The Treasure Chest

This is a selection of the new packages posted to CTAN (`ctan.org`) from April–October 2016, 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.

> ⋄ Karl Berry
> `tugboat (at) tug dot org`

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biblio

`apalike-german` in `biblio/bibtex/contrib`
    `apalike.bst` with German localization.
`biolett-bst` in `biblio/bibtex/contrib`
    BibTEX style for *Biology Letters*.
`ietfbibs` in `biblio/bibtex/utils`
    Generate BibTEX entries for IETF index files.
`pbibtex-base` in `biblio/pbibtex`
    Base files for the Japanese pBibTEX.

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fonts

`baekmuk` in `fonts`
    Baekmuk Korean fonts, in TrueType.
`beuron` in `fonts`
    Monumental capitals from the Beuron art school.
`chivo` in `fonts`
    The contemporary grotesque Chivo.
∗ `cormorantgaramond` in `fonts`
    A contemporary Garamond-based family in several weights and styles.
`eulerpx` in `fonts`
    Modern interface for the Euler math fonts.
`fonts-churchslavonic` in `fonts`
    Fonts for the Church Slavonic language.
`frederika2016` in `fonts`
    Zapf's calligraphic Greek companion to his Virtuosa, in OpenType.
`oldstandardt1` in `fonts`
    Type 1 versions of the Old Standard fonts previously common in Russia.
`ptex-fonts` in `fonts`
    Fonts used with pTEX, originally from `ptex-texmf`.

`rosario` in `fonts`
    The contemporary semiserif Rosario.
`unfonts` in `fonts`
    Korean Un-fonts collection, in TrueType.
`unfonts-extra` in `fonts`
    Korean Un-fonts collection extras, in TrueType.
`uppunctlm` in `fonts`
    Keep upright shape for punctuation and numerals.
`uptex-fonts` in `fonts`
    Japanese fonts used with upTEX.
`yinit-otf` in `fonts/gothic`
    Haralambous' Old German initials in OpenType.
`zhmetrics-uptex` in `fonts`
    Chinese font metrics for upTEX.

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graphics

`axodraw2` in `graphics`
    Feynman diagrams in LATEX.
`binarytree` in `graphics/pgf/contrib`
    Draw binary trees with TikZ.
`mgltex` in `graphics`
    Create graphics from MathGL scripts embedded directly in a document.
`pgf-spectra` in `graphics/pgf/contrib`
    Draw spectra of elements in PGF.
`pst-cie` in `graphics/pstricks/contrib`
    Draw (many kinds of) arrows in PSTricks.
`table-fct` in `graphics/pstricks/contrib`
    Draw variations table of a function and convexity table of its graph.
`tikz-page` in `graphics`
    Help visualize page layout.

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info

`latex2e-help-texinfo-fr` in `info`
    French translation of `latex2e-help-texinfo`.
`pstricks-examples-7` in `info`
    Examples from the 7th edition PSTricks book by Herbert Voß.
`texproposal` in `info`
    LATEX promotion proposal for Chinese universities.

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language

`banglatex` in `language/bengali`
    Enhanced LATEX integration for Bangla.
`bxjalipsum` in `language/japanese`
    Dummy Japanese text, counterpart of `lipsum`.
`churchslavonic` in `language/churchslavonic`
    Typesetting in the Church Slavonic language,
`platex-base` in `language/japanese`
    Format and other support for pLATEX.
`ptex-base` in `language/japanese`
    Format and other support for (e)pTEX.
`ptex-tools` in `language/japanese`
    (u)pLATEX standard tools bundle.
`uplatex-base` in `language/japanese`
    Format and other support for upLATEX.

uptex-base in language/japanese
    Format and other support for upTEX.

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macros/generic

autoaligne in macros/generic
    Align terms and members in math expressions.
listofitems in macros/generic
    Operate on lists with user-specified separator.
markdown in macros/generic
    Support for Markdown across engines via Lua.
olsak-misc in macros/generic
    Single-file plain TEX macros by Petr Olšák.
randomlist in macros/generic
    Operate on random list elements.

