

# CTAN:macros/latex/contrib/oberdiek/

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## 1 Overview

<b>aliascnt</b> (contents)	2006/09/25 v1.2 Alias counter	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>alphalph</b> (contents)	2006/05/30 v1.4 Converting numbers to letters	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>attachfile2</b> (contents)	2006/08/16 v2.2 attach files into PDF	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>auxhook</b> (contents)	2006/05/31 v1.0 Hooks for auxiliary files	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>bmpsize</b> (contents)	2007/02/18 v1.1 Extract size and resolution data from bitmap files	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>bookmark</b> (contents)	2007/03/03 v0.6 PDF bookmarks	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>centernot</b> (contents)	2006/12/02 v1.0 Centers the not symbol horizontally	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>chemarr</b> (contents)	2006/02/20 v1.2 Chemical reaction arrows	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>classlist</b> (contents)	2006/02/20 v1.2 Record loaded classes	<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)	2006/02/20 v1.1 Fix for dvips.def	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>embedfile</b> (contents)	2006/08/16 v1.0 embed files into PDF	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

<b>engord</b> (contents)	2006/02/20 v1.2 Provides the ifpdf switch	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>epstopdf</b> (contents)	2006/08/26 v1.3 Conversion with epstopdf on the fly	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>flags</b> (contents)	2007/02/18 v0.1 Flag setting in bit fields	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>grffile</b> (contents)	2006/11/30 v1.2 Extended file name support for graphics	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>holtxdoc</b> (contents)	2006/06/02 v0.7 Private additional ltxdoc support	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypbmsec</b> (contents)	2006/03/05 v2.3 Bookmarks in sectioning commands	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypcap</b> (contents)	2007/02/19 v1.6 Adjusting anchors of captions	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypdestopt</b> (contents)	2006/06/01 v2.0 Hyperref destination optimizer	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>hypdoc</b> (contents)	2006/06/02 v1.4 Hyper extensions for doc.sty	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>ifdraft</b> (contents)	2006/02/20 v1.2 Switch for option draft	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>ifpdf</b> (contents)	2006/02/20 v1.4 Provides the ifpdf switch	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>ifvtex</b> (contents)	2007/01/10 v1.2 Switches for detecting VTeX and its modes	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>inputenx</b> (contents)	2006/08/24 v1.0 Enhanced input encoding handling	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>kvoptions</b> (contents)	2006/08/22 v2.4 Connects package keyval with L <sup>A</sup> T <sub>E</sub> X options	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>kvsetkeys</b> (contents)	2006/10/19 v1.1 Key value parser with default handler support	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>makerobust</b> (contents)	2006/03/18 v1.0 Making a macro robust	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pagesel</b> (contents)	2006/03/07 v1.5 Selecting shipout output pages	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcolfoot</b> (contents)	2007/01/08 v1.0 pdfTeX's color stack for footnotes	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

<b>pdfcolmk</b> (contents)	2007/01/01 v1.0 PDFtex COLor MarK	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfcrypt</b> (contents)	2006/02/20 v0.8 Setting pdf encryption	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfescape</b> (contents)	2006/02/25 v1.1 Provides hex, PDF name and string conversions	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pdfscape</b> (contents)	2006/04/24 v0.6 Landscape pages in PDF	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>picture</b> (contents)	2006/08/26 v1.0 Dimens for picture macros	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>pmboxdraw</b> (contents)	2006/05/03 v1.0 Poor man's box drawing characters	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>refcount</b> (contents)	2006/02/20 v3.0 Data extraction from references	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>setouterhbox</b> (contents)	2006/08/26 v1.4 Set hbox in outer horizontal mode	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>settobox</b> (contents)	2006/02/20 v1.2 Getting box sizes	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>stackrel</b> (contents)	2006/12/02 v1.0 Adding subscript option to stackrel	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>tabularht</b> (contents)	2006/12/22 v2.3 Tabular with height specification	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>tabularkv</b> (contents)	2006/02/20 v1.1 Key value interface for tabular parameters	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>telprint</b> (contents)	2006/08/16 v1.7 Formatting of German phone numbers	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>transparent</b> (contents)	2007/01/08 v1.0 Using a pdfTeX's color stack for transparency	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>twoopt</b> (contents)	2006/02/20 v1.4 Definitions with two optional arguments	<a href="#">[pdf]</a> <a href="#">[dtx]</a>
<b>zref</b> (contents)	2007/02/18 v1.5 New reference scheme for L <sup>A</sup> T <sub>E</sub> X 2 <sub>ε</sub>	<a href="#">[pdf]</a> <a href="#">[dtx]</a>

## 2 Packages

### 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>1</b>
1.1	Introduction . . . . .	1
1.2	Syntax . . . . .	1
<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>3</b>
3.1	Some details for the interested . . . . .	4
<b>4</b>	<b>Acknowledgment</b>	<b>4</b>
<b>5</b>	<b>References</b>	<b>4</b>
<b>6</b>	<b>History</b>	<b>4</b>
	[2006/02/20 v1.0] . . . . .	4
	[2006/08/16 v1.1] . . . . .	5
	[2006/09/25 v1.2] . . . . .	5
<b>7</b>	<b>Index</b>	<b>5</b>

# The alphalph package

## Abstract

The package provides the new expandable commands `\alphalph` and `\AlphAlph`. They are like `\number`, but the expansion consists of lowercase and uppercase letters respectively.

