



The Treasure Chest

This is a list of selected new packages posted to CTAN (<http://ctan.org>) from July 2009 through April 2010, with descriptions based on the announcements and edited for brevity.

Entries are listed alphabetically within CTAN directories. A few entries which the editors subjectively believed to be of especially wide interest or otherwise notable are starred; of course, this is not intended to slight the other contributions.

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

◇ Karl Berry
<http://tug.org/ctan.html>

biblio

biber in **biblio**

BIB_TE_X replacement for **biblatex** users, in Perl.

persian-bib in **biblio/bibtex/contrib**

Persian translations of standard BIB_TE_X styles.

fonts

ccicons in **fonts**

L^AT_EX support for Creative Commons icons.

jablantile in **fonts**

New Metafont font from Don Knuth to implement the modular tiles described by Slavik Jablan.

mathgifg in **fonts**

Text and math L^AT_EX support for Microsoft Georgia and ITC Franklin Gothic.

oldlatin in **fonts**

Computer Modern with “long s” used in old texts.

softmaker-freefont in **fonts**

Support for SoftMaker fonts from freefont.de.

txfontsb in **fonts**

Small caps and oldstyle numerals for **txfonts**, and Greek support through Babel.

zhmetrics in **fonts**

TFM subfonts to support Chinese in 8-bit T_EX.

graphics

drv in **graphics/metapost/contrib/macros**

Drawing derivation trees in MetaPost.

fig4latex in **graphics**

Makefile support for **xfig** graphics exported to L^AT_EX.

biblio/biber

garrigues in **graphics/metapost/contrib/macros**
 Drawing Garrigues’ Easter nomogram.

jflap2tikz in **graphics**

Convert finite automata from JFlap to TikZ.

pgf-umlsd in **graphics/pgf/contrib**

UML sequence diagrams.

pst-am in **graphics/pstricks/contrib**

(De)modulation of radio waves.

pst-abspos in **graphics/pstricks/contrib**

Absolute or relative page positioning.

pst-knot in **graphics/pstricks/contrib**

Drawing knots.

pst-mirror in **graphics/pstricks/contrib**

Three-dimensional objects on a spherical mirror.

pst-node in **graphics/pstricks/contrib**

Drawing nodes and their connections.

pst-platon in **graphics/pstricks/contrib**

Drawing the five Platonic solids in a 3D view.

pst-plot in **graphics/pstricks/contrib**

Drawing functions and data records.

pst-thick in **graphics/pstricks/contrib**

Drawing and filling of very thick lines and curves.

suanpan in **graphics/metapost/contrib/macros**

Drawing Chinese and Japanese abaci.

tikz-3dplot in **graphics/pgf/contrib**

Coordinate transformations for 3D plots.

tikz-qtree in **graphics/pgf/contrib**

Simpler syntax and better layout for trees in TikZ.

tkz-orm in **graphics/pgf/contrib**

Drawing Object-Role Model (ORM) diagrams.

info

apprendis-latex in **index**

French manual for L^AT_EX beginners.

asy-faq/zh-cn in **info**

Chinese translation of the Asymptote FAQ.

asymptote-by-example-zh-cn in **info**

An Asymptote tutorial in Simplified Chinese.

asymptote-manual-zh-cn in **info**

Chinese translation of the Asymptote manual.

context-notes-zh-cn in **info**

ConT_EXt tutorial in Chinese.

context-top-ten in **info**

Most common ConT_EXt commands.

ctex-faq in **info**

L^AT_EX FAQ for Chinese T_EX users.

latexheat-es_MX in **info**

Spanish translation of **latexheat**.

lshort-persian in **info**

Persian translation of **lshort**.

memdesign in **info**

A few notes on book design, by Peter Wilson.

