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.

\begin{itemize}
  \item Karl Berry
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\end{itemize}

\section*{fonts}

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

\section*{graphics}

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

\section*{info}

\begin{itemize}
  \item \texttt{*docsurvey} in info
    Survey of \LaTeX{} documentation. \[\text{[See article in this issue of \textit{TUGboat}.]}\]
  \item \texttt{forest-quickstart} in info
    Introduction to \texttt{forest}, for linguistic trees.
  \item \texttt{mendex-doc} in info
    Mendex index processor manual.
  \item \texttt{platexcheat} in info
    Japanese translation of Winston Chang’s \LaTeX{} cheat sheet, with additions.
  \item \texttt{*undergradmath} in info
    Cheat sheet for writing math in \LaTeX{}.
\end{itemize}

\section*{language/japanese}

\begin{itemize}
  \item \texttt{jlreq} in language/japanese
    Document class supporting Japanese text layout requirements.
\end{itemize}

\section*{macros/latex}

See also \LaTeX{} news items in this issue of \textit{TUGboat}, or latex-project.org/news.

\begin{itemize}
  \item \texttt{latexrelease,...} in macros/latex/base
    Use new TU encoding by default in Xe\TeX{} and Lua\TeX{}, instead of OT1, among other changes and fixes.
  \item \texttt{l3kernel,...} in macros/latex/contrib
    \LaTeX{}3 packages now support (u)p\TeX{}, among much other work.
\end{itemize}

\section*{macros/latex/contrib}

\begin{itemize}
  \item \texttt{apxproof} in macros/latex/contrib
    Defer proofs to an appendix.
  \item \texttt{conv-kv} in macros/latex/contrib
    Support alternative key/value syntaxes.
  \item \texttt{css-colors} in macros/latex/contrib
    Define the 143 named web-safe colors.
\end{itemize}
 delimset in macros/latex/contrib  
 Declare sets of delimiters with adjustable sizes.

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

equalign 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.

footmisc 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 Institution of Physics.

*lwarp in macros/latex/contrib  
 Convert \LaTeX{} to HTML 5. [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.

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

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

pxtatescale in macros/latex/contrib  
 Graphics driver support for \TeX{} 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 \TeX{} cross references.

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

macros/latex/contrib/biblatex-contrib  

biblatex-archaeology in m/1/c/biblatex-contrib  
 Support for German humanities, especially the German Archaeological Institute.

biblatex-arthistory-bonn in m/1/c/biblatex-contrib  
 Support for art historians.

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.

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.

support  

fribidixetex in support  
 \XeLaTeX{} 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.

m/1/c/biblatex-contrib/biblatex-archaeology