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macros/latex/contrib

acmart in macros/latex/contrib
    Support for ACM publications.
* addfont in macros/latex/contrib
    Easier use of fonts without explicit LATEX support.
artthreads in macros/latex/contrib
    Support for PDF article threads across drivers.
aucklandthesis in macros/latex/contrib
    Support for University of Auckland theses.
aurl in macros/latex/contrib
    Semantic Web hyperlinks, such as for rdf:type.
autobreak in macros/latex/contrib
    Simple line/page breaking in align environments.
bangorexam in macros/latex/contrib
    Support for Bangor University examinations.
bxenclose in macros/latex/contrib
    Hooks for beginning/end of document body.
bxnewfont in macros/latex/contrib
    \newfontx command allowing font size changes.
coloring in macros/latex/contrib
    Implicitly define named colors.
cookingunits in macros/latex/contrib
    Convert and typeset cooking units.
cquthesis in macros/latex/contrib
    Thesis template for Chongqing University.
datepicker-pro in macros/latex/contrib
    Date chooser for Adobe Reader and related.
diffcoeff in macros/latex/contrib
    Write differential coefficients easily.
graphics-def in macros/latex/contrib
    LATEX graphics drivers: pdftex.def, luatex.def,
    xetex.def, dvipdfmx.def, dvisvgm.def.
ecgdraw in macros/latex/contrib
    Draw electrocardiograms.
emf in macros/latex/contrib
    Support for the EMF (electromotive force) symbol.
fetchbibpes in macros/latex/contrib
    Fetch Bible passages from self-defined collection.
filecontentsdef in macros/latex/contrib
    Display verbatim TEX and make PDF attachment.
footnotehyper in macros/latex/contrib
    Make footnote.sty compatible with hyperref
    and (x)color.

fvextra in macros/latex/contrib
    Automatic line breaking, improved math mode,
    and other fancyvrb enhancements.
getargs in macros/latex/contrib
    Flexible list-parsing macro.
glossaries-finnish in macros/latex/contrib
    Finnish language module for glossaries.
grant in macros/latex/contrib
    Support for US government grant proposals.
hustthesis in macros/latex/contrib
    Unofficial thesis template for Huazhong University.
ijsra in macros/latex/contrib
    Support for the International Journal of Student
    Research in Archaeology.
jacow in macros/latex/contrib
    Support for submissions to the Joint Accelerator
    Conferences Website.
latexgit in macros/latex/contrib
    Fetch and typeset Git information.
ling-macros in macros/latex/contrib
    Macros for typesetting formal linguistics.
linop in macros/latex/contrib
    Linear operators as in quantum theory, etc.
makebase in macros/latex/contrib
    Typeset a counter in any numeric base (default 16).
milog in macros/latex/contrib
    Fulfill German minimum wage law requirements.
navydocs in macros/latex/contrib
    Support for US Navy technical reports.
notespage in macros/latex/contrib
    Fill documents with notes pages and/or notes
    areas.
nwejm in macros/latex/contrib
    Support for the new journal North-Western
    European Journal of Mathematics.
optidef in macros/latex/contrib
    Support for writing minimization problems.
overlays in macros/latex/contrib
    Lightweight alternative for incremental slides.
phffullpagefigure in macros/latex/contrib
    Figure content on a full page, with separate caption.
* phfnote in macros/latex/contrib
    Simple but flexible formatting for short documents.
phfparen in macros/latex/contrib
    Simpler writing of parenthetic math expressions.
phfqit in macros/latex/contrib
    Support for quantum information theory.
phfquotetext in macros/latex/contrib
    Quote verbatim text without whitespace formatting.
phfsvnwatermark in macros/latex/contrib
    Watermarks of version control data from Subversion.
phfthm in macros/latex/contrib
    Enhanced theorem and proof environments.
phonenumbers in macros/latex/contrib
    Typeset telephone numbers in LATEX.
quicktype in macros/latex/contrib
    Abbreviations for quick typesetting.
revquantum in macros/latex/contrib
    Easier writing of quantum papers for revtex4-1.

