Index</b>	<b>12</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 . . . . .	9
2.5	Option <code>hyperref</code> . . . . .	9
<b>3</b>	<b>Test</b>	<b>10</b>
3.1	Catcode checks for loading . . . . .	10
3.2	Test with package <code>url</code> . . . . .	12
<b>4</b>	<b>Installation</b>	<b>12</b>
4.1	Download . . . . .	12
4.2	Bundle installation . . . . .	13
4.3	Package installation . . . . .	13
4.4	Refresh file name databases . . . . .	13
4.5	Some details for the interested . . . . .	13
<b>5</b>	<b>References</b>	<b>14</b>
<b>6</b>	<b>History</b>	<b>14</b>
	[2005/10/05 v1.0] . . . . .	14
	[2005/10/07 v1.1] . . . . .	14
	[2005/10/18 v1.2] . . . . .	14
	[2006/02/12 v1.3] . . . . .	14
	[2006/08/26 v1.4] . . . . .	14
	[2007/04/26 v1.5] . . . . .	15
	[2007/05/17 v1.6] . . . . .	15
	[2007/09/09 v1.7] . . . . .	15
	[2016/05/16 v1.8] . . . . .	15
<b>7</b>	<b>Index</b>	<b>15</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>9</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	$\varepsilon\text{-TeX}$ . . . . .	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 . . . . .	13
<b>3</b>	<b>Test</b>	<b>15</b>
3.1	Catcode checks for loading . . . . .	15
3.2	$\text{\LaTeX}$ tests . . . . .	17
3.2.1	Driver definitions . . . . .	18
3.2.2	Test macros . . . . .	20
3.2.3	Testing . . . . .	23
<b>4</b>	<b>Installation</b>	<b>24</b>
4.1	Download . . . . .	24
4.2	Bundle installation . . . . .	24
4.3	Package installation . . . . .	25
4.4	Refresh file name databases . . . . .	25
4.5	Some details for the interested . . . . .	25
<b>5</b>	<b>References</b>	<b>26</b>
<b>6</b>	<b>History</b>	<b>26</b>
	[2007/09/09 v1.0] . . . . .	26
	[2016/05/16 v1.1] . . . . .	26





# 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 . . . . .	4
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] . . . . .	7
<b>6</b>	<b>Index</b>	<b>7</b>

# The stringenc package

## Abstract

This package provides `\StringEncodingConvert` for converting a string between different encodings. Both  $\text{\LaTeX}$  and plain- $\text{\TeX}$  are supported.

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	User interface . . . . .	2
1.2	Supported encodings . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Reload check and package identification . . . . .	4
2.2	Catcodes . . . . .	5
2.3	Tools . . . . .	6
2.4	Encoding aliases . . . . .	17
2.5	Encoding files . . . . .	19
2.5.1	UTF-32BE, UTF-32LE . . . . .	19
2.5.2	UTF-8 . . . . .	22
2.5.3	UTF-16LE . . . . .	27
2.5.4	PDFDocEncoding . . . . .	28
2.5.5	ISO-8859-1 . . . . .	30
2.5.6	CP1252 . . . . .	31
2.5.7	US-ASCII . . . . .	32
2.5.8	Encoding <code>ascii-print</code> . . . . .	33
2.5.9	Clean7Bit . . . . .	34
2.5.10	Other encodings (8 bit) . . . . .	35
<b>3</b>	<b>Test</b>	<b>80</b>
3.1	Catcode checks for loading . . . . .	80
3.2	Conversion tests . . . . .	81
3.2.1	UTF8/16/32 encodings . . . . .	83
3.2.2	ASCII . . . . .	85
3.2.3	PDFDocEncoding . . . . .	85
3.2.4	ISO-8859-1 . . . . .	86
3.2.5	CP1252 . . . . .	86
3.2.6	KOI8-R . . . . .	86
3.2.7	DEC-MCS . . . . .	87
3.3	Removal of byte order marks . . . . .	87
<b>4</b>	<b>Installation</b>	<b>88</b>
4.1	Download . . . . .	88
4.2	Bundle installation . . . . .	88
4.3	Package installation . . . . .	88
4.4	Refresh file name databases . . . . .	89
4.5	Some details for the interested . . . . .	89

