



The Treasure Chest

This is a selected list of the packages posted to CTAN (<http://www.ctan.org>) from January 2005 through December 2005, with descriptive text either taken from the announcement or researched, then edited for brevity. Please inform us of any errors.

This installment, like the last, lists entries alphabetically within CTAN directories, rather than by date. We've also omitted some packages which had only minor updates, again for brevity.

Hopefully this column and its companions will help to make CTAN a more accessible resource to the T_EX community. Comments are welcome, as always.

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biblio

- BibBuild** in `biblio/bibtex/utils`
A FileMaker Pro 7 database for managing bibliography entries.
- bibexport** in `biblio/bibtex/utils`
Export entries from a .bib file.
- catalanbib** in `biblio/bibtex/contrib`
BIB_TE_X bibliographic styles for the Catalan language.
- iopart-num** in `biblio/bibtex/contrib`
A BIB_TE_X style providing numeric citations in a Harvard-like format. Intended for use with Institute of Physics (IOP) journals, including *Journal of Physics*.
- perception** in `biblio/bibtex/contrib`
BIB_TE_X style for the journal *Perception*.

dviware

- dvisvgm** in `dviware`
Convert DVI files to the Scalable Vector Graphics format (SVG).

fonts

- aramaic, nabatean** in `fonts/archaic`
Additions to Peter Wilson's collection of fonts for archaic scripts.
- arev** in `fonts`
Virtual fonts and L^AT_EX support files for Arev Sans, a derivation of Bitstream Vera. The primary purpose for using Arev Sans in L^AT_EX is presentations, particularly when using a computer projector.

`biblio/bibtex/utils/BibBuild`

- byzfonts** in `fonts`
Fonts to typeset Byzantine church music.
- fontools** in `fonts/utilities`
Tools to simplify using fonts (especially TrueType/OpenType) with L^AT_EX and `fontinst`.
- fouriernc** in `fonts`
Add-on to the Fourier package using New Century Schoolbook as the base font, in place of Utopia.
- HLaTeX** in `fonts/korean`
Korean fonts.
- lfb** in `fonts/greek`
Greek font, written in METAFONT, with normal and bold variants.
- lucida** in `fonts/metrics/bh`
Update of the T_EX font support files (metrics, virtual fonts, etc.) for the Lucida fonts (originally available from Y&Y, now available again from TUG and PCT_EX).
- mathdesign** in `fonts`
The Math Design project offers free mathematical fonts that fit with existing text fonts, currently supporting Charter, Utopia, and URW Garamond.
- minionpro** in `fonts`
T_EX support for Adobe MinionPro.
- otftofd** in `fonts/utilities`
A script to help with the task of generating an NFSS font description file and a map file from a large collection of OpenType fonts.
- palatinox** in `fonts/truetypemetrics`
T_EX metrics for TrueType versions of Monotype Berling, Linotype Frutiger, and Linotype Palatino.
- wadalab** in `fonts`
Font bundles for the Japanese Wadalab fonts which work with the CJK package.

graphics

- exteps** in `graphics/metapost/contrib/macros`
Include EPS figures into METAPOST figures.
- mathspic-perl** in `graphics/pictex/mathspic/perl`
MathsPIC (Perl) is a development of the earlier MathsPIC (DOS) program; implemented as a Perl script, it is much more portable than the earlier program. MathsPIC parses a plain text input file and generates a plain text output file containing commands for drawing a diagram.
- makeplot** in `graphics/pstricks/contrib/`
Facilitates using Matlab plots in L^AT_EX documents.
- matlab** in `graphics/metapost/contrib/macros`
METAPOST data plotting in Matlab style.
- metauml** in `graphics/metapost/contrib/macros`
MetaUML is a METAPOST library for typesetting UML diagrams.
- pgf** in `graphics`
The T_EX Portable Graphic Format. Compared to version 0.65, version 1.00 is almost a new program.

pst-barcode in `graphics/pstricks/contrib`
Print barcodes.

pst-calendar in `graphics/pstricks/contrib`
A PSTricks-based package for calculating and plotting calendars in the range 2000–2099.

pst-eucl in `graphics/pstricks/contrib`
Euclidean geometry.

pst-labo in `graphics/pstricks/contrib`
Draw chemical objects.

pst-pdf in `graphics/pstricks/contrib`
Simplifies the use of graphics from PSTricks and other PostScript code in PDF documents.

sketch in `graphics`
A small, simple system for producing line drawings of three-dimensional objects and scenes.

tpx in `graphics`
A L^AT_EX-friendly drawing tool for Windows.

zigaretten in `graphics`
Design cigarette pack “covers” that hide the death warnings and the advertising present on most packs. It imitates the original look of packs in the European Union by allowing the placement of warnings (e.g. Caution: inflammable device) in the well-known black frames.

help

uk-tex-faq in `help`
Major English-language FAQ, with information on virtually all T_EX-related topics. Available on the web at <http://www.tex.ac.uk/faq>.

