

# CTAN:macros/latex/contrib/oberdiek/

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## 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.

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# The aliascnt package

## Abstract

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

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# 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.

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# The askinclude package

## Abstract

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

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# 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  $\LaTeX$  and plain-TeX are supported.

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# 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`.

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# 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.

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# The auxhook package

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

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# The bigintcalc package

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

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# The bitset package

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# The bmpsize package

## Abstract

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

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# The 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.

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# The catchfile package

## Abstract

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

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# The centernot package

## Abstract

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

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# The chemarr package

## Abstract

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

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# The classlist package

## Abstract

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

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# The colonequals package

## Abstract

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

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# 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”.

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# The embedfile package

## Abstract

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

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	[2007/09/09 v1.2] . . . . .	26
	[2007/10/28 v2.0] . . . . .	26
	[2007/10/29 v2.1] . . . . .	26

[2007/11/11 v2.2]	26
[2007/11/25 v2.3]	27
<b>7 Index</b>	<b>27</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>1</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 . . . . .	4
2.4	Suffix generation . . . . .	6
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
<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 . . . . .	9
<b>5</b>	<b>History</b>	<b>10</b>
	[2000/05/23 v1.0] . . . . .	10
	[2003/04/28 v1.1] . . . . .	10
	[2006/02/20 v1.2] . . . . .	10
	[2007/04/11 v1.3] . . . . .	10
	[2007/04/26 v1.4] . . . . .	10
	[2007/09/09 v1.5] . . . . .	10
	[2007/09/20 v1.6] . . . . .	10
<b>6</b>	<b>Index</b>	<b>11</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 . . . . .	2
1.4	Options . . . . .	3
1.5	Configuration . . . . .	4
1.5.1	Configuration file . . . . .	4
1.5.2	Conversion program . . . . .	4
1.6	Other image formats . . . . .	4
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Preparations . . . . .	4
2.1.1	Relead check and identification . . . . .	4
2.1.2	Catcodes . . . . .	5
2.1.3	Load packages . . . . .	6
2.2	Checks . . . . .	6
2.3	Package loading . . . . .	7
2.4	Options . . . . .	7
2.5	Make and verbose . . . . .	7
2.6	Adding conversion support . . . . .	8
<b>3</b>	<b>Test</b>	<b>10</b>
3.1	Preface for standard catcode check . . . . .	10
3.2	Catcode checks for loading . . . . .	10
<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>
	[2001/01/06 v1.0] . . . . .	13
	[2001/02/04 v1.1] . . . . .	13
	[2006/02/20 v1.2] . . . . .	13
	[2006/08/26 v1.3] . . . . .	13
	[2007/04/26 v1.4] . . . . .	13
	[2007/10/02 v1.5] . . . . .	13
	[2007/11/11 v1.6] . . . . .	13



# 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>1</b>
1.1	<code>\unexpanded</code> . . . . .	1
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	Load package <code>infwarerr</code> . . . . .	3
2.4	<code>\unexpanded</code> . . . . .	4
2.5	<code>\expanded</code> . . . . .	4
<b>3</b>	<b>Test</b>	<b>5</b>
3.1	Catcode checks for loading . . . . .	5
3.2	Macro tests . . . . .	6
<b>4</b>	<b>Installation</b>	<b>7</b>
4.1	Download . . . . .	7
4.2	Bundle installation . . . . .	7
4.3	Package installation . . . . .	8
4.4	Refresh file name databases . . . . .	8
4.5	Some details for the interested . . . . .	8
<b>5</b>	<b>History</b>	<b>9</b>
	[2007/05/06 v1.0] . . . . .	9
	[2007/09/09 v1.1] . . . . .	9
	[2007/12/12 v1.2] . . . . .	9
<b>6</b>	<b>Index</b>	<b>9</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>2</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>
[2007/02/18 v0.1]	. . . . .	7
[2007/03/07 v0.2]	. . . . .	7
[2007/03/31 v0.3]	. . . . .	7
[2007/09/30 v0.4]	. . . . .	7
<b>5</b>	<b>Index</b>	<b>7</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	plain- <code>T<sub>E</sub>X</code> . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Relead check and identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	plain- <code>T<sub>E</sub>X</code> . . . . .	4
2.4	Add . . . . .	4
2.5	Check . . . . .	5
2.6	Remove . . . . .	6
2.7	Print . . . . .	6
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
3.2	Macro tests . . . . .	8
3.2.1	Preamble . . . . .	8
3.2.2	Detection of unwanted space . . . . .	8
3.2.3	Generic test macros . . . . .	8
3.2.4	Test for <code>\AppendGraphicsExtensions</code> . . . . .	9
3.2.5	Test for <code>\PrependGraphicsExtensions</code> . . . . .	9
3.2.6	Test for <code>\RemoveGraphicsExtensions</code> . . . . .	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 . . . . .	11
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>References</b>	<b>12</b>
<b>6</b>	<b>History</b>	<b>12</b>
	[2007/09/30 v1.0] . . . . .	12
<b>7</b>	<b>Index</b>	<b>12</b>