<b>1</b>	<b>Usage</b>	<b>1</b>
1.1	User commands . . . . .	2
1.1.1	New commands like <code>\alphalph</code> . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Begin of package . . . . .	2
2.2	Help macros . . . . .	3
2.3	User commands . . . . .	4
2.4	Conversion with standard $\text{\TeX}$ means . . . . .	4
2.4.1	Convert the separated digits to the letter result . . . . .	5
2.4.2	Addition by one . . . . .	5
2.5	Conversion with $\epsilon$ - $\text{\TeX}$ features . . . . .	7
2.6	Generic version . . . . .	8
2.7	End of package . . . . .	9
<b>3</b>	<b>Installation</b>	<b>9</b>
3.1	Some details for the interested . . . . .	9
<b>4</b>	<b>History</b>	<b>10</b>
[1999/03/19 v0.1]	. . . . .	10
[1999/04/12 v1.0]	. . . . .	10
[1999/04/13 v1.1]	. . . . .	10
[1999/06/26 v1.2]	. . . . .	10
[2006/02/20 v1.3]	. . . . .	10
[2006/05/30 v1.4]	. . . . .	10
<b>5</b>	<b>Index</b>	<b>11</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>1</b>
1.1	Introduction . . . . .	1
1.1.1	Future development . . . . .	2
1.2	User interface . . . . .	3
1.2.1	New options . . . . .	3
1.2.2	Perl script <code>pdfatfi.pl</code> . . . . .	3
1.3	Changes to <code>attachfile</code> . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Package . . . . .	3
2.2	Drivers . . . . .	16
2.2.1	pdfTeX . . . . .	16
2.2.2	dvips . . . . .	18
2.3	Perl script <code>pdfatfi.pl</code> . . . . .	26
<b>3</b>	<b>Installation</b>	<b>29</b>
3.1	Some details for the interested . . . . .	29
<b>4</b>	<b>References</b>	<b>30</b>
<b>5</b>	<b>History</b>	<b>30</b>
[2005/02/23 v2.0]	. . . . .	30
[2005/10/07 v2.1]	. . . . .	31
[2006/08/17 v2.2]	. . . . .	31
<b>6</b>	<b>Index</b>	<b>31</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 . . . . .	2
2.4	Patches . . . . .	3
2.4.1	\document . . . . .	3
2.4.2	\@include . . . . .	3
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Some details for the interested . . . . .	4
<b>4</b>	<b>References</b>	<b>5</b>
<b>5</b>	<b>History</b>	<b>5</b>
	[2006/05/31 v1.0] . . . . .	5
<b>6</b>	<b>Index</b>	<b>5</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 Documentation</b>	<b>2</b>
1.1 Introduction	2
1.2 Bitmap image parsers	2
1.2.1 User interface	3
1.2.2 Hints	3
1.2.3 Test program	3
1.2.4 Interface for programmers	4
1.3 Improved bitmap inclusion	4
<b>2 Implementation</b>	<b>4</b>
2.1 Basic package <b>bmpsize-base</b>	4
2.2 Bitmap formats	11
2.2.1 png	11
2.2.2 jpg	12
2.2.3 bmp	20
2.2.4 gif	21
2.2.5 tiff	22
2.2.6 pnm	26
2.2.7 pam	30
2.2.8 xpm	36
2.2.9 tga	40
2.2.10 pcx	42
2.2.11 msp	43
2.2.12 sgi	45
2.3 Package <b>bmpsize</b>	45
2.4 Drivers	48
2.4.1 dvips	48
2.4.2 dvipdfm	50
2.4.3 dvipdfmx	52
2.5 Test program <b>bmpsize-test.tex</b>	53
<b>3 Installation</b>	<b>55</b>
3.1 Some details for the interested	55



<b>4</b>	<b>References</b>	<b>56</b>
4.1	URLs for bitmap format descriptions . . . . .	56
4.1.1	JPEG . . . . .	56
4.1.2	PNG . . . . .	56
4.1.3	GIF . . . . .	56
4.1.4	BMP . . . . .	56
4.1.5	PCX . . . . .	56
4.1.6	MSP . . . . .	56
4.1.7	TIFF . . . . .	57
4.1.8	TGA . . . . .	57
4.1.9	SGI . . . . .	57
4.1.10	WMF . . . . .	57
4.1.11	XPM . . . . .	57
<b>5</b>	<b>History</b>	<b>57</b>
	[2006/08/24 v1.0] . . . . .	57
	[2007/02/18 v1.1] . . . . .	57
<b>6</b>	<b>Index</b>	<b>57</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>2</b>
1.1	Introduction . . . . .	2
1.2	Options . . . . .	2
1.2.1	Driver options . . . . .	2
1.2.2	Style options . . . . .	3
1.2.3	Action options . . . . .	3
1.2.4	Level options . . . . .	4
1.3	Compatibility with <code>hyperref</code> . . . . .	4
1.4	Limitations/Todos . . . . .	5
<b>2</b>	<b>Example</b>	<b>5</b>
<b>3</b>	<b>Implementation</b>	<b>6</b>
3.1	Package . . . . .	6
3.1.1	Requirements . . . . .	6
3.1.2	Package options . . . . .	7
3.1.3	Action options . . . . .	9
3.1.4	Driver setup and loading . . . . .	12
3.1.5	Compatibility for <code>hyperref</code> . . . . .	13
3.2	Driver for <code>dvipdfm</code> . . . . .	14
3.3	Driver for <code>VT<sub>E</sub>X</code> . . . . .	16
3.4	Driver for <code>pdf<sub>T</sub>E<sub>X</sub></code> . . . . .	21
3.5	Drivers with <code>pdfmark</code> specials . . . . .	22
3.5.1	Driver <code>dvips</code> . . . . .	22
3.5.2	Driver <code>dvipsone</code> . . . . .	22
3.5.3	Driver <code>textures</code> . . . . .	23
3.5.4	Common part . . . . .	23
3.6	Common part for <code>pdftex</code> and <code>pdfmark</code> . . . . .	25
3.6.1	Write auxiliary file . . . . .	25
3.6.2	Read auxiliary data . . . . .	27
<b>4</b>	<b>Installation</b>	<b>27</b>
4.1	Some details for the interested . . . . .	28
<b>5</b>	<b>History</b>	<b>28</b>
	[2007/02/19 v0.1] . . . . .	28
	[2007/02/20 v0.2] . . . . .	28
	[2007/02/21 v0.3] . . . . .	28
	[2007/02/22 v0.4] . . . . .	28

