

# CTAN:macros/latex/contrib/oberdiek/

Heiko Oberdiek  
<[ho-tex at tug.org](mailto:ho-tex@tug.org)>

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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 `alphalph` 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 reimplemention 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 `atveryend` package

## Abstract

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

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

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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  $\varepsilon$ - $\text{\TeX}$ . Both  $\text{\LaTeX}$  and plain- $\text{\TeX}$  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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1.2 Symbols . . . . .	2
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1.3.1 Example . . . . .	3
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2.4 Combined symbols . . . . .	4
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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  $\geq 1.30$  in PDF mode.

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1.5.2 Collection example . . . . .	6
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# The `engord` package

## Abstract

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

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[2007/04/26 v1.4] . . . . .	12
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# The `enparen` package

## Abstract

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

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# The `eolgrab` package

## Abstract

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

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<b>8 Index</b>	<b>13</b>

# The `epstopdf` package

## Abstract

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

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# 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 Documentation</b>	<b>2</b>
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# The **fibnum** package

## Abstract

The package **fibnum** provides expandable fibonacci numbers for both L<sup>A</sup>T<sub>E</sub>X and plain T<sub>E</sub>X.

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# The `flags` package

## Abstract

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

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# The `getttitlestring` package

## Abstract

The L<sup>A</sup>T<sub>E</sub>X package addresses packages that are dealing with references to titles (`\section`, `\caption`, ...). The package tries to remove `\label` and other commands from title strings.

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# The `grfext` package

## Abstract

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

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# 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.

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# The **hobsub** package

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# The `hologo` package

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# 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`.

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# The `hopatch` package

## Abstract

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

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# 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.

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# 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.

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# 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.

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# 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.

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# The `hypdoc` package

## Abstract

This package adds hyper features to the package `doc` that is used in the documentation system of L<sup>A</sup>T<sub>E</sub>X 2 <sub>$\varepsilon$</sub> . Bookmarks are added and references are linked as far as possible.

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# The **hypgtoe** package

## Abstract

Experimental package for links to embedded files.

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# The `hyphsubst` package

## Abstract

A TeX format file may include alternative hyphenation patterns for a language with a different name. If the naming convention follows babel's rules, then the hyphenation patterns for a language can be replaced by the alternative hyphenation patterns, provided in the format file.

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# The **ifdraft** package

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

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# The `iflang` package

## Abstract

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

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# The `ifluatex` package

## Abstract

This package looks for LUATEX regardless of its mode and provides the switch `\ifluatex`. Also it makes `\luatexversion` available if it is not present. It works with plain-TEX or LATEX.

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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 LATEX formats.

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# The `ifvtex` package

## Abstract

This package looks for VTeX, 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

## Abstract

This package provides input encodings using standard mappings and covers nearly all slots. Thus it serves as more up-to-date replacement for package `inputenc`.

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# The `intcalc` package

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# The `kvdefinekeys` package

## Abstract

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

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# The `kvoptions` package

## Abstract

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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 `letltxmacro` package

## Abstract

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

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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 `ltxcmds` package

## Abstract

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

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# The luacolor package

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Package luacolor implements color support based on LUATEX's node attributes.

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# The `luatex` package

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This package manages the new and extended features and resources that LUATEX provides. Examples are attributes and catcode tables.

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# The `magicnum` package

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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 **mleftright** package

## Abstract

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

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# The **pagegrid** package

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

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# The **pagesel** package

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Single pages or page areas can be selected for output.

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# The **pdfcol** package

## Abstract

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

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# The **pdfcolfoot** package

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# The `pdfcolmk` package

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# The **pdfcolparallel** package

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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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# The `pdfcolparcolumns` package

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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

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This package supports the setting of pdf encryption options for VTeX and some older versions of pdfTeX.

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# The `pdfescape` package

## Abstract

This package implements pdf $\text{\TeX}$ 's escape features (`\pdfescapehex`, `\pdfunescapehex`, `\pdfescapename`, `\pdfescapestring`) using  $\text{\TeX}$  or  $\varepsilon\text{-}\text{\TeX}$ .

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# The `pdflscape` package

## Abstract

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# The `pdfrender` package

## Abstract

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# The `pdftexcmds` package

## Abstract

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

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# The `picture` package

## Abstract

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

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# The `pmbboxdraw` package

## Abstract

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

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# The `protecteddef` package

## Abstract

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

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# 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.

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# The `rerunfilecheck` package

## Abstract

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

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# The `resizegather` package

## Abstract

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

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# The `rotchiffre` package

## Abstract

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

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# The `scrindex` package

## Abstract

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

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# The `selinput` package

## Abstract

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

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# The `setouterbox` package

## Abstract

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

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# 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.

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# 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.

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# 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.

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# The `stampinclude` package

## Abstract

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

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# The `stringenc` package

## Abstract

This package provides `\StringEncodingConvert` for converting a string between different encodings. Both L<sup>A</sup>T<sub>E</sub>X and plain-T<sub>E</sub>X are supported.

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# The `tabularht` package

## Abstract

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

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# The **tabularkv** package

## Abstract

This package adds a key value interface for tabular by the new environment **tabularkv**. Thus the TeX source code looks better by named parameters, especially if package **tabularht** is used.

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# The `telprint` package

## Abstract

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

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# The `thepdfnumber` package

## Abstract

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

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# The **transparent** package

## Abstract

Since version 1.40 pdf<sub>T</sub>E<sub>X</sub> supports several color stacks. This package shows, how a separate color stack can be used for transparency, a property besides color.

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# The `twoopt` package

## Abstract

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

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[2008/08/11 v1.5]	. . . . .	6
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# The `uniquecounter` package

## Abstract

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

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# 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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