Presentations_de in **info/examples**

Examples from the book *Präsentationen mit L^AT_EX*.

language

bardi in **language**
Hyphenation and language support for Bardi (BCJ).

ckjpunct in **language/chinese**
Adjust location and kerning of CJK punctuation.

ctex in **language/chinese**
Classes and macros for Chinese typesetting.

kmrhyph in **language/hyphenation**
Hyphenation patterns for Kurmanji (T1-encoded).

turkmen in **language**
Turkmen definitions for Babel.

macros/context

context-ruby in **macros/context/contrib**
W3C's "ruby", short runs by base text.

macros/latex/contrib

***background** in **macros/latex/contrib**
Background material on pages of a document.

bigints in **macros/latex/contrib**
Producing big integrals.

boolexpr in **macros/latex/contrib**
Expandable evaluation of boolean expressions.

bracketkey in **macros/latex/contrib**
Bracket keys for genealogies.

cachepic in **macros/latex/contrib**
Lua script and package to convert document fragments to graphics.

sensor in **macros/latex/contrib**
Support for redacting material.

changelayout in **macros/latex/contrib**
Change layout of individual pages.

combelow in **macros/latex/contrib**
Typeset letters with a comma-below accent.

combinedgraphics in **macros/latex/contrib**
Extended options for including EPS or PDF.

cookybooky in **macros/latex/contrib**
Typeset recipes.

currfile in **macros/latex/contrib**
Macros for file name and path of input files.

dashundergaps in **macros/latex/contrib**
Underline some specified, possibly invisible, text.

docmute in **macros/latex/contrib**
Use standalone documents with `\input` or `\include`.

dox in **macros/latex/contrib**
Extensions to the doc package.

elbioimp in **macros/latex/contrib**
Journal of Electrical Bioimpedance support.

engtlc in **macros/latex/contrib**
Telecommunications engineering support.

eqexam in **macros/latex/contrib**
Exam generation, with additional features for A_εB.

erdc in **macros/latex/contrib**
Technical information reports of the US Army Engineer Research and Development Center.

estcpmm in **macros/latex/contrib**
Munitions management reports.

***etextools** in **macros/latex/contrib**
 ϵ -T_EX tools for L^AT_EX.

fancypar in **macros/latex/contrib**
Decorative styles for individual text paragraphs.

fc_arith in **macros/latex/contrib**
Create an arithmetic flash card.

filehook in **macros/latex/contrib**
Hooks for input files.

flashmovie in **macros/latex/contrib**
Embed flash movies in PDF output.

ftnextra in **macros/latex/contrib**
Make `\footnote` work in `\caption`, `\chapter`, etc.

germkorr in **macros/latex/contrib**
Change kerning for German quotation marks.

hvinde in **macros/latex/contrib**
Facilitate index typesetting.

idxlayout in **macros/latex/contrib**
Key-value interface to configure index layout, supporting KOMA-script and Memoir.

iftex in **macros/latex/contrib**
Am I running under pdfT_EX or X_qT_EX or LuaT_EX?

keycommand in **macros/latex/contrib**
Natural way to define commands with optional keys.

knitting in **macros/latex/contrib**
Fonts and (L^A)T_EX macros for knitting charts.

knittingpattern in **macros/latex/contrib**
Formatting knitting patterns.

librarian in **macros/latex/contrib**
Extract material from .bib files, for typesetting in plain, L^AT_EX, and ConT_EXt.

listings-ext in **macros/latex/contrib**
Shell script and macros to input parts of programs into a document.

ltxnew in **macros/latex/contrib**
Generalized `\new`, `\renew`, and `\provide` prefixes.

mailmerge in **macros/latex/contrib**
Instantiate a template from successive actual texts.

mdframed in **macros/latex/contrib**
Automatically split framed environments.

minted in **macros/latex/contrib**
Highlight L^AT_EX sources using Pygments.

mylatexformat in **macros/latex/contrib**
Construct .fmt for fast loading from any preamble.

newverbs in **macros/latex/contrib**
`\verb` variants that can add T_EX code before and after the verbatim text.

ocgtools in **macros/latex/contrib**
Manipulate OCG layers in PDF, that is, hide and reveal material via links or buttons.