[2007/03/02 v0.5]	28
[2007/03/03 v0.6]	29
<b>6 Index</b>	<b>29</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>1</b>
<b>3</b>	<b>Installation</b>	<b>2</b>
3.1	Some details for the interested . . . . .	2
<b>4</b>	<b>History</b>	<b>3</b>
[2006/12/02 v1.0]	. . . . .	3
<b>5</b>	<b>Index</b>	<b>3</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 Usage</b>	<b>1</b>
1.1 Example . . . . .	1
<b>2 Implementation</b>	<b>2</b>
<b>3 Installation</b>	<b>3</b>
3.1 Some details for the interested . . . . .	3
<b>4 History</b>	<b>4</b>
[2001/06/21 v1.0] . . . . .	4
[2001/06/22 v1.1] . . . . .	4
[2006/02/20 v1.2] . . . . .	4
<b>5 Index</b>	<b>4</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 . . . . .	1
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>5</b>
	[2005/06/19 v1.0] . . . . .	5
	[2005/06/19 v1.1] . . . . .	5
	[2006/02/20 v1.2] . . . . .	5
<b>5</b>	<b>Index</b>	<b>5</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 . . . . .	2
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	Some details for the interested . . . . .	5
<b>4</b>	<b>References</b>	<b>6</b>
<b>5</b>	<b>History</b>	<b>6</b>
	[2006/08/01 v1.0] . . . . .	6
<b>6</b>	<b>Index</b>	<b>6</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 $\varepsilon$ -TEX . . . . .	2
1.2.2	Without $\varepsilon$ -TEX . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>3</b>
3.1	Some details for the interested . . . . .	3
<b>4</b>	<b>History</b>	<b>4</b>
[2000/08/31 v1.0]	. . . . .	4
[2006/02/20 v1.1]	. . . . .	4
<b>5</b>	<b>Index</b>	<b>4</b>