# The grffile package

## Abstract

The package extends the file name processing of package `graphics` to support a larger range of file names. For example, the file name may contain several dots. Or in case of pdfTeX in PDF mode the file name may contain spaces.

<b>1</b>	<b>Usage</b>	<b>2</b>
1.1	Option <code>multidot</code>	2
1.2	Option <code>babel</code>	2
1.3	Option <code>extendedchars</code>	2
1.4	Option <code>encoding</code>	2
1.4.1	Option <code>inputencoding</code>	3
1.4.2	Option <code>filenameencoding</code>	3
1.4.3	Example	3
1.5	Option <code>space</code>	3
1.6	General use	4
1.7	Default settings	4
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Identification	4
2.2	Catcode stuff	4
2.3	Options	4
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Download	8
3.2	Bundle installation	8
3.3	Package installation	9
3.4	Refresh file name databases	9
3.5	Some details for the interested	9
<b>4</b>	<b>References</b>	<b>10</b>
<b>5</b>	<b>History</b>	<b>10</b>
	[2004/07/18 v0.5]	10
	[2006/08/15 v1.0]	10
	[2006/08/17 v1.1]	10
	[2006/11/30 v1.2]	10
	[2007/04/11 v1.3]	10
	[2007/06/13 v1.4]	10
	[2007/08/16 v1.5]	10
	[2007/11/11 v1.6]	10
	[2007/11/24 v1.7]	10
<b>6</b>	<b>Index</b>	<b>10</b>

# The holtxdoc package

## Abstract

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

<b>1</b>	<b>No usage</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Help macros . . . . .	2
2.2	History . . . . .	2
2.3	Formatting macros . . . . .	2
2.4	Names . . . . .	4
2.5	Setup . . . . .	4
2.5.1	Package doc . . . . .	4
2.5.2	Page layout . . . . .	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>History</b>	<b>6</b>
[1999/06/26 v0.3]	. . . . .	6
[2000/08/14 v0.4]	. . . . .	6
[2001/08/27 v0.5]	. . . . .	6
[2001/09/02 v0.6]	. . . . .	6
[2006/06/02 v0.7]	. . . . .	6
[2007/10/21 v0.8]	. . . . .	6
[2007/11/11 v0.9]	. . . . .	7
[2007/12/12 v0.10]	. . . . .	7
<b>5</b>	<b>Index</b>	<b>7</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 Documentation</b>	<b>1</b>
1.1 Summary . . . . .	2
<b>2 Implementation</b>	<b>2</b>
2.1 Normalization . . . . .	2
2.1.1 Sanitize value of color option . . . . .	2
2.1.2 Normalize result . . . . .	3
2.2 Main algorithm for color options . . . . .	5
2.3 Package bookmark . . . . .	5
2.4 Utils . . . . .	7
2.5 Package hyperref . . . . .	7
2.5.1 Options Hyp.*color . . . . .	7
2.5.2 Generic algorithm . . . . .	9
2.5.3 Field options . . . . .	11
2.5.4 Detection for naked RGB values . . . . .	11
2.5.5 Options *bordercolor . . . . .	13
<b>3 Test</b>	<b>14</b>
<b>4 Installation</b>	<b>18</b>
4.1 Download . . . . .	18
4.2 Bundle installation . . . . .	19
4.3 Package installation . . . . .	19
4.4 Refresh file name databases . . . . .	19
4.5 Some details for the interested . . . . .	19
<b>5 History</b>	<b>20</b>
[2007/04/09 v1.0] . . . . .	20
[2007/04/11 v1.1] . . . . .	20
<b>6 Index</b>	<b>20</b>