<b>5 History</b>	<b>90</b>
[2007/06/14 v1.0] . . . . .	90
[2007/06/16 v1.1] . . . . .	90
[2007/09/09 v1.2] . . . . .	90
[2007/10/22 v1.3] . . . . .	90
[2007/11/11 v1.4] . . . . .	90
[2007/11/25 v1.5] . . . . .	90
[2008/10/27 v1.6] . . . . .	91
[2009/12/15 v1.7] . . . . .	91
[2010/03/01 v1.8] . . . . .	91
[2011/07/26 v1.9] . . . . .	91
[2011/12/02 v1.10] . . . . .	91
[2016/05/16 v1.11] . . . . .	91
<b>6 Index</b>	<b>91</b>

# The tabularht package

## Abstract

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

<b>1</b>	<b>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</b>	<b>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</b>	<b>Installation</b>	<b>14</b>
3.1	Download . . . . .	14
3.2	Bundle installation . . . . .	14
3.3	Package installation . . . . .	15
3.4	Refresh file name databases . . . . .	15
3.5	Some details for the interested . . . . .	15
<b>4</b>	<b>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</b>	<b>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 . . . . .	5
2.3	Package macros . . . . .	5
<b>3</b>	<b>Test</b>	<b>8</b>
3.1	Catcode checks for loading . . . . .	8
<b>4</b>	<b>Installation</b>	<b>9</b>
4.1	Download . . . . .	9
4.2	Bundle installation . . . . .	10
4.3	Package installation . . . . .	10
4.4	Refresh file name databases . . . . .	10
4.5	Some details for the interested . . . . .	10
<b>5</b>	<b>History</b>	<b>11</b>
	[1996/11/28 v1.0] . . . . .	11
	[1997/09/16 v1.1] . . . . .	11
	[1997/10/16 v1.2] . . . . .	11
	[1997/12/09 v1.3] . . . . .	11
	[2004/11/02 v1.4] . . . . .	11
	[2005/09/30 v1.5] . . . . .	11
	[2006/02/12 v1.6] . . . . .	12
	[2006/08/26 v1.7] . . . . .	12
	[2007/04/11 v1.8] . . . . .	12
	[2007/09/09 v1.9] . . . . .	12
	[2008/08/11 v1.10] . . . . .	12
	[2016/05/16 v1.11] . . . . .	12
<b>6</b>	<b>Index</b>	<b>12</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>Test</b>	<b>15</b>
3.1	Catcode checks for loading . . . . .	15
3.2	Macro tests . . . . .	17
3.2.1	Preamble . . . . .	17
3.2.2	Test with active catcodes . . . . .	18
3.2.3	Test cases for <code>\thepdfnumber</code> . . . . .	18
3.2.4	Test cases for <code>\thepdfnumberNormZeroOne</code> . . . . .	19
<b>4</b>	<b>Installation</b>	<b>20</b>
4.1	Download . . . . .	20
4.2	Bundle installation . . . . .	20
4.3	Package installation . . . . .	20
4.4	Refresh file name databases . . . . .	21
4.5	Some details for the interested . . . . .	21
<b>5</b>	<b>History</b>	<b>21</b>
	[2011/11/24 v1.0] . . . . .	21
	[2016/05/16 v1.1] . . . . .	21
<b>6</b>	<b>Index</b>	<b>22</b>



# The transparent package

## Abstract

Since version 1.40 pdfTeX supports several color stacks. This package shows, how a separate color stack can be used for transparency, a property besides color.

