The Treasure Chest

This is a selection of the new packages posted to CTAN (ctan.org) from October 2017–April 2018, 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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biblio

gbt7714 in biblio/bibtex/contrib
    Support for the Chinese bibliography standard GB/T 7714-2015.

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fonts

cmsrb in fonts
    Computer Modern for Serbian and Macedonian.
fontawesome5 in fonts
    Support for Font Awesome 5.
∗ gfsneohellenicmath in fonts
    Hellenic-style math font supporting many languages.
morisawa in fonts
    Selection of five standard Japanese fonts for pLATEX with dvips.
∗ plex in fonts
    TEX support for the IBM Plex typeface family.
plex-otf in fonts
    (Lua,XƎ)TEX support for Plex as system fonts.
∗ stix2-otf in fonts
    OpenType Unicode STIX Two fonts.
∗ stix2-type1 in fonts
    STIX Two in Type 1 format.

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graphics

adigraph in graphics/pgf/contrib
    Augmenting directed graphs.
graph35 in graphics
    Draw keys and screen items of Casio calculators.
pgfornament-han in graphics/pgf/contrib
    Traditional Chinese motifs and patterns for PGF.

graphics/pixelart

pixelart in graphics
    TikZ package for single-color pixel-art pictures.
pst-antiprism in graphics/pstricks/contrib
    An antiprism in PSTricks.
∗ pst-calculate in graphics/pstricks/contrib
    Floating point support in LATEX, using expl3.
pst-dart in graphics/pstricks/contrib
    Dart boards with PSTricks.
structmech in graphics/pgf/contrib
    TikZ support for structural mechanics drawings.
tikz-feynhand in graphics/pgf/contrib
    Feynman diagrams with TikZ.
tikz-karnaugh in graphics/pgf/contrib
    PGF package for Karnaugh maps supporting many variables.
tikz-ladder in graphics/pgf/contrib
    Ladder diagrams for the PLC LD language.
tikz-layers in graphics/pgf/contrib
    Provide more graphics layers for TikZ.
tikz-relay in graphics/pgf/contrib
    Electrical diagrams with TikZ.
tikz-sfc in graphics/pgf/contrib
    Symbol collection for PLC programming sequential function chart (SFC) diagrams in TikZ.

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info

guide-latex-fr in info
    Introduction to LATEX written in French.
latex-via-exemplos in info
    LATEX course written in Brazilian Portuguese.
∗ short-math-guide in info
    Guide to using amsmath and related packages.

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language/thai

thaispec in language/thai
    Thai-language typesetting in XƎLATEX.

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macros/latex/contrib

ascmac in macros/latex/contrib
    Box and picture macros with Japanese vertical writing support.
authorarchive in macros/latex/contrib
    Add self-archiving information to scientific papers.
auto-pst-pdf-lua in macros/latex/contrib
    Using LuaLATEX together with PostScript code.
bxtexlogo in macros/latex/contrib
    Additional TEX-family logos and abbreviations.
cascade in macros/latex/contrib
    Brace constructions for math demonstrations.
chemsec in macros/latex/contrib
    Automated creation of numeric entity labels.
colophon in macros/latex/contrib
    Produce a colophon.
crossreftools in macros/latex/contrib
    Expandable extraction of cleveref data.
duckuments in macros/latex/contrib
    Create duckified dummy content.

eqnnumwarn in macros/latex/contrib
    Warn about displaced equation numbers.
exercisebank in macros/latex/contrib
    Creating, managing, reusing exercises.
fancyhandout in macros/latex/contrib
    Produce nice-looking handouts.
fduthesis in macros/latex/contrib
    Thesis template for Fudan University.
footnotehyper in macros/latex/contrib
    Partial hyperref support for the footnote package.
gentombow in macros/latex/contrib
    Generate Japanese-style crop marks.
graphicxpsd in macros/latex/contrib
    Adobe Photoshop Data (PSD) support for graphicx.
gridslides in macros/latex/contrib
    Free form slides with blocks placed on a grid.
handin in macros/latex/contrib
    Lightweight template for problem sets.
hecthese in macros/latex/contrib
    Thesis class for HEC Montréal.
hulipsum in macros/latex/contrib
    Hungarian dummy text.
intopdf in macros/latex/contrib
    Embed non-PDF files in PDF with hyperlinks.
isopt in macros/latex/contrib
    Print dimension with user-defined space between
    number and unit.
jkmath in macros/latex/contrib
    Semantic markup macros for math.
labelschanged in macros/latex/contrib
    Find labels causing endless "may have changed"
    warnings.
lccaps in macros/latex/contrib
    Lowercased (spaced) small capitals.
llncsconf in macros/latex/contrib
    Extending the Springer llncs class.
mathfam256 in macros/latex/contrib
    256 math families for (u)pLaTeX and Lamed.
mathfixs in macros/latex/contrib
    Spacing for fractions and roots, bold symbols, etc.
modernposter in macros/latex/contrib
    Modern LaTeX poster class
nicematrix in macros/latex/contrib
    Matrices with continuous dotted lines.
nidanfloat in macros/latex/contrib
    Support for [b] placement for full-width float in
    double-column mode.
outlining in macros/latex/contrib
    Create outlines for scientific documents.
pdfprivacy in macros/latex/contrib
    Suppressing PDF metadata.
polexpr in macros/latex/contrib
    Parser for polynomial expressions.
scientific-thesis-cover in macros/latex/contrib
    Generic support for cover pages and affirmations.
sectionbreak in macros/latex/contrib
    Support for thought breaks.
simpleinvoice in macros/latex/contrib
    Easy typesetting of invoices.

statmath in macros/latex/contrib
    Simple use of statistical notation.
stealcaps in macros/latex/contrib
    Borrow small capitals from another font.
textualicomma in macros/latex/contrib
    Using the text ',' as decimal separator in math.
thesis-gwu in macros/latex/contrib
    Thesis class for George Washington University
    School of Engineering and Applied Science.
timbreicmc in macros/latex/contrib
    Include watermarks for ICMC/USP (Brazil).
translator in macros/latex/contrib
    Easy translation of strings.
unitn-bimrep in macros/latex/contrib
    Class for the bimonthly PhD engineering report at
    Università di Trento.
univie-ling in macros/latex/contrib
    Class for the applied linguistics department at
    Vienna University.
xtuthesis in macros/latex/contrib
    XTU (China) thesis template.
xurl in macros/latex/contrib
    Allow url break at any alphanumeric character.

macros/latex/contrib/beamer-contrib/themes
beamertheme-saintpetersburg in m/l/c/b-c/themes
    Support for Saint Petersburg State University.

macros/latex/contrib/biblatex-contrib
biblatex-ext in m/l/c/biblatex-contrib
    Extended BibLaTeX standard styles.

macros/luatex/latex
bezierplot in macros/luatex/latex
    Approximate smooth function graphs with splines.
gurps in macros/luatex/latex
    Generic Universal Role Playing System materials.
plantuml in macros/luatex/latex
    Rendering diagrams specified in PlantUML.
typewriter in macros/luatex/latex
    Typeset with randomly variable monospace font.
wallcalendar in macros/luatex/latex
    Wall calendar class with custom layouts and
    internationalization.

macros/xetex/latex
sexam in macros/xetex/latex
    Support for Arabic exam scripts.

support
ctan-o-mat in support
    Upload or validate a package for CTAN.
lyluatex in support
    Include LilyPond scores in a LuaLaTeX document.
npp-for-context in support
    ConTeXt plugin for Notepad++.