# The hypbmsec package

## Abstract

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

<b>1</b>	<b>Usage</b>	<b>2</b>
1.1	Bookmarks restrictions . . . . .	2
1.2	<code>\texorpdfstring</code> . . . . .	2
1.3	Sectioning commands . . . . .	2
1.4	Places for sectioning strings . . . . .	2
1.5	Solution with optional arguments . . . . .	2
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 . . . . .	3
1.7	Without <code>hyperref</code> . . . . .	3
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 . . . . .	7
3.3	Package installation . . . . .	7
3.4	Refresh file name databases . . . . .	7
3.5	Some details for the interested . . . . .	8
<b>4</b>	<b>History</b>	<b>8</b>
	[1998/11/20 v1.0] . . . . .	8
	[1999/04/12 v2.0] . . . . .	8
	[2000/03/22 v2.1] . . . . .	8
	[2006/02/20 v2.2] . . . . .	9
	[2007/03/05 v2.3] . . . . .	9
	[2007/04/11 v2.4] . . . . .	9
<b>5</b>	<b>Index</b>	<b>9</b>

# The hypcap package

## Abstract

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

<b>1</b>	<b>Usage</b>	<b>1</b>
1.1	Package options . . . . .	2
1.2	User commands . . . . .	2
1.3	Limitations . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</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 . . . . .	5
3.5	Some details for the interested . . . . .	6
<b>4</b>	<b>History</b>	<b>6</b>
[1999/02/13 v1.0]	. . . . .	6
[2000/08/14 v1.1]	. . . . .	6
[2000/09/07 v1.2]	. . . . .	6
[2001/08/27 v1.3]	. . . . .	6
[2001/09/06 v1.4]	. . . . .	6
[2006/02/20 v1.5]	. . . . .	7
[2007/02/19 v1.6]	. . . . .	7
[2007/04/09 v1.7]	. . . . .	7
<b>5</b>	<b>Index</b>	<b>7</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 . . . . .	2
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> . . . . .	3
2.3	Check requirements . . . . .	4
2.4	Preamble for auxiliary file . . . . .	4
2.5	Generation of destination names . . . . .	4
2.6	Assign destination names . . . . .	6
2.7	Redefinition of <code>hyperref</code> 's hooks . . . . .	6
2.7.1	Destination setting . . . . .	7
2.7.2	Links . . . . .	7
2.7.3	Outlines . . . . .	8
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Download . . . . .	8
3.2	Bundle installation . . . . .	9
3.3	Package installation . . . . .	9
3.4	Refresh file name databases . . . . .	9
3.5	Some details for the interested . . . . .	9
<b>4</b>	<b>References</b>	<b>10</b>
<b>5</b>	<b>History</b>	<b>10</b>
	[2006/06/01 v1.0] . . . . .	10
	[2006/06/01 v2.0] . . . . .	10
	[2007/11/11 v2.1] . . . . .	10
<b>6</b>	<b>Index</b>	<b>10</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>2</b>
2.1	Options . . . . .	3
2.2	Simple example . . . . .	3
2.3	Example <code>source2e.tex</code> . . . . .	3
<b>3</b>	<b>Implementation</b>	<b>4</b>
3.1	Options . . . . .	4
3.2	Package loading . . . . .	4
3.3	Bookmarks . . . . .	5
3.4	<code>\tableofcontents</code> . . . . .	5
3.5	<code>\listoffigures</code> . . . . .	6
3.6	<code>\listoftables</code> . . . . .	6
3.7	<code>\thebibliography</code> . . . . .	7
3.8	<code>\theindex</code> . . . . .	7
3.9	<code>\theglossary</code> . . . . .	8
3.10	Index . . . . .	8
3.11	<code>\PrintDescribeMacro</code> . . . . .	11
3.12	<code>\PrintMacroName</code> . . . . .	11
3.13	<code>\theCodelineNo</code> . . . . .	11
3.14	<code>\SpecialUsageIndex</code> . . . . .	12
3.15	<code>\autoindex</code> . . . . .	12
3.16	<code>\SpecialEnvIndex</code> . . . . .	12
3.17	<code>\SortIndex</code> . . . . .	13
3.18	<code>\@wrglossary</code> . . . . .	13
3.19	<code>\MacroIndent</code> . . . . .	13
<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 . . . . .	14
4.5	Some details for the interested . . . . .	15
<b>5</b>	<b>History</b>	<b>15</b>
	[2002/05/10 v1.0] . . . . .	15
	[2006/02/20 v1.1] . . . . .	15
	[2006/04/27 v1.2] . . . . .	15
	[2006/06/01 v1.3] . . . . .	15