<b>1</b>	<b>User interface</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Initial checks . . . . .	2
2.2.1	Check for pdfTeX in PDF mode . . . . .	2
2.2.2	Check pdfTeX or LuaTeX version . . . . .	2
2.3	Compatibility with pgf . . . . .	3
2.4	Transparency . . . . .	3
<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>History</b>	<b>6</b>
[2007/01/08 v1.0]	. . . . .	6
[2016/05/16 v1.1]	. . . . .	6
[2018/09/10 v1.2]	. . . . .	6
[2018/11/18 v1.3]	. . . . .	6
<b>5</b>	<b>Index</b>	<b>7</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>

# 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.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Example . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	4
<b>3</b>	<b>Test</b>	<b>6</b>
3.1	Catcode checks for loading . . . . .	6
3.2	Macro tests . . . . .	8
3.2.1	Test with L <sup>A</sup> T <sub>E</sub> X . . . . .	8
3.2.2	Test with plain-T <sub>E</sub> X . . . . .	9
<b>4</b>	<b>Installation</b>	<b>11</b>
4.1	Download . . . . .	11
4.2	Bundle installation . . . . .	11
4.3	Package installation . . . . .	11
4.4	Refresh file name databases . . . . .	12
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>History</b>	<b>12</b>
	[2009/09/11 v1.0] . . . . .	12
	[2009/12/18 v1.1] . . . . .	12
	[2011/01/30 v1.2] . . . . .	13
	[2016/05/16 v1.3] . . . . .	13
<b>6</b>	<b>Index</b>	<b>13</b>

# The zref package

## Abstract

Package `zref` tries to get rid of the restriction in  $\text{\LaTeX}$ 's reference system that only two properties are supported. The package implements an extensible referencing system, where properties are handled in a more flexible way. It offers an interface for macro programmers for the access to the system and some applications that uses the new reference scheme.

<b>1</b>	<b>Introduction</b>	<b>4</b>
1.1	Standard $\text{\LaTeX}$ behaviour . . . . .	4
1.2	Basic idea . . . . .	5
1.3	Interfaces . . . . .	5
<b>2</b>	<b>Interface for programmers</b>	<b>5</b>
2.1	Entities . . . . .	5
2.2	Property list . . . . .	6
2.3	Property . . . . .	7
2.4	Reference generation . . . . .	7
2.5	Data extraction . . . . .	8
2.6	Setup . . . . .	9
2.7	Declared properties . . . . .	10
2.8	Wrapper for advanced situations . . . . .	11
2.9	Counter for unique names . . . . .	11
<b>3</b>	<b>User interface</b>	<b>11</b>
3.1	Module <code>user</code> . . . . .	11
3.2	Module <code>abspage</code> . . . . .	12
3.3	Module <code>lastpage</code> . . . . .	13
3.3.1	Tests for last page . . . . .	13
3.3.2	Example . . . . .	13
3.4	Module <code>thepage</code> . . . . .	14
3.5	Module <code>nextpage</code> . . . . .	15
3.5.1	Configuration . . . . .	15
3.5.2	Example . . . . .	15
3.6	Module <code>totpages</code> . . . . .	16
3.7	Module <code>pagelayout</code> . . . . .	16
3.8	Module <code>marks</code> . . . . .	17
3.9	Module <code>runs</code> . . . . .	17
3.10	Module <code>perpage</code> . . . . .	17
3.11	Module <code>counter</code> . . . . .	18
3.12	Module <code>titleref</code> . . . . .	18
3.13	Module <code>savepos</code> . . . . .	19
3.14	Module <code>dotfill</code> . . . . .	20
3.15	Module <code>env</code> . . . . .	20
3.16	Module <code>xr</code> . . . . .	20

