



The Treasure Chest

Special note for this installment: please see Barbara Beeton's editorial column for some CTAN news and action recommendations.

The following is a list of selected new packages posted to CTAN (<http://ctan.org>) from October 2014 through March 2015, with descriptions based on the announcements and edited for extreme brevity.

Entries are listed alphabetically within CTAN directories. A few entries which the editors subjectively believe 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

biblio

bibfilex in **biblio**
GUI bibliography manager written in Free Pascal.

fonts

fontmfizz in **fonts**
Access MFizz font icons in L^AT_EX.

***newtxsf** in **fonts**
Sans serif math fonts based on **newtxmath** and STIX.

graphics

ticollege in **graphics/pgf/contrib**
Draw scientific calculator keys in TikZ.

tikz-dimline in **graphics/pgf/contrib**
Draw technical dimension lines in TikZ.

tikz-palattice in **graphics/pgf/contrib**
Draw particle accelerator lattices in TikZ.

tipfr in **graphics/pgf/contrib**
Output menu items, screenshots, and calculator keys in TikZ.

info

latexcheat-de in **info/latexcheat**
German adaptation of the English L^AT_EX cheat sheet.

macros

musixtnt in **macros**
MusixT_EX extension library enabling transformations of the effect of notes commands.

macros/generic

apnum in **macros/generic**
Arbitrary-precision numbers in pure T_EX.

macros/latex

****latex/base**
latex/doc
latex/required/cyrillic
latex/required/graphics
latex/required/tools in **macros/latex**
A major update to L^AT_EX 2_ε, by default incorporating changes previously included only by explicitly loading the **fixltx2e** package. A new **latexrelease** package and other mechanisms allow for controlling this. The included *L^AT_EX News #22* has details, and additional articles are expected for the next *TUGboat*. This L^AT_EX release will be included in T_EX Live 2015 and its pretests, and not distributed (in T_EX Live) before that.

The **psnfss** and **babel** packages, though also required parts of L^AT_EX, are maintained separately from base L^AT_EX, and thus are not changed in this update (and they still work, too).

The announcement for CTAN: lists.dante.de/pipermail/ctan-ann/2015-March/008366.html.

macros/latex/contrib

avremu in **macros/latex/contrib**
Microprocessor simulation in pure L^AT_EX.

bankstatement in **macros/latex/contrib**
Generate bank statements from CSV data.

basicarith in **macros/latex/contrib**
Typeset textbook-style basic arithmetic.

begingreek in **macros/latex/contrib**
Typeset Greek in pdf_lat_ex.

bondgraphs in **macros/latex/contrib**
Draw bond graphs using TikZ.

bookcover in **macros/latex/contrib**
Typeset book covers and dust jackets.

boxedminipage2e in **macros/latex/contrib**
Framed minipages of a specified total width.

calculation in **macros/latex/contrib**
Typeset reasoned calculations (calculational proofs).

cryptocode in **macros/latex/contrib**
Typeset pseudocode, protocols, game-based proofs and black-box reductions in cryptography.

cyber in **macros/latex/contrib**
Annotate compliance with cybersecurity requirements.

cybercic in **macros/latex/contrib**
“Controls in Contents” for the **cyber** package.

datetime2 in **macros/latex/contrib**
Formatting dates, times, etc.

datetime2-* in **macros/latex/contrib**
Language modules for **datetime2**.

doclicense in **macros/latex/contrib**
Putting documents under Creative Commons licenses.

macros/latex/contrib/doclicense

- ebproof** in `macros/latex/contrib`
Typeset formal proofs in the style of sequent calculus.
- ekaia** in `macros/latex/contrib`
Format for the Basque scientific journal *Ekaia*.
- elzcards** in `macros/latex/contrib`
Typeset business cards, index cards, flash cards.
- etdipa** in `macros/latex/contrib`
Lightweight template for scientific documents.
- europasscv** in `macros/latex/contrib`
Support for the 2013 Europass CV standard.
- fancyslides** in `macros/latex/contrib`
Custom presentation class built on beamer.
- *fcolumn** in `macros/latex/contrib`
New column type `f` for typesetting financial tables from raw data.
- fei** in `macros/latex/contrib`
Support for the FEI University Center (Brazil) style.
- fixocgx** in `macros/latex/contrib`
Support `ocgx` in all known engines.
- gender** in `macros/latex/contrib`
Promote gender neutrality in gendered languages.
- genealogytree** in `macros/latex/contrib`
Pedigree and genealogical tree diagrams.
- glossaries-*** in `macros/latex/contrib`
Language modules for `glossaries`.
- gsemthesis** in `macros/latex/contrib`
Geneva School of Economics and Management PhD thesis format.
- havannah** in `macros/latex/contrib`
Board diagrams for the games Havannah and Hex.
- indextools** in `macros/latex/contrib`
Fixed `imakeidx` with `bidi` support.
- jslectureplanner** in `macros/latex/contrib`
Generate and manage university course material.
- jumplines** in `macros/latex/contrib`
Newspaper-style teasers with later continuations.
- leadsheets** in `macros/latex/contrib`
Typeset leadsheets and songbooks.
- ndsu-thesis** in `macros/latex/contrib`
North Dakota State University disquisition class.
- prftree** in `macros/latex/contrib`
Typeset natural deduction proofs.
- romanbarpagenumber** in `macros/latex/contrib`
Typesetting roman page numbers with bars.
- sduthesis** in `macros/latex/contrib`
Thesis template for Shandong University.
- sesamauel** in `macros/latex/contrib`
Support for Sesamath Society books and papers.
- turabian-formatting** in `macros/latex/contrib`
Chicago-style formatting based on Turabian's work.
- urcls** in `macros/latex/contrib`
Support for University of Regensburg styles.
- versonotes** in `macros/latex/contrib`
Display brief notes on verso pages.
- *xcolor-solarized** in `macros/latex/contrib`
Defines the 16 colors from Schoonover's solarized palette.
- xprintlen** in `macros/latex/contrib`
Print \TeX lengths in a variety of units.
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- macros/latex/contrib/babel-contrib**
- babel-bosnian** in `m/1/c/babel-contrib`
Babel support for Bosnian.
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- macros/latex/contrib/beamer-contrib**
- epyt** in `m/1/c/beamer-contrib`
Simple and clean theme for beamer.
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- macros/latex/contrib/biblatex-contrib**
- citeall** in `m/1/c/biblatex-contrib`
Cite all entries of a `bbl` file created with $\text{BIB}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$.
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- macros/plain**
- epsf-dvipdfmx** in `macros/plain/contrib`
Supplement for `epsf.tex` when using `dvipdfmx` with non-origin EPS images.
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- macros/xetex**
- interchar** in `macros/xetex/latex`
Managing character class schemes in $\text{X}\mathcal{E}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$.
- *xespotcolor** in `macros/xetex/latex`
Spot colors in $\text{X}\mathcal{E}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$.
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- support**
- crossrefware** in `support`
Scripts for working with `crossref.org`.
- ctan_chk** in `support`
`gawk` script for verification of CTAN uploads.
- epspdf-setup** in `support`
Standalone `epspdf` Windows executable.
- hook-pre-commit-pkg** in `support`
Pre-commit `git` hook to check $\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ syntax.
- lug** in `support`
Shell script to update $\mathcal{T}\mathcal{E}\mathcal{X}$ Local User Group web pages from the LUG database.
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- web**
- yacco2** in `web`
LR(1) compiler-compiler that emits literate grammars.