The Treasure Chest

This is a selection of the new packages posted to CTAN (`ctan.org`) from November 2016–March 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 TEX community. See also `ctan.org/topic`. Comments are welcome, as always.

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fonts

arimo in `fonts`
Arimo fonts (Arial-compatible), with LATEX support.
arphic-ttf in `fonts`
Chinese Arphic fonts in TrueType format.
* baskervillef in `fonts`
Design similar to Fry's Baskerville, with math support. [See article in this issue of *TUGboat*.]
gandhi in `fonts`
Gandhi fonts, with LATEX support.
* gofonts in `fonts`
Go fonts designed by Bigelow&Holmes for the Go language project. [See item in this issue's editorial.]
missaali in `fonts`
Late medieval OpenType textura font.
montserrat in `fonts`
Montserrat fonts, with LATEX support.
paduak in `fonts`
TrueType font supporting the Myanmar script.
ptex-fontmaps in `fonts`
Font maps and configuration for CJK fonts and (u)ptex, superseding `jfontmaps`.
tinos in `fonts`
Tinos fonts (compatible with Times New Roman), with LATEX support.
txuprcal in `fonts`
Upright calligraphic based on `txfonts`.
variablelm in `fonts`
Font definitions for variable Latin Modern fonts.

graphics

awesomebox in `graphics`
Add admonition blocks using FontAwesome icons.
callouts in `graphics/pgf/contrib`
Simple annotations and notes inside a TikZ picture.
karnaughmap in `graphics/pgf/contrib`
Karnaugh maps in TikZ, with up to six variables and implicants.
pst-shell in `graphics/pstricks/contrib`
Seashells in 3D using PSTricks.
scsnowman in `graphics/pgf/contrib`
Snowman variants in TikZ.
stanli in `graphics/pgf/contrib`
Structural analysis library for TikZ.
tikz-kalendar in `graphics/pgf/contrib`
Typeset calendars with TikZ.
tikzpeople in `graphics/pgf/contrib`
People-shaped nodes, such as 'chef', for TikZ.

info

* docsurvey in `info`
Survey of LATEX documentation. [See article in this issue of *TUGboat*.]
forest-quickstart in `info`
Introduction to `forest`, for linguistic trees.
mendex-doc in `info`
Mendex index processor manual.
platexcheat in `info`
Japanese translation of Winston Chang's LATEX cheat sheet, with additions.
* undergradmath in `info`
Cheat sheet for writing math in LATEX.

language/japanese

jlreq in `language/japanese`
Document class supporting Japanese text layout requirements.

macros/latex

See also LATEX news items in this issue of *TUGboat*, or `latex-project.org/news`.

latexrelease,... in `macros/latex/base`
Use new TU encoding by default in XƎLATEX and LuaLATEX, instead of OT1, among other changes and fixes.
l3kernel,... in `macros/latex/contrib`
LATEX3 packages now support (u)pTEX, among much other work.

macros/latex/contrib

apxproof in `macros/latex/contrib`
Defer proofs to an appendix.
conv-xkv in `macros/latex/contrib`
Support alternative key/value syntaxes.
css-colors in `macros/latex/contrib`
Define the 143 named web-safe colors.

delimset in macros/latex/contrib
  Declare sets of delimiters with adjustable sizes.

dtxdescribe in macros/latex/contrib
  Additional object types in dtx files.

eqnalign in macros/latex/contrib
  Make the eqnarray environment behave like align.

fgruler in macros/latex/contrib
  Rulers on the page foreground or within text.

fnspe in macros/latex/contrib
  Math notation macros and shortcuts, developed for FNSPE CTU in Prague.

footmisx in macros/latex/contrib
  footmisc with support for hyperref.

grayhints in macros/latex/contrib
  Initial text in PDF form fields, via JavaScript.

gtrlib-largetrees in macros/latex/contrib
  Library for genealogytree, aimed at large trees.

halloweenmath in macros/latex/contrib
  Math symbols based on traditional Halloween iconography (pumpkins, witches, etc.).

iscram in macros/latex/contrib
  Class for ISCRAM articles (International Conference on Information Systems for Crisis Response and Management).

keyfloat in macros/latex/contrib
  Key/value interface for generating (sub)floats. [See article in this issue.]

lion-msc in macros/latex/contrib
  Class for theses at the Leiden Instition of Physics.

*lwarp in macros/latex/contrib
  Convert LaTeX to HTML5. [See article in this issue.]

mpostinl in macros/latex/contrib
  Embed MetaPost figures in a LaTeX 2ε document.

mucproc in macros/latex/contrib
  Class for "Mensch und Computer" conference contributions.

numspell in macros/latex/contrib
  Spelling cardinal and ordinal numbers in several languages.

oplotsymbl in macros/latex/contrib
  Unusual symbols used in scientific plots, etc.

pxtatescale in macros/latex/contrib
  Graphics driver support for pTeX vertical direction scaling.

pythonhighlight in macros/latex/contrib
  Highlighting Python code, based on listings.

soup in macros/latex/contrib
  Generate alphabet soup (word search) puzzles.

studenthandouts in macros/latex/contrib
  Manage and style student handout projects.

wtref in macros/latex/contrib
  Namespaces and scopes for LaTeX cross references.

yaletter in macros/latex/contrib
  Flexible macros for letters, envelopes, label sheets.

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macros/latex/contrib/biblatex-contrib

biblatex-archaeology in m/l/c/biblatex-contrib
  Support for German humanities, especially the German Archaeological Institute.

biblatex-arthistory-bonn in m/l/c/biblatex-contrib
  Support for art historians.

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macros/luatex/latex

luahyphenrules in macros/luatex/latex
  Loading patterns in lualatex independent of babel.

novel in macros/luatex/latex
  Class for authors of original fiction, particularly for print-on-demand.

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macros/xetex/latex

simple-resume-cv in macros/xetex/latex
  Simple resume/CV template for XeLaTeX.

simple-thesis-dissertation in macros/xetex/latex
  Simple thesis/dissertation template for XeLaTeX.

unicode-bidi in macros/xetex/latex
  Mixing RTL and non-RTL without markup.

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support

fribidixetex in support
  XeTeX preprocessor for supporting the Unicode bidirectional algorithm.

gladtex in support
  Python program to enable use of LaTeX math in HTML.

tlaunch in support
  Windows GUI to run networked TeX Live.