



The Treasure Chest

This is a selection of the new packages posted to CTAN (ctan.org) from March–July 2017, with descriptions based on the announcements and edited for extreme brevity.

Entries are listed alphabetically within CTAN directories. More information about any package can be found at ctan.org/pkg/pkgname. 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. See also ctan.org/topic. Comments are welcome, as always.

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biblio

l**tb2bib** in **biblio**
Convert `amsrefs .ltb` to `BIBTEX .bib`.

dviware

d**viinfox** in **dviware**
Dump information about DVI and XDV files.

fonts

al**golrevived** in **fonts**
Revival of Frutiger’s font designed in 1963 for code blocks in the Algor manual.

al**kalami** in **fonts**
Font from SIL for Arabic-based writing systems in Nigeria and Niger.

j**fmutil** in **fonts/utilities**
Process JFM and VF files used in (u)p_TE_X.

sh**obhika** in **fonts**
OpenType Devanagari font designed for scholars.

graphics

l**adder** in **graphics/pgf/contrib**
Simple ladder diagrams in *TikZ*.

m**ptrees** in **graphics/metapost/contrib/macros**
Probability trees in MetaPost.

p**st-geometrictools** in **graphics/pstricks/contrib**
Protractor, ruler, compass, etc. symbols in PSTricks.

p**st-poker** in **graphics/pstricks/contrib**
Customizable poker cards in PSTricks.

p**st-rputover** in **graphics/pstricks/contrib**
Place text over PSTricks objects without obscuring background colors.

graphics/pstricks/pst-spinner

p**st-spinner** in **graphics/pstricks**
Drawing fidget spinner toys in PSTricks.

p**st-vehicle** in **graphics/pstricks/contrib**
Rolling vehicles on mathematically-defined curves.

s**pectralsequences** in **graphics/pgf/contrib**
Spectral sequence diagrams in *TikZ*.

t**ikzcodeblocks** in **graphics/pgf/contrib**
Code blocks like `scratch`, `NEPO`, and `PXT` in *TikZ*.

info

***biblatex-cheatsheet** in **info**
Cheat sheet for `BIBTEX`/`Biber`.

s**tudies-lm** in **info/german**
Interactive `LATEX` course material, in German.

language/japanese

b**xjaprnind** in **language/japanese/BX**
Support Japanese typesetting conventions for open parentheses.

p**xu**font in **language/japanese**
Emulate non-Unicode Japanese fonts using Unicode fonts.

macros/generic

h**list** in **macros/generic**
Horizontal and columned lists.

i**fp**tex in **macros/generic**
Check if engine is p_TE_X or a derivative.

macros/latex/contrib

a**ctuarialsymbol** in **macros/latex/contrib**
Actuarial symbols for life contingencies and financial mathematics.

b**iochemistry-colors** in **macros/latex/contrib**
Define the standard colors used in biochemistry.

b**redzenie** in **macros/latex/contrib**
Polish variant for “`lorem ipsum`” sample text.

b**xcalc** in **macros/latex/contrib**
Extends `calc` for user-defined units and usability in more contexts.

b**xorigcapt** in **macros/latex/contrib**
Retain document class’s names `\chaptername`, `\today`, etc., overriding `babel`.

c**hilddoc** in **macros/latex/contrib**
Compile `\include` files directly.

c**je** in **macros/latex/contrib**
Support for the *Canadian Journal of Economics*.

c**orrectmathalign** in **macros/latex/contrib**
Better horizontal spacing for some math expressions in alignments.

c**urrency** in **macros/latex/contrib**
Format currencies consistently, using `siunitx`.

d**rafftfigure** in **macros/latex/contrib**
Replace figures with a (customizable) white box.

easyformat in `macros/latex/contrib`
Markup italic, bold, bold italic with underscores in source.

gotoh in `macros/latex/contrib`
Implementation of the Gotoh sequence alignment algorithm (see article in this issue).

invoice2 in `macros/latex/contrib`
Intelligent invoices with L^AT_EX3.

knowledge in `macros/latex/contrib`
Display, link, index concepts throughout a document.

latex-mr in `macros/latex/contrib`
Guide to L^AT_EX and Polyglossia for Marathi and other Indian languages.

lmi in `macros/latex/contrib`
Official class for *Lecture Notes in Informatics*.

lucida-otf in `macros/latex/contrib`
Support for the OpenType Lucida Bright fonts, including math (tug.org/lucida).

marginfit in `macros/latex/contrib`
Fix margin notes on the wrong side or off the bottom of the page.

mathpunctspace in `macros/latex/contrib`
Control space after comma and semicolon in math.

mcexam in `macros/latex/contrib`
Create randomized multiple choice exams.

minidocument in `macros/latex/contrib`
Subdocuments inside a L^AT_EX document.

modular in `macros/latex/contrib`
Relative sectioning commands.

numameru in `macros/latex/contrib`
Spelled-out numbers in Russian.

pdfpreview in `macros/latex/contrib`
Annotate PDF files with marginal notes.

poetry in `macros/latex/contrib`
Facilities for typesetting poetry and poetical structure.

rutitlepage in `macros/latex/contrib`
Title pages for Radboud University.

scratch in `macros/latex/contrib`
Draw programs like Scratch (scratch.mit.edu).

scratchx in `macros/latex/contrib`
Include Scratch programs in documents.

sesstime in `macros/latex/contrib`
Add timing marks to lecture notes, and other time management tools.

thaienum in `macros/latex/contrib`
Thai numerals or characters as `enumerate` labels.

typoid in `macros/latex/contrib`
Measure alphabet lengths, em and ex values.

uhhassignment in `macros/latex/contrib`
Typeset homework assignments.

xsim in `macros/latex/contrib`
Improved exercise sheets, succeeding `exsheets`.

zebra-goodies in `macros/latex/contrib`
Handy macros for paper writing.

macros/latex/contrib/babel-contrib

azerbaijani in `m/l/c/babel-contrib`
Babel style for Azerbaijani.

macros/latex/contrib/beamer-contrib/themes

beamerthemetamu in `m/l/c/beamer-contrib/themes`
Beamer theme for Texas A&M University.

macros/latex/contrib/biblatex-contrib

biblatex-enc in `m/l/c/biblatex-contrib`
Style for École nationale des chartes (Paris).

biblatex-oxref in `m/l/c/biblatex-contrib`
Styles inspired by the *Oxford Guide to Style*.

biblatex-shortfields in `m/l/c/biblatex-contrib`
Use fields `shortseries` and `shortjournal` if defined; compatible with `biblatex-claves`.

macros/luatex

combofont in `macros/luatex/latex`
Experimental package to add NFSS declarations to combined fonts.

luamesh in `macros/luatex/latex`
Compute and draw 2D Delaunay triangulations.

luapackageloader in `macros/luatex/generic`
Load packages from the standard Lua package.
`path` and `package.cpath`.



Cartoon by John Atkinson (<http://wronghands1.com>).