# The embedfile package

## Abstract

This package embeds files to a PDF document. Currently pdfTeX  $\lambda=1.30$  in PDF mode is supported only.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
1.1.1	Future development . . . . .	2
1.2	User interface . . . . .	2
1.3	Examples . . . . .	3
1.3.1	plain-TeX . . . . .	3
1.4	Package dtx-attach . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Reload check and package identification . . . . .	4
2.2	Tools . . . . .	5
2.3	Check for recent pdfTeX in PDF mode . . . . .	5
2.4	Key value definitions . . . . .	6
2.5	Embed the file . . . . .	6
<b>3</b>	<b>Installation</b>	<b>9</b>
3.1	Some details for the interested . . . . .	9
<b>4</b>	<b>References</b>	<b>10</b>
<b>5</b>	<b>History</b>	<b>10</b>
	[2006/08/16 v1.0] . . . . .	10
<b>6</b>	<b>Index</b>	<b>10</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>2</b>
2.1	Reload check and identification . . . . .	2
2.2	Help commands for plain compatibility . . . . .	3
2.3	User macros . . . . .	4
2.4	Suffix generation . . . . .	5
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Some details for the interested . . . . .	7
<b>4</b>	<b>History</b>	<b>7</b>
	[2000/05/23 v1.0] . . . . .	7
	[2003/04/28 v1.1] . . . . .	7
	[2006/02/20 v1.2] . . . . .	7
<b>5</b>	<b>Index</b>	<b>8</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>Usage</b>	<b>1</b>
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Relead check and identification . . . . .	2
2.2	Help macros for miniltx mode . . . . .	2
2.3	Checks . . . . .	3
2.4	Adding conversion support . . . . .	3
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>5</b>
[2001/01/06 v1.0]	. . . . .	5
[2001/02/04 v1.1]	. . . . .	5
[2006/02/20 v1.2]	. . . . .	5
[2006/08/26 v1.3]	. . . . .	5
<b>5</b>	<b>Index</b>	<b>5</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 . . . . .	1
1.2	ToDo . . . . .	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
<b>3</b>	<b>Installation</b>	<b>3</b>
3.1	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>4</b>
	[2007/02/18 v1.0] . . . . .	4
<b>5</b>	<b>Index</b>	<b>5</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>1</b>
1.1	Option <code>multidot</code> . . . . .	1
1.2	Option <code>babel</code> . . . . .	2
1.3	Option <code>extendedchars</code> . . . . .	2
1.4	Option <code>space</code> . . . . .	2
1.5	General use . . . . .	3
1.6	Default settings . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Identification . . . . .	3
2.2	Catcode stuff . . . . .	3
2.3	Options . . . . .	4
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Some details for the interested . . . . .	7
<b>4</b>	<b>References</b>	<b>7</b>
<b>5</b>	<b>History</b>	<b>8</b>
	[2004/07/18 v0.5] . . . . .	8
	[2006/08/15 v1.0] . . . . .	8
	[2006/08/17 v1.1] . . . . .	8
	[2006/11/30 v1.2] . . . . .	8
<b>6</b>	<b>Index</b>	<b>8</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>4</b>
3.1	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>5</b>
[1999/06/26 v0.3]	. . . . .	5
[2000/08/14 v0.4]	. . . . .	5
[2001/08/27 v0.5]	. . . . .	5
[2001/09/02 v0.6]	. . . . .	5
[2006/06/02 v0.7]	. . . . .	6
<b>5</b>	<b>Index</b>	<b>6</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>1</b>
1.1	Bookmarks restrictions . . . . .	1
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	Some details for the interested . . . . .	7
<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] . . . . .	8
	[2007/03/05 v2.3] . . . . .	8
<b>5</b>	<b>Index</b>	<b>8</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 . . . . .	1
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>4</b>
3.1	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>5</b>
[1999/02/13 v1.0]	. . . . .	5
[2000/08/14 v1.1]	. . . . .	5
[2000/09/07 v1.2]	. . . . .	6
[2001/08/27 v1.3]	. . . . .	6
[2001/09/06 v1.4]	. . . . .	6
[2006/02/20 v1.5]	. . . . .	6
[2007/02/19 v1.6]	. . . . .	6
<b>5</b>	<b>Index</b>	<b>6</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>1</b>
1.1	Introduction . . . . .	1
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 . . . . .	3
2.4	Preamble for auxiliary file . . . . .	4
2.5	Generation of destination names . . . . .	4
2.6	Assign destination names . . . . .	5
2.7	Redefinition of hyperref's hooks . . . . .	6
2.7.1	Destination setting . . . . .	7
2.7.2	Links . . . . .	7
2.7.3	Outlines . . . . .	7
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Some details for the interested . . . . .	9
<b>4</b>	<b>References</b>	<b>9</b>
<b>5</b>	<b>History</b>	<b>9</b>
	[2006/06/01 v1.0] . . . . .	9
	[2006/06/01 v2.0] . . . . .	9
<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>1</b>
<b>2</b>	<b>Usage</b>	<b>2</b>
2.1	Options . . . . .	2
2.2	Simple example . . . . .	2
2.3	Example <code>source2e.tex</code> . . . . .	3
<b>3</b>	<b>Implementation</b>	<b>3</b>
<b>4</b>	<b>Installation</b>	<b>11</b>
4.1	Some details for the interested . . . . .	11
<b>5</b>	<b>History</b>	<b>12</b>
[2002/05/10 v1.0]	. . . . .	12
[2006/02/20 v1.1]	. . . . .	12
[2006/04/27 v1.2]	. . . . .	12
[2006/06/01 v1.3]	. . . . .	12
[2006/06/02 v1.4]	. . . . .	12
<b>6</b>	<b>Index</b>	<b>13</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	Some details for the interested . . . . .	3
<b>4</b>	<b>History</b>	<b>4</b>
	[1999/12/28 v1.0] . . . . .	4
	[2005/10/05 v1.1] . . . . .	4
	[2006/02/20 v1.2] . . . . .	4
<b>5</b>	<b>Index</b>	<b>4</b>

# 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.

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
1.2	Usage . . . . .	2
1.3	Specification . . . . .	2
1.4	Future . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>3</b>
2.1	Reload check and package identification . . . . .	3
2.2	Check for previously defined <code>\ifpdf</code> . . . . .	4
2.3	<code>\ifpdf</code> . . . . .	4
2.4	Protocol entry . . . . .	4
<b>3</b>	<b>Installation</b>	<b>5</b>
3.1	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>6</b>
	[2001/06/14 v1.0] . . . . .	6
	[2001/07/14 v1.1] . . . . .	6
	[2001/09/26 v1.2] . . . . .	6
	[2005/07/22 v1.3] . . . . .	6
	[2006/02/20 v1.4] . . . . .	6
<b>5</b>	<b>Index</b>	<b>6</b>

# 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.

<b>1</b>	<b>Usage</b>	<b>1</b>
<b>2</b>	<b>Implemenation</b>	<b>2</b>
2.1	Reload check and package identification . . . . .	2
2.2	Check for previously defined <code>\ifvtex</code> . . . . .	3
2.3	<code>\ifvtex</code> . . . . .	3
2.4	Mode and GeX switches . . . . .	3
2.5	Protocol entry . . . . .	4
<b>3</b>	<b>Installation</b>	<b>4</b>
3.1	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>5</b>
[2001/09/26 v1.0]	. . . . .	5
[2006/02/20 v1.1]	. . . . .	5
[2007/01/10 v1.2]	. . . . .	5
<b>5</b>	<b>Index</b>	<b>6</b>