indexing

forindex in `indexing`
Assists with generation and maintenance of index entries.

info

amslatexdoc-vietnamese in
`info/amslatex/vietnamese`
Vietnamese documentation for $\mathcal{A}\mathcal{M}\mathcal{S}$ -L^AT_EX.

lmodern in `info`
The Latin Modern wishlist.

lshort in `info`
“The Not Short Introduction to L^AT_EX 2_ε”, by Tobias Oettker. Available in Bulgarian, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Mongolian, Polish, Portuguese, Russian, Spanish, Slovak, Thai, Ukrainian, and Vietnamese.

virtualfontshowto in `info`
Tutorial on creating and using virtual fonts.

language

HLaTeX in `language/korean`
Typeset Korean documents.

maltese in `language`
Facilitates using non-Latin Maltese characters.

sphyphb in `language/spanish/nonstandard`
Experimental Spanish hyphenation patterns.

macros/

texmuse in `macros`
Professional music typesetting system implemented entirely within T_EX and METAFONT.

macros/generic

abbr in `macros/generic`
Some simple macros to support abbreviations in plain or L^AT_EX.

xlop in `macros/generic`
Calculates and displays mathematical operations.

macros/latex/contrib

aastex in `macros/latex/contrib`
Styles for formatting submissions to journals published by the American Astronomical Society.

beamer in `macros/latex/contrib`
Create slides and presentations for a projector. Version 3.06 can be used with `pgf` 1.00.

biblatex in `macros/latex/contrib`
Allows consistent formatting of Bible citations.

breakurl in `macros/latex/contrib`
An extension to the `hyperref` package that allows `\url`-like links to be broken over lines, when running L^AT_EX and dvips.

bsheaders in `macros/latex/contrib`
Implements chapter headers in sans serif, bounded by lines `\textwidth` wide, both above and below the header itself.

cclicenses in `macros/latex/contrib`
Typeset Creative Commons license logos.

chessfss in `macros/latex/contrib`
A package to handle chess fonts.

classlist in `macros/latex/contrib/oberdiek`
Records loaded classes and stores them in a list.

commath in `macros/latex/contrib`
Provides commands for formatting formulas.

complexity in `macros/latex/contrib`
Defines commands to typeset computational complexity classes such as P , NP , and hundreds of others.

computational-complexity in `macros/latex/contrib`
A class originally written for the journal *Computational Complexity*, but which may also be used for other articles.

- doipubmed** in `macros/latex/contrib`
Provides `\doi`, `\pubmed` and `\citeurl` macros for use in bibliographies.
- dottex** in `macros/latex/contrib`
Create dot graphs within L^AT_EX.
- elpres** in `macros/latex/contrib`
An `article.cls` derivative for creating presentations.
- endheads** in `macros/latex/contrib`
Provides running headers of the form “Notes to pp. xx–yy” for endnotes sections.
- etaremun** in `macros/latex/contrib`
An environment similar to `enumerate` environment, except that labels decrease instead of increase.
- flacards** in `macros/latex/contrib`
Typesets two-sided flashcards.
- flagderiv** in `macros/latex/contrib`
Mathematical derivations using the `flag/flagpole` notation.
- flowfram** in `macros/latex/contrib`
Create text frames for posters, brochures or magazines.
- fonttable** in `macros/latex/contrib`
Print tables of the characters in a font or some example text.
- graphicx-psmin** in `macros/latex/contrib`
An extension of the standard `graphics` bundle that supports including repeated PostScript graphics only once in a PostScript document.
- har2nat** in `macros/latex/contrib`
Redefines harvard citation commands for use with `natbib`.
- harmony** in `macros/latex/contrib`
Typesets harmony symbols in music texts.
- hep** in `macros/latex/contrib`
A relatively thin wrapper package on a variety of packages useful for typesetting high energy physics documents, for HEP authors who just want to write papers without having to worry about which packages to include.
- hepname**s in `macros/latex/contrib`
A set of predefined high energy particle names.
- hepthesis** in `macros/latex/contrib`
A L^AT_EX class for typesetting large academic reports, in particular Ph.D. theses. It was originally developed for typesetting the author’s high energy physics Ph.D. thesis and includes features specifically tailored to such an application.
- hepunits** in `macros/latex/contrib`
A set of units useful in high energy physics applications.
- ifdraft** in `macros/latex/contrib/oberdiek`
Switch for option `draft`.
- lipsum** in `macros/latex/contrib`
Provides 150 paragraphs of Lorem Ipsum dummy text.
- lucidabr** in `macros/latex/contrib/psnfssx`
Update of L^AT_EX macro support files (now maintained by TUG) for the Lucida fonts.
- makecell** in `macros/latex/contrib`
Tabular column heads and multilined cells.
- mcaption** in `macros/latex/contrib`
Puts figure or table captions in the margin.
- nag** in `macros/latex/contrib`
Detects and warns about obsolete commands.
- nddiss** in `macros/latex/contrib`
The University of Notre Dame’s dissertation format.
- outlines** in `macros/latex/contrib`
An environment for outline-style indented lists with freely mixed levels.
- powerdot** in `macros/latex/contrib`
A presentation class for L^AT_EX.
- powerdot-doc-vi** in `macros/latex/contrib/powerdot/contrib`
Vietnamese translation of `powerdot` documentation.
- pseudocode** in `macros/latex/contrib`
Provides an environment `pseudocode` for describing algorithms.
- robustindex** in `macros/latex/contrib`
Uses `\pageref` to make page numbers in index entries more robust.
- sectionbox** in `macros/latex/contrib`
Create fancy boxed ((sub)sub)sections, primarily for posters.
- semionese** in `macros/latex/contrib`
Put special contents only on left-hand pages in a two-sided layout.
- SFS.lco** in `macros/latex/contrib/koma-script-SFS`
KOMA-Script letter class option for Finnish letters.
- sides** in `macros/latex/contrib`
Typeset stage plays.
- stage** in `macros/latex/contrib`
A L^AT_EX class for stage plays.
- stubs** in `macros/latex/contrib`
Prints a line of stubs with contact information at the bottom of the page.
- sudoku** in `macros/latex/contrib`
Typeset sudoku grids.
- symbolindex** in `macros/latex/contrib`
Generate a list of symbols with different subgroups.
- tabularht** in `macros/latex/contrib/oberdiek`
Defines some environments that add a height specification to `tabular` and `array`.
- tabularkv** in `macros/latex/contrib/oberdiek`
Adds a key-value interface to `tabular`.
- talk** in `macros/latex/contrib`
A L^AT_EX class for presentations.
- tamefloats** in `macros/latex/contrib`
An experimental fix for the problem of L^AT_EX floats and `\marginpar` causing misplacement of footnotes or footnote splits.