[2006/06/02 v1.4]	16
[2007/04/11 v1.5]	16
[2007/11/12 v1.6]	16
<b>6 Index</b>	<b>16</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 . . . . .	3
2.5	Implement gotoe action . . . . .	4
2.6	Keys for gotoe action . . . . .	5
<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>References</b>	<b>7</b>
<b>5</b>	<b>History</b>	<b>7</b>
	[2007/10/30 v0.1] . . . . .	7
<b>6</b>	<b>Index</b>	<b>7</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 . . . . .	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>
	[1999/12/28 v1.0] . . . . .	4
	[2005/10/05 v1.1] . . . . .	5
	[2006/02/20 v1.2] . . . . .	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>2</b>
2.1	Reload check and package identification . . . . .	3
2.2	Tools . . . . .	4
2.2.1	Provide some basic macros of L <sup>A</sup> T <sub>E</sub> X . . . . .	4
2.2.2	Expandible existence check for macros . . . . .	4
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# The ifluatex package

## Abstract

This package looks for L<sup>A</sup>T<sub>E</sub>X regardless of its mode and provides the switch `\ifluatex`. It works with plain-T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X.

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# The ifpdf package

## Abstract

This package looks for pdfTeX in pdf mode and implements and sets the switch `\ifpdf`. The detection is based on `\pdfoutput` and the package will not change this value. It works with plain or L<sup>A</sup>T<sub>E</sub>X formats.

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# The `ifvtex` package

## Abstract

This package looks for VT<sub>E</sub>X, implements and sets the switches `\ifvtex`, `\ifvtex<mode>`, `\ifvtexgex`. It works with plain or L<sup>A</sup>T<sub>E</sub>X formats.

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# The infwarerr package

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# The inputenx package

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

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# The intcalc package

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# The kvoptions package

## Abstract

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

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# The kvsetkeys package

## Abstract

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

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# 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.

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# The luacolor package

## Abstract

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

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# The luatex package

## Abstract

This package manages the new and extended features and resources that L<sup>A</sup>T<sub>E</sub>X provides. Examples are attributes and catcode tables.

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# The magicnum package

## Abstract

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

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# The makerobust package

## Abstract

Package makerobust provides `\MakeRobustCommand` that converts an existing macro to a robust one.

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# The pagesel package

## Abstract

Single pages or page areas can be selected for output.

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	[2006/02/20 v1.3] . . . . .	9
	[2006/03/02 v1.4] . . . . .	9
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<b>5</b>	<b>Index</b>	<b>10</b>

# The pdfcol package

## Abstract

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

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# The pdfcolfoot package

## Abstract

Since version 1.40 pdf<sub>T</sub>E<sub>X</sub> supports several color stacks. This package uses a separate color stack for footnotes that can break across pages.

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# The pdfcolmk package

## Abstract

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

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# The pdfcolparallel package

## Abstract

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

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<b>2</b>	<b>Implementation</b>	<b>2</b>
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# The pdfcolparcolumns package

## Abstract

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

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# 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>
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<b>5</b>	<b>Index</b>	<b>14</b>

# The pdfescape package

## Abstract

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

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# The pdfscape package

## Abstract

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

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# The pdf texcmds package

## Abstract

LUA<sub>T</sub><sub>E</sub>X provides most of the commands of pdf<sub>T</sub><sub>E</sub>X 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.