# The inputenx package

## Abstract

This package deals with input encodings. The first stage is already available. It 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>2</b>
1.1	Definition files . . . . .	2
1.2	Unicode . . . . .	3
1.3	Math . . . . .	3
1.4	ToDo . . . . .	3
<b>2</b>	<b>Implementation</b>	<b>4</b>
2.1	Identification . . . . .	4
2.2	Encoding names . . . . .	4
2.2.1	Record current encoding names . . . . .	4
2.2.2	Aliases for encoding names . . . . .	4
2.3	Package options . . . . .	5
2.3.1	Declare and process options . . . . .	5
2.3.2	Load inputenc with encoding options . . . . .	5
2.3.3	\InputEncoding . . . . .	5
2.3.4	Option math . . . . .	6
2.4	Alias encoding file . . . . .	6
2.5	Encoding files . . . . .	7
2.5.1	Encoding ascii . . . . .	7
2.5.2	Encoding iso-8859-1 . . . . .	7
2.5.3	Encoding iso-8859-2 . . . . .	9
2.5.4	Encoding iso-8859-3 . . . . .	12
2.5.5	Encoding iso-8859-4 . . . . .	14
2.5.6	Encoding iso-8859-9 . . . . .	16
2.5.7	Encoding iso-8859-10 . . . . .	18
2.5.8	Encoding iso-8859-13 . . . . .	20
2.5.9	Encoding iso-8859-14 . . . . .	23
2.5.10	Encoding iso-8859-15 . . . . .	24
2.5.11	Encoding iso-8859-16 . . . . .	26
2.5.12	Encoding cp437 . . . . .	28
2.5.13	Encoding cp850 . . . . .	32
2.5.14	Encoding cp852 . . . . .	35
2.5.15	Encoding cp858 . . . . .	38
2.5.16	Encoding cp865 . . . . .	41
2.5.17	Encoding cp1250 . . . . .	45
2.5.18	Encoding cp1252 . . . . .	48
2.5.19	Encoding cp1257 . . . . .	51
2.5.20	Encoding mac-roman . . . . .	54
2.5.21	Encoding mac-ce . . . . .	57

2.5.22	Encoding nextstep . . . . .	60
2.5.23	Encoding dec-mcs . . . . .	63
2.5.24	Non-Unicode additions . . . . .	65
2.6	Additions for <code>utf8enc.dfu</code> . . . . .	65
2.7	Name list . . . . .	68
2.8	Mapping Slot, UC to Encodings . . . . .	68
2.9	Mapping UC to LICR . . . . .	68
2.10	Math meaning declarations . . . . .	68
2.11	Documentation files . . . . .	70
2.11.1	List of known LICR commands . . . . .	70
2.11.2	Commented additions for <code>utf8enc.dfu</code> . . . . .	71
<b>3</b>	<b>Installation</b>	<b>72</b>
3.1	Some details for the interested . . . . .	73
<b>4</b>	<b>References</b>	<b>73</b>
4.1	Mappings to Unicode . . . . .	73
<b>5</b>	<b>History</b>	<b>74</b>
[2006/03/05 v1.0]	. . . . .	74
<b>6</b>	<b>Index</b>	<b>74</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>2</b>
1.1	The beginning . . . . .	2
1.2	Overview . . . . .	2
<b>2</b>	<b>Usage</b>	<b>3</b>
2.1	Process options . . . . .	3
2.1.1	\ProcessKeyvalOptions . . . . .	3
2.1.2	\SetupKeyvalOptions . . . . .	3
2.2	Option declarations . . . . .	3
2.2.1	\DeclareStringOption . . . . .	4
2.2.2	\DeclareBoolOption . . . . .	4
2.2.3	\DeclareComplementaryOption . . . . .	5
2.2.4	\DeclareVoidOption . . . . .	5
2.2.5	\DeclareDefaultOption . . . . .	5
2.2.6	Dynamic options . . . . .	5
2.2.7	\DisableKeyvalOption . . . . .	6
2.3	Summary of internal macros . . . . .	7
<b>3</b>	<b>Example</b>	<b>7</b>
<b>4</b>	<b>Package options</b>	<b>9</b>
4.1	Option patch . . . . .	9
4.2	Option debugshow . . . . .	10
<b>5</b>	<b>Limitations</b>	<b>10</b>
5.1	Compatibility . . . . .	10
5.1.1	Option patch vs. package xkvltxp . . . . .	10
5.2	Limitations . . . . .	11
5.2.1	Option comparisons . . . . .	11
5.2.2	Option list parsing with option patch . . . . .	11
<b>6</b>	<b>Implementation</b>	<b>11</b>
6.1	Preamble . . . . .	11
6.2	Option declaration macros . . . . .	12
6.2.1	\SetupKeyvalOptions . . . . .	12
6.2.2	\DeclareBoolOption . . . . .	13
6.2.3	\DeclareStringOption . . . . .	15
6.2.4	\DeclareVoidOption . . . . .	16
6.2.5	\DeclareDefaultOption . . . . .	17
6.3	Dynamic options . . . . .	17
6.3.1	\DisableKeyvalOption . . . . .	17