texmate in **macros/latex/contrib**

Comprehensive chess annotation in L^AT_EX.

thmbox in **macros/latex/contrib**

Present theorems, definitions and similar objects in boxes decorated with frames and various aesthetic features.

vhistory in **macros/latex/contrib**

Simplifies the creation of a history of versions of a document.

volumes in **macros/latex/contrib**

Helps produce separate printed volumes from one L^AT_EX document, as well as one comprehensive version. It suppresses the parts of the table of contents that are not typeset, while counters, definitions, index entries, etc. are kept consistent throughout the input file.

macros/plain**fontch** in **macros/plain/contrib**

Macros for changing fonts and sizes in plain T_EX.

plnfss in **macros/plain**

Limited NFSS support for plain T_EX.

nonfree**garamond** in **nonfree/fonts/urw**

The PostScript font family URW Garamond No. 8 and supporting files.

lettergothic in **nonfree/fonts/urw**

The PostScript font family URW Letter Gothic and supporting files.

support**arxivbib** in **support**

Retrieves abstract entries from arXiv.org and reformats them as BIB_TE_X entries.

de-macro in **support**

Convert your private T_EX macros for publication or communication.

fig2vect in **support**

Converts figures from jFig, XFig and WinFig to METAPOST EPS, PDF, T_EX and SVG.

getfileversion in **support**

Prints version and date of a L^AT_EX class or style file.

hoffset-voffset in **support**

Compute such parameters as `\hoffset`, `\voffset` and `\textheight`.

L_ED in **support**

L_ED (L^AT_EX Editor) is a free environment for rapid (L_A)T_EX document processing.

ltxdiff in **support**

A Windows program to compare tokens in .tex files.

makedtx in **support**

A Perl script to help generate .dtx and .ins files.

pdfbook in **support**

Rearrange pages for booklet printing.

pdffrac in **support**

A Unix-only hack for using psfrag and pdflatex.

runtex in **support**

A Windows program to run T_EX or variants and various utilities if needed.

runtex-src in **support/runtex**

ANSI/POSIX C source code for runtex.

tex2tok in **support**

Convert a T_EX source file into a file containing one line for each token.

word2latex in **support**

The wsW2LTX library is an application programming interface designed to translate a Microsoft Word document to L^AT_EX and converts Word documents up to version 9, which is Word 2000.

WordML2LaTeX in **support**

An XSL stylesheet that transforms a Word document (WordML) into L^AT_EX 2_ε source.

xpdfopen in **support**

The command line programs pdfopen and pdfclose support controlling the X Window System version of Adobe's Acrobat Reader from the command line or from within a (shell) script.

systems**microimp** in **systems/win32**

A gratis (but without source) distribution of MicroPress Inc's MicroIMP L^AT_EX-based word processor.

pdftex in **systems**

An extension of T_EX that can create PDF directly from T_EX source files. It also contains many new features and extensions to T_EX. New stable release 1.30.4.