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2.5	Load module . . . . .	7
2.6	Lua functions . . . . .	7
2.7	Lua module . . . . .	9
<b>3</b>	<b>Test</b>	<b>14</b>
3.1	Catcode checks for loading . . . . .	14
<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>History</b>	<b>17</b>
[2007/11/11 v0.1]	. . . . .	17
[2007/11/12 v0.2]	. . . . .	17
[2007/12/12 v0.3]	. . . . .	17
<b>6</b>	<b>Index</b>	<b>17</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>1</b>
1.1	Introduction . . . . .	1
1.2	Options . . . . .	2
1.3	Example . . . . .	2
1.4	Supported packages . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Identification . . . . .	2
2.2	Options . . . . .	2
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 . . . . .	4
2.4	Redefinitions . . . . .	5
2.4.1	L <sup>A</sup> T <sub>E</sub> X base macros . . . . .	5
2.4.2	Package <code>pspicture</code> . . . . .	6
<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>History</b>	<b>7</b>
	[2006/08/26 v1.0] . . . . .	7
	[2007/04/11 v1.1] . . . . .	7
<b>5</b>	<b>Index</b>	<b>8</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>1</b>
1.1	Introduction . . . . .	2
1.2	Setup . . . . .	2
1.3	Symbol list . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>5</b>
2.1	Identification . . . . .	5
2.2	Dummy font encoding . . . . .	5
2.3	Setup . . . . .	5
2.4	Block elements . . . . .	5
2.4.1	U+2580 . . . . .	6
2.4.2	U+2584 . . . . .	6
2.4.3	U+2588 . . . . .	6
2.4.4	U+258C . . . . .	6
2.4.5	U+2590 . . . . .	6
2.4.6	U+2591 . . . . .	6
2.4.7	U+2592 . . . . .	7
2.4.8	U+2593 . . . . .	7
2.4.9	Color warning . . . . .	7
2.5	Box drawing, light single lines . . . . .	7
2.5.1	U+2500 . . . . .	8
2.5.2	U+2502 . . . . .	8
2.5.3	U+250C . . . . .	8
2.5.4	U+2510 . . . . .	8
2.5.5	U+2514 . . . . .	9
2.5.6	U+2518 . . . . .	9
2.5.7	U+251C . . . . .	9
2.5.8	U+2524 . . . . .	10
2.5.9	U+252C . . . . .	10
2.5.10	U+2534 . . . . .	10
2.5.11	U+253C . . . . .	11
2.6	Box drawing, double lines . . . . .	11
2.6.1	U+2550 . . . . .	11
2.6.2	U+2551 . . . . .	12
2.6.3	U+2552 . . . . .	12
2.6.4	U+2553 . . . . .	12
2.6.5	U+2554 . . . . .	13
2.6.6	U+2555 . . . . .	14
2.6.7	U+2556 . . . . .	14
2.6.8	U+2557 . . . . .	14

2.6.9	U+2558	15
2.6.10	U+2559	15
2.6.11	U+255A	16
2.6.12	U+255B	17
2.6.13	U+255C	17
2.6.14	U+255D	17
2.6.15	U+255E	18
2.6.16	U+255F	19
2.6.17	U+2560	19
2.6.18	U+2561	20
2.6.19	U+2562	20
2.6.20	U+2563	21
2.6.21	U+2564	21
2.6.22	U+2565	22
2.6.23	U+2566	22
2.6.24	U+2567	23
2.6.25	U+2568	23
2.6.26	U+2569	23
2.6.27	U+256A	24
2.6.28	U+256B	24
2.6.29	U+256C	25
2.7	Unicode support file	25
<b>3</b>	<b>Installation</b>	<b>26</b>
3.1	Download	26
3.2	Bundle installation	27
3.3	Package installation	27
3.4	Refresh file name databases	27
3.5	Some details for the interested	27
<b>4</b>	<b>References</b>	<b>28</b>
<b>5</b>	<b>History</b>	<b>28</b>
[2006/05/03 v1.0]		28
<b>6</b>	<b>Index</b>	<b>28</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>1</b>
1.1	Setting counters . . . . .	1
1.2	Expandable commands . . . . .	2
1.3	Undefined references . . . . .	2
1.4	Notes . . . . .	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>History</b>	<b>6</b>
[1998/04/08 v1.0]	. . . . .	6
[2000/09/07 v2.0]	. . . . .	7
[2006/02/20 v3.0]	. . . . .	7
<b>5</b>	<b>Index</b>	<b>7</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>3</b>
<b>3</b>	<b>Test</b>	<b>7</b>
<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>References</b>	<b>11</b>
<b>6</b>	<b>History</b>	<b>11</b>
	[2007/06/16 v1.0] . . . . .	11
	[2007/06/20 v1.1] . . . . .	11
	[2007/09/09 v1.2] . . . . .	11
<b>7</b>	<b>Index</b>	<b>11</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>3</b>
2.1	Package start stuff . . . . .	3
2.2	Interface macros . . . . .	5
2.3	Main part . . . . .	5
2.4	Environment support . . . . .	8
2.5	Option <code>hyperref</code> . . . . .	8
<b>3</b>	<b>Test</b>	<b>9</b>
3.1	Catcode checks for loading . . . . .	9
3.2	Test with package <code>url</code> . . . . .	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 . . . . .	11
4.5	Some details for the interested . . . . .	12
<b>5</b>	<b>References</b>	<b>12</b>
<b>6</b>	<b>History</b>	<b>12</b>
	[2005/10/05 v1.0] . . . . .	12
	[2005/10/07 v1.1] . . . . .	12
	[2005/10/18 v1.2] . . . . .	13
	[2006/02/12 v1.3] . . . . .	13
	[2006/08/26 v1.4] . . . . .	13
	[2007/04/26 v1.5] . . . . .	13
	[2007/05/17 v1.6] . . . . .	13
	[2007/09/09 v1.7] . . . . .	13
<b>7</b>	<b>Index</b>	<b>13</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>1</b>
1.1	Get box dimensions . . . . .	1
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>4</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 . . . . .	7
3.5	Some details for the interested . . . . .	7
<b>4</b>	<b>History</b>	<b>7</b>
[2000/02/11 v1.0]	. . . . .	7
[2000/09/07 v1.1]	. . . . .	7
[2006/02/20 v1.2]	. . . . .	7
[2007/04/11 v1.3]	. . . . .	8
<b>5</b>	<b>Index</b>	<b>8</b>