6.4	Process options . . . . .	19
6.5	\ProcessKeyvalOptions . . . . .	19
6.5.1	Helper macros . . . . .	21
6.6	Patch . . . . .	21
<b>7</b>	<b>Installation</b>	<b>28</b>
7.1	Some details for the interested . . . . .	29
<b>8</b>	<b>References</b>	<b>29</b>
<b>9</b>	<b>History</b>	<b>30</b>
	[0000/00/00 v0.0] . . . . .	30
	[2004/02/22 v1.0] . . . . .	30
	[2006/02/16 v2.0] . . . . .	30
	[2006/02/20 v2.1] . . . . .	30
	[2006/06/01 v2.2] . . . . .	30
	[2006/08/17 v2.3] . . . . .	30
	[2006/08/22 v2.4] . . . . .	30
<b>10</b>	<b>Index</b>	<b>31</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>1</b>
1.1	Normalizing key value lists . . . . .	2
1.2	Parsing key value lists . . . . .	2
1.3	Processing key value pairs . . . . .	3
1.4	Default family handler . . . . .	3
1.5	Do it all . . . . .	3
<b>2</b>	<b>Example</b>	<b>3</b>
<b>3</b>	<b>Implementation</b>	<b>4</b>
3.1	Identification . . . . .	4
3.2	Normalizing key value lists . . . . .	5
3.3	Parsing key value lists . . . . .	8
3.4	Processing key value pairs . . . . .	9
3.5	Error handling . . . . .	9
3.6	Do it all . . . . .	10
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Some details for the interested . . . . .	11
<b>5</b>	<b>References</b>	<b>11</b>
<b>6</b>	<b>History</b>	<b>12</b>
	[2006/03/06 v1.0] . . . . .	12
	[2006/10/19 v1.1] . . . . .	12
<b>7</b>	<b>Index</b>	<b>12</b>

# The makerobust package

## Abstract

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

<b>1</b>	<b>User interface</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	Some details for the interested . . . . .	3
<b>4</b>	<b>History</b>	<b>4</b>
	[2006/03/18 v1.0] . . . . .	4
<b>5</b>	<b>Index</b>	<b>4</b>

# The pagesel package

## Abstract

Single pages or page areas can be selected for output.

<b>1 Usage</b>	<b>1</b>
1.1 Page selecting . . . . .	2
1.1.1 Options for selecting pages . . . . .	2
1.1.2 Examples . . . . .	2
1.2 Auxiliary files . . . . .	2
1.2.1 Options for handling auxiliary files . . . . .	2
1.2.2 Package <code>hyperref</code> . . . . .	2
<b>2 Implementation</b>	<b>3</b>
2.1 Package . . . . .	3
2.2 <code>AtBeginDvi</code> hook support . . . . .	6
<b>3 Installation</b>	<b>7</b>
3.1 Some details for the interested . . . . .	7
<b>4 History</b>	<b>8</b>
[1999/03/01 v0.9] . . . . .	8
[1999/04/05 v1.0] . . . . .	8
[1999/04/13 v1.1] . . . . .	8
[2003/06/05 v1.2] . . . . .	8
[2006/02/20 v1.3] . . . . .	9
[2006/03/02 v1.4] . . . . .	9
[2006/03/07 v1.5] . . . . .	9
<b>5 Index</b>	<b>9</b>

# The pdfcolfoot package

## Abstract

Since version 1.40 pdfT<sub>E</sub>X 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>1</b>
1.1	Other packages or classes . . . . .	1
<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>2</b>
3.1	Identification . . . . .	2
3.2	Initial checks . . . . .	2
3.2.1	Check for pdfT <sub>E</sub> X in PDF mode . . . . .	2
3.2.2	Check pdfT <sub>E</sub> X version . . . . .	3
3.2.3	Check <code>pdftex.def</code> version . . . . .	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>Installation</b>	<b>6</b>
4.1	Some details for the interested . . . . .	6
<b>5</b>	<b>History</b>	<b>7</b>
	[2007/01/08 v1.0] . . . . .	7
<b>6</b>	<b>Index</b>	<b>7</b>

# The pdfcolmk package

## Abstract

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

<b>1</b>	<b>Documentation</b>	<b>1</b>
1.1	Introduction . . . . .	1
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 . . . . .	6
2.1.4	refman/refart.cls, refnam/refrep.cls . . . . .	7
2.2	Color fix . . . . .	9
<b>3</b>	<b>Installation</b>	<b>10</b>
3.1	Some details for the interested . . . . .	10
<b>4</b>	<b>History</b>	<b>11</b>
	[2000/08/27 v0.1] . . . . .	11
	[2000/09/02 v0.2] . . . . .	11
	[2000/09/02 v0.3] . . . . .	11
	[2000/09/06 v0.4] . . . . .	11
	[2000/09/06 v0.5] . . . . .	11
	[2005/06/15 v0.6] . . . . .	11
	[2005/07/09 v0.7] . . . . .	11
	[2006/02/20 v0.8] . . . . .	12
	[2007/01/01 v1.0] . . . . .	12
<b>5</b>	<b>Index</b>	<b>12</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>1</b>
1.1	Alternatives . . . . .	2
1.2	Usage . . . . .	2
1.2.1	Special characters . . . . .	2
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>3</b>
2.1	Help macros for plain-T <sub>E</sub> X . . . . .	3
2.2	Package Identification and checks . . . . .	5
2.3	Driver detection . . . . .	5
2.4	Load package keyval . . . . .	6
2.5	Define options . . . . .	8
2.6	support of configuration file . . . . .	12
2.7	Package options . . . . .	12
<b>3</b>	<b>Installation</b>	<b>12</b>
3.1	Some details for the interested . . . . .	13
<b>4</b>	<b>History</b>	<b>13</b>
	[2001/04/02 v0.1] . . . . .	13
	[2001/07/19 v0.2] . . . . .	13
	[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] . . . . .	14
<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.