<b>4</b>	<b>ToDo</b>	<b>21</b>
<b>5</b>	<b>Example</b>	<b>21</b>
<b>6</b>	<b>Implementation</b>	<b>24</b>
6.1	Package <code>zref</code>	24
6.1.1	Identification	24
6.1.2	Load basic module	24
6.1.3	Process options	24
6.2	Module <code>base</code>	25
6.2.1	Prefixes	25
6.2.2	Identification	25
6.2.3	Utilities	25
6.2.4	Check for $\varepsilon$ -TeX	26
6.2.5	Auxiliary file stuff	27
6.2.6	Property lists	27
6.2.7	Properties	31
6.2.8	Reference generation	34
6.2.9	Reference querying and extracting	37
6.2.10	Compatibility with <code>babel</code>	40
6.2.11	Unique counter support	41
6.2.12	Utilities	41
6.2.13	Setup	41
6.3	Module <code>user</code>	43
6.4	Module <code>abspage</code>	44
6.5	Module <code>counter</code>	44
6.6	Module <code>lastpage</code>	45
6.7	Module <code>thepage</code>	46
6.8	Module <code>nextpage</code>	47
6.9	Module <code>totpages</code>	48
6.10	Module <code>pagelayout</code>	49
6.10.1	Support for LuaTeX	49
6.10.2	Define layout properties	50
6.11	Module <code>pageattr</code>	52
6.12	Module <code>marks</code>	56
6.13	Module <code>runs</code>	57
6.14	Module <code>perpage</code>	58
6.15	Module <code>titleref</code>	60
6.15.1	Implementation	60
6.15.2	User interface	62
6.15.3	Patches for section and caption commands	62
6.15.4	Environment <code>description</code>	63
6.15.5	Class <code>memoir</code>	63
6.15.6	Class <code>beamer</code>	64
6.15.7	Package <code>titlesec</code>	64
6.15.8	Package <code>longtable</code>	65

6.15.9	Package listings	65
6.15.10	Theorems	65
6.16	Module <code>xr</code>	66
6.17	Module <code>hyperref</code>	74
6.18	Module <code>savepos</code>	74
6.18.1	Identification	74
6.18.2	Availability	74
6.18.3	Setup	75
6.18.4	User macros	75
6.19	Module <code>abspos</code>	76
6.19.1	Identification	76
6.19.2	Media	79
6.19.3	Paper	80
6.19.4	Origin	81
6.19.5	Header	82
6.19.6	Body	82
6.19.7	Footer	83
6.19.8	Marginal notes	83
6.19.9	Stock paper	84
6.20	Module <code>dotfill</code>	84
6.21	Module <code>env</code>	85
<b>7</b>	<b>Test</b>	<b>86</b>
7.1	<code>\zref@localaddprop</code>	86
7.2	Module <code>base</code>	87
7.3	Module <code>runs</code>	88
7.4	Module <code>titleref</code>	88
<b>8</b>	<b>Installation</b>	<b>89</b>
8.1	Download	89
8.2	Bundle installation	89
8.3	Package installation	90
8.4	Refresh file name databases	90
8.5	Some details for the interested	90
<b>9</b>	<b>References</b>	<b>91</b>
<b>10</b>	<b>History</b>	<b>91</b>
[2006/02/20 v1.0]		91
[2006/05/03 v1.1]		91
[2006/05/25 v1.2]		92
[2006/09/08 v1.3]		92
[2007/01/23 v1.4]		92
[2007/02/18 v1.5]		92
[2007/04/06 v1.6]		92
[2007/04/17 v1.7]		92
[2007/04/22 v1.8]		92

[2007/05/02 v1.9]	92
[2007/05/06 v2.0]	92
[2007/05/28 v2.1]	92
[2008/09/21 v2.2]	93
[2008/10/01 v2.3]	93
[2009/08/07 v2.4]	93
[2009/12/06 v2.5]	93
[2009/12/07 v2.6]	93
[2009/12/08 v2.7]	93
[2010/03/26 v2.8]	93
[2010/03/29 v2.9]	93
[2010/04/08 v2.10]	93
[2010/04/15 v2.11]	94
[2010/04/17 v2.12]	94
[2010/04/19 v2.13]	94
[2010/04/22 v2.14]	94
[2010/04/23 v2.15]	94
[2010/04/28 v2.16]	94
[2010/05/01 v2.17]	95
[2010/05/13 v2.18]	95
[2010/10/22 v2.19]	95
[2011/02/12 v2.20]	95
[2011/03/18 v2.21]	95
[2011/10/05 v2.22]	95
[2011/12/05 v2.23]	95
[2012/04/04 v2.24]	95
[2016/05/16 v2.25]	96
[2016/05/21 v2.26]	96
[2018/11/21 v2.27]	96
<b>11 Index</b>	<b>96</b>