# The soulutf8 package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Patch . . . . .	2
1.2	Future . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Catcodes . . . . .	3
2.3	Loading packages . . . . .	4
2.3.1	plain- $\text{\TeX}$ . . . . .	4
2.3.2	$\text{\LaTeX}$ . . . . .	5
2.3.3	$\varepsilon\text{-TeX}$ . . . . .	5
2.4	Macro for redefinitions . . . . .	5
2.5	Redefinition of <code>\SOUL@eval</code> . . . . .	6
2.6	UTF-8 analysis . . . . .	9
2.6.1	Help strings . . . . .	9
2.6.2	Support for <code>utf8.def</code> . . . . .	9
2.6.3	Support for <code>utf8x.def</code> . . . . .	10
2.7	Actions for UTF-8 sequences . . . . .	10
2.7.1	Redefinition of <code>\SOUL@splittoken</code> . . . . .	11
2.8	Patches . . . . .	12
<b>3</b>	<b>Test</b>	<b>14</b>
3.1	Catcode checks for loading . . . . .	14
3.2	$\text{\LaTeX}$ tests . . . . .	16
3.2.1	Driver definitions . . . . .	17
3.2.2	Test macros . . . . .	18
3.2.3	Testing . . . . .	21
<b>4</b>	<b>Installation</b>	<b>22</b>
4.1	Download . . . . .	22
4.2	Bundle installation . . . . .	22
4.3	Package installation . . . . .	22
4.4	Refresh file name databases . . . . .	23
4.5	Some details for the interested . . . . .	23
<b>5</b>	<b>References</b>	<b>24</b>
<b>6</b>	<b>History</b>	<b>24</b>
	[2007/09/09 v1.0] . . . . .	24
<b>7</b>	<b>Index</b>	<b>24</b>

# The stackrel package

## Abstract

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

<b>1</b>	<b>User interface</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>3</b>
3.1	Download . . . . .	3
3.2	Bundle installation . . . . .	3
3.3	Package installation . . . . .	3
3.4	Refresh file name databases . . . . .	3
3.5	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>4</b>
[2006/12/02 v1.0]	. . . . .	4
[2007/05/06 v1.1]	. . . . .	4
[2007/11/11 v1.2]	. . . . .	4
<b>5</b>	<b>Index</b>	<b>4</b>