<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	Preparations . . . . .	3
2.2.1	Catcodes . . . . .	3
2.3	User macros . . . . .	3
2.4	Help macros . . . . .	4
2.4.1	Characters . . . . .	4
2.4.2	Switch for $\epsilon$ -TeX . . . . .	5
2.5	Sanitizing . . . . .	5
2.6	Conversions . . . . .	6
2.6.1	Conversion to hex string . . . . .	6
2.6.2	Character code to octal number . . . . .	7
2.6.3	Unpack hex string . . . . .	7
2.6.4	Conversion to PDF name . . . . .	8
2.6.5	Conversion to PDF string . . . . .	9
<b>3</b>	<b>Test</b>	<b>10</b>
3.1	Test with <code>\pdfescape...</code> commands . . . . .	10
3.2	Test without <code>\pdfescape...</code> , with $\epsilon$ -TeX . . . . .	10
3.3	Test without <code>\pdfescape...</code> and $\epsilon$ -TeX . . . . .	10
3.4	Check/ensure test preconditions . . . . .	10
3.4.1	Check <code>\pdfescape...</code> . . . . .	10
3.4.2	Check $\epsilon$ -TeX . . . . .	10
3.5	Common part . . . . .	10
<b>4</b>	<b>Installation</b>	<b>13</b>
4.1	Some details for the interested . . . . .	14
<b>5</b>	<b>History</b>	<b>14</b>
	[2007/02/21 v1.0] . . . . .	14
	[2007/02/25 v1.1] . . . . .	15
<b>6</b>	<b>Index</b>	<b>15</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 Documentation</b>	<b>1</b>
1.1 Supported drivers . . . . .	1
1.2 Caveat . . . . .	2
1.3 Requirements . . . . .	2
1.4 Usage . . . . .	2
<b>2 Implementation</b>	<b>2</b>
2.1 Package identification . . . . .	2
2.2 Driver options . . . . .	2
2.3 Autodetection of driver . . . . .	3
2.3.1 Driver pdftex . . . . .	3
2.3.2 Driver dvips . . . . .	3
2.3.3 Driver dvipdfm . . . . .	3
2.4 Driver implementation . . . . .	4
2.4.1 pdfTEX . . . . .	4
2.4.2 PostScript driver . . . . .	5
2.4.3 Driver dvipdfm . . . . .	5
2.5 Driver independent stuff . . . . .	5
<b>3 Installation</b>	<b>6</b>
3.1 Some details for the interested . . . . .	7
<b>4 History</b>	<b>7</b>
[2001/01/15 v0.1] . . . . .	7
[2001/02/04 v0.2] . . . . .	7
[2004/05/11 v0.3] . . . . .	8
[2004/05/12 v0.4] . . . . .	8
[2006/02/20 v0.5] . . . . .	8
[2006/04/24 v0.6] . . . . .	8
<b>5 Index</b>	<b>8</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	$\LaTeX$ base macros . . . . .	5
2.4.2	Package <code>pspicture</code> . . . . .	6
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Some details for the interested . . . . .	6
<b>4</b>	<b>History</b>	<b>7</b>
	[2006/08/26 v1.0] . . . . .	7
<b>5</b>	<b>Index</b>	<b>7</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 . . . . .	1
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 . . . . .	5
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 . . . . .	7
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 . . . . .	13
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	18
2.6.17	U+2560	19
2.6.18	U+2561	20
2.6.19	U+2562	20
2.6.20	U+2563	20
2.6.21	U+2564	21
2.6.22	U+2565	22
2.6.23	U+2566	22
2.6.24	U+2567	22
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	Some details for the interested	27
<b>4</b>	<b>References</b>	<b>27</b>
<b>5</b>	<b>History</b>	<b>28</b>
[2006/03/14 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	Some details for the interested . . . . .	5
<b>4</b>	<b>History</b>	<b>6</b>
[1998/04/08 v1.0]	. . . . .	6
[2000/09/07 v2.0]	. . . . .	6
[2006/02/20 v3.0]	. . . . .	6
<b>5</b>	<b>Index</b>	<b>6</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>1</b>
1.1	Introduction . . . . .	1
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	Main part . . . . .	4
2.3	Environment support . . . . .	7
2.4	Option <code>hyperref</code> . . . . .	7
<b>3</b>	<b>Installation</b>	<b>8</b>
3.1	Some details for the interested . . . . .	8
<b>4</b>	<b>References</b>	<b>9</b>
<b>5</b>	<b>History</b>	<b>9</b>
	[2005/10/05 v1.0] . . . . .	9
	[2005/10/07 v1.1] . . . . .	9
	[2005/10/18 v1.2] . . . . .	9
	[2006/02/12 v1.3] . . . . .	9
	[2006/08/26 v1.4] . . . . .	9
<b>6</b>	<b>Index</b>	<b>10</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	Some details for the interested . . . . .	6
<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
<b>5</b>	<b>Index</b>	<b>7</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>1</b>
<b>3</b>	<b>Installation</b>	<b>2</b>
3.1	Some details for the interested . . . . .	3
<b>4</b>	<b>History</b>	<b>3</b>
[2006/12/02 v1.0]	. . . . .	3
<b>5</b>	<b>Index</b>	<b>4</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 . . . . .	10
<b>3</b>	<b>Installation</b>	<b>13</b>
3.1	Some details for the interested . . . . .	13
<b>4</b>	<b>History</b>	<b>14</b>
	[2005/09/22 v1.0] . . . . .	14
	[2005/10/16 v2.0] . . . . .	14
	[2005/10/18 v2.1] . . . . .	14
	[2006/02/20 v2.2] . . . . .	14
	[2006/12/22 v2.3] . . . . .	14
<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	Some details for the interested . . . . .	3
<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>1</b>
1.1	Introduction . . . . .	1
1.2	Short overview in English . . . . .	1
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
<b>3</b>	<b>Installation</b>	<b>6</b>
3.1	Some details for the interested . . . . .	6
<b>4</b>	<b>History</b>	<b>7</b>
	[1996/11/28 v1.0] . . . . .	7
	[1997/09/16 v1.1] . . . . .	7
	[1997/10/16 v1.2] . . . . .	7
	[1997/12/09 v1.3] . . . . .	7
	[2004/11/02 v1.4] . . . . .	7
	[2005/09/30 v1.5] . . . . .	7
	[2006/02/12 v1.6] . . . . .	7
	[2006/08/26 v1.7] . . . . .	7
<b>5</b>	<b>Index</b>	<b>8</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	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>5</b>
	[2007/01/08 v1.0] . . . . .	5
<b>5</b>	<b>Index</b>	<b>5</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	Some details for the interested . . . . .	4
<b>4</b>	<b>History</b>	<b>4</b>
[1998/10/30 v1.0]	. . . . .	4
[1998/10/30 v1.1]	. . . . .	4
[1998/11/04 v1.2]	. . . . .	4
[1999/04/12 v1.3]	. . . . .	5
[2006/02/20 v1.4]	. . . . .	5
<b>5</b>	<b>Index</b>	<b>5</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>2</b>
1.1	Standard $\text{\LaTeX}$ behaviour	3
1.2	Basic idea	3
1.3	Interfaces	3
<b>2</b>	<b>Interface for programmers</b>	<b>4</b>
2.1	Entities	4
2.2	Property list	4
2.3	Property	5
2.4	Reference generation	5
2.5	Data extraction	6
2.6	Setup	6
2.7	Declared properties	7
2.8	Wrapper for advanced situations	7
2.9	Counter for unique names	7
<b>3</b>	<b>User interface</b>	<b>8</b>
3.1	Module <code>user</code>	8
3.2	Module <code>abspage</code>	9
3.3	Module <code>lastpage</code>	9
3.4	Module <code>totpages</code>	9
3.5	Module <code>perpage</code>	9
3.6	Module <code>counter</code>	10
3.7	Module <code>titleref</code>	10
3.8	Module <code>savepos</code>	10
3.9	Module <code>dotfill</code>	11
3.10	Module <code>xr</code>	11
<b>4</b>	<b>ToDo</b>	<b>12</b>
<b>5</b>	<b>Example</b>	<b>12</b>
<b>6</b>	<b>Implementation</b>	<b>15</b>
6.1	Package <code>zref</code>	15
6.1.1	Identification	15
6.1.2	Load basic module	15
6.1.3	Process options	15
6.2	Module <code>base</code>	15