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- macros/latex/contrib**
- onrannual** in **macros/latex/contrib**
Office of Naval Research report class.
 - ot-tableau** in **macros/latex/contrib**
Produce optimality theory tableaux.
 - pagerange** in **macros/latex/contrib**
Expand page ranges.
 - plantslabels** in **macros/latex/contrib**
Labels for plants.
 - popupmenus** in **macros/latex/contrib**
Create popup menus via links or buttons.
 - properties** in **macros/latex/contrib**
Load (key,value) properties from a file.
 - rangen** in **macros/latex/contrib**
Random integers, rational, and decimal numbers.
 - renditions** in **macros/latex/contrib**
Classes of comments environments.
 - seuthesis** in **macros/latex/contrib**
Theses at the Southeast University, Nanjing, China.
 - skeyval** in **macros/latex/contrib**
Extensions to `xkeyval`.
 - soton** in **macros/latex/contrib**
Beamer-friendly University of Southampton palette.
 - spreadtab** in **macros/latex/contrib**
Spreadsheet features for \LaTeX table environments.
 - * **sverbatim** in **macros/latex/contrib**
Allow line breaks within `\verb` and `verbatim`.
 - standalone** in **macros/latex/contrib**
Compile \TeX pictures or code by themselves or included in a main document.
 - subsupscripts** in **macros/latex/contrib**
Additional features for superscripts and subscripts.
 - tablenotes** in **macros/latex/contrib**
Notes for tables, à la footnotes and endnotes.
 - tabularborder** in **macros/latex/contrib**
Make `\hline` have the width of `tabular` text, taking account of the outer `\tabcolsep`.
 - tex-label** in **macros/latex/contrib**
Label (classify) parts of a document for proofs.
 - texlikechaps** in **macros/latex/contrib/misc**
Customizable Texinfo-like chapter headers.
 - threeparttablex** in **macros/latex/contrib**
Support table notes in `longtable`.
 - thumby** in **macros/latex/contrib**
Creating thumb indexes.
 - titlepic** in **macros/latex/contrib**
Display a picture on the title page.
 - trimspaces** in **macros/latex/contrib**
Remove spaces from token lists and macros.
 - widetable** in **macros/latex/contrib**
Typeset tables of specified width.
 - * **xpackages** in **macros/latex/contrib**
High-level parts of \LaTeX 3 — still experimental.
 - xypdf** in **macros/latex/contrib**
Improve PDF output of `xypic`.
 - ydoc** in **macros/latex/contrib**
An alternative for documenting \LaTeX packages.
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- macros/latex/exptl**
- cfr-lm** in **macros/latex/exptl**
Enhanced support for GUST's Latin Modern fonts.
 - keys3** in **macros/latex/exptl**
Key management for \LaTeX 3.
-
- macros/plain**
- font-change** in **macros/plain/contrib**
Change text and math fonts in plain \TeX with one command; supports all major free font families.
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- macros/xetex**
- itrans** in **macros/xetex/generic**
ITRANS mappings for $X_{\text{q}}\TeX$ for Devanagari and Kannada.
 - xecjk** in **macros/xetex/latex**
Typesetting CJK documents in $X_{\text{q}}\TeX$.
 - xeindex** in **macros/xetex/generic**
Automatically index specified strings in $X_{\text{q}}\LaTeX$.
 - xesearch** in **macros/xetex/generic**
Manipulate and apply macros to (sub)strings.
 - zhspacing** in **macros/xetex/generic**
Simpler typesetting of CJK documents in $X_{\text{q}}\TeX$.
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- support**
- lua-alt-getopt** in **support/luatex**
Lua implementation of GNU *getopt-long*.
 - chklref** in **support**
Report unused labels in \LaTeX .
 - csv2latex** in **support**
Ruby script + Applescript for copying spreadsheet cells to \LaTeX .
 - installfont** in **support**
Shell script for installing a Type 1 font family.
 - latex-make** in **support**
Easy compilation via GNU make with automatic dependency tracking and `xfig` support.
 - match_parens** in **support**
Perl script for general parenthesis balancing.
 - * **pdfjam** in **support**
Shell script interface to `pdftops`: concatenating PDF files, selecting pages, *n*-up formatting, etc.
 - rake4latex** in **support**
A Ruby script to compile \LaTeX projects.
 - ratexdb** in **support**
Preprocessor in Ruby to query a database and create \LaTeX ; compatible with `latexdb`.
 - style_showcase** in **support**
Build web page to compare \LaTeX styles.
 - texdiff** in **support**
Merge two \LaTeX documents, for change tracking.