# The stringenc package

## Abstract

This package provides `\StringEncodingConvert` for converting a string between different encodings. Both  $\text{\LaTeX}$  and  $\text{plain-TeX}$  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>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	Tools . . . . .	5
2.4	Encoding aliases . . . . .	15
2.5	Encoding files . . . . .	17
2.5.1	UTF-32BE, UTF-32LE . . . . .	17
2.5.2	UTF-8 . . . . .	20
2.5.3	UTF-16LE . . . . .	25
2.5.4	PDFDocEncoding . . . . .	25
2.5.5	ISO-8859-1 . . . . .	27
2.5.6	CP1252 . . . . .	28
2.5.7	US-ASCII . . . . .	29
2.5.8	Other encodings (8 bit) . . . . .	30
<b>3</b>	<b>Test</b>	<b>72</b>
3.1	Catcode checks for loading . . . . .	72
3.2	Conversion tests . . . . .	73
3.2.1	UTF8/16/32 encodings . . . . .	74
3.2.2	ASCII . . . . .	76
3.2.3	PDFDocEncoding . . . . .	77
3.2.4	ISO-8859-1 . . . . .	77
3.2.5	CP1252 . . . . .	77
3.2.6	KOI8-R . . . . .	78
3.2.7	DEC-MCS . . . . .	78
3.3	Removal of byte order marks . . . . .	78
<b>4</b>	<b>Installation</b>	<b>79</b>
4.1	Download . . . . .	79
4.2	Bundle installation . . . . .	79
4.3	Package installation . . . . .	79
4.4	Refresh file name databases . . . . .	80
4.5	Some details for the interested . . . . .	80

<b>5 History</b>	<b>81</b>
[2007/06/14 v1.0] . . . . .	81
[2007/06/16 v1.1] . . . . .	81
[2007/09/09 v1.2] . . . . .	81
[2007/10/22 v1.3] . . . . .	81
[2007/11/11 v1.4] . . . . .	81
[2007/11/25 v1.5] . . . . .	81
<b>6 Index</b>	<b>82</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>1</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 . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Environments . . . . .	4
2.2	Options . . . . .	6
2.3	Option vlines, driver independent stuff . . . . .	7
2.4	Driver pdftex . . . . .	7
2.5	DVI drivers . . . . .	11
<b>3</b>	<b>Installation</b>	<b>13</b>
3.1	Download . . . . .	13
3.2	Bundle installation . . . . .	13
3.3	Package installation . . . . .	14
3.4	Refresh file name databases . . . . .	14
3.5	Some details for the interested . . . . .	14
<b>4</b>	<b>History</b>	<b>15</b>
[2005/09/22 v1.0]	. . . . .	15
[2005/10/16 v2.0]	. . . . .	15
[2005/10/18 v2.1]	. . . . .	15
[2006/02/20 v2.2]	. . . . .	15
[2006/12/22 v2.3]	. . . . .	15
[2007/03/21 v2.4]	. . . . .	15
[2007/04/11 v2.5]	. . . . .	15
<b>5</b>	<b>Index</b>	<b>15</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 . . . . .	3
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
<b>5</b>	<b>Index</b>	<b>4</b>

# The telprint package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Introduction . . . . .	2
1.2	Short overview in English . . . . .	2
1.2.1	Configuration . . . . .	2
1.3	Documentation in German . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Catcodes . . . . .	4
2.3	Package macros . . . . .	5
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Catcode checks for loading . . . . .	7
<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 . . . . .	9
<b>5</b>	<b>History</b>	<b>10</b>
	[1996/11/28 v1.0] . . . . .	10
	[1997/09/16 v1.1] . . . . .	10
	[1997/10/16 v1.2] . . . . .	10
	[1997/12/09 v1.3] . . . . .	10
	[2004/11/02 v1.4] . . . . .	10
	[2005/09/30 v1.5] . . . . .	10
	[2006/02/12 v1.6] . . . . .	10
	[2006/08/26 v1.7] . . . . .	10
	[2007/04/11 v1.8] . . . . .	11
	[2007/09/09 v1.9] . . . . .	11
<b>6</b>	<b>Index</b>	<b>11</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 version . . . . .	2
2.3	Transparency . . . . .	2
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Download . . . . .	4
3.2	Bundle installation . . . . .	4
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>5</b>
	[2007/01/08 v1.0] . . . . .	5
<b>5</b>	<b>Index</b>	<b>6</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>
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[1998/10/30 v1.1]	. . . . .	5
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# The zref package

## Abstract

Package `zref` tries to get rid of the restriction in L<sup>A</sup>T<sub>E</sub>X'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.

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