6.2.1	Prefixes	15
6.2.2	Identification	16
6.2.3	Utilities	16
6.2.4	Check for $\varepsilon$ -TEX	16
6.2.5	Auxiliary file stuff	17
6.2.6	Property lists	17
6.2.7	Properties	18
6.2.8	Reference generation	19
6.2.9	Reference querying and extracting	21
6.2.10	Compatibility with <code>babel</code>	22
6.2.11	Unique counter support	23
6.2.12	Setup	23
6.3	Module <code>user</code>	24
6.4	Module <code>abspage</code>	24
6.5	Module <code>counter</code>	25
6.6	Module <code>lastpage</code>	25
6.7	Module <code>totpages</code>	26
6.8	Module <code>perpage</code>	26
6.9	Module <code>titleref</code>	28
6.9.1	Implementation	28
6.9.2	User interface	29
6.9.3	Patches for section and caption commands	30
6.10	Module <code>xr</code>	31
6.11	Module <code>hyperref</code>	36
6.12	Module <code>savepos</code>	36
6.12.1	Identification	36
6.12.2	Availability	36
6.12.3	Setup	37
6.12.4	User macros	37
6.13	Module <code>dotfill</code>	37
<b>7</b>	<b>Installation</b>	<b>38</b>
7.1	Some details for the interested	39
<b>8</b>	<b>References</b>	<b>40</b>
<b>9</b>	<b>History</b>	<b>40</b>
	[2006/02/20 v1.0]	40
	[2006/05/03 v1.1]	40
	[2006/05/25 v1.2]	40
	[2006/09/08 v1.3]	40
	[2007/01/23 v1.4]	40
	[2007/02/18 v1.5]	40
<b>10</b>	<b>Index</b>	<b>41</b>