richtext in `macros/latex/contrib`
> Rich text for fields made by the `eforms` package.

rpg-module in `macros/latex/contrib`
> Old-school Dungeons & Dragons modules.

sanitize-umlaut in `macros/latex/contrib`
> Sanitize umlauts in index entries for `makeindex`.

semantic-markup in `macros/latex/contrib`
> Semantic markup in the spirit of the Text Encoding Initiative, especially for humanities and music.

spalign in `macros/latex/contrib`
> Typeset matrices and arrays with spaces and semicolons as delimiters.

testidx in `macros/latex/contrib`
> Dummy text for testing any indexing code.

tocdata in `macros/latex/contrib`
> Add names or other text per sectioning entry in contents and lists of figures.

typed-checklist in `macros/latex/contrib`
> Checklists with different types of items.

umbclegislation in `macros/latex/contrib`
> UMBC Student Government Association bills.

uspace in `macros/latex/contrib`
> Giving meaning to Unicode space characters.

xcntperchap in `macros/latex/contrib`
> Track multiple levels of sectioning.

xcolor-material in `macros/latex/contrib`
> The colors of the Google Material Color Palette.

macros/latex/contrib/babel-contrib

babel-belarusian in `m/l/c/babel-contrib`
> Babel support for Belarusian.

macros/latex/contrib/beamer-contrib

beamerswitch in `m/l/c/beamer-contrib`
> Support for one Beamer document producing slides, a handout, a reference, or other variants.

beamertheme-cuerna in `m/l/c/beamer-contrib/themes`
> Beamer theme with four-color palette.

macros/latex/contrib/biblatex-contrib

biblatex-abnt in `m/l/c/biblatex-contrib`
> Support for Brazil's ABNT rules.

biblatex-bookinother in `m/l/c/biblatex-contrib`
> New entry types and fields for books contained in another work.

biblatex-claves in `m/l/c/biblatex-contrib`
> Manage claves of old literature.

biblatex-gb7714-2015 in `m/l/c/biblatex-contrib`
> Support for the Chinese GBT7714-2015.

biblatex-ijsra in `m/l/c/biblatex-contrib`
> Support for the *International Journal of Student Research in Archaeology*.

biblatex-iso690 in `m/l/c/biblatex-contrib`
> Support for ISO 690:2010.

biblatex-lni in `m/l/c/biblatex-contrib`
> Support for the *Lecture Notes in Informatics*.

biblatex-morenames in `m/l/c/biblatex-contrib`
> New name fields for BibLATEX.

biblatex-nottsclassic in `m/l/c/biblatex-contrib`
> Support for the University of Nottingham style.

biblatex-sbl in `m/l/c/biblatex-contrib`
> Support for the Society of Biblical Literature.

macros/luatex

cstypo in `macros/luatex/generic`
> Czech typography enforced via LuaTEX hooks.

nodetree in `macros/luatex/generic`
> Visualize structure of node lists.

macros/xetex

font-change-xetex in `macros/xetex/plain`
> Change text and math fonts in plain XƎTEX.

langsci in `macros/xetex/latex`
> Support for Language Science Press works.

support

byzantinemusic in `support`
> Support for writing Byzantine music.

extractpdfmark in `support`
> Extract page mode and destinations as PDFmarks.

gitfile-info in `support`
> Get Git metadata for a specific file.

gregoriotex in `support`
> Engraving Gregorian chant scores.

∗ latex2nemeth in `support`
> Convert LATEX to Braille with Nemeth math.

latex-papersize in `support`
> Compute LATEX settings for font and paper sizes.

pdflatexpicscale in `support`
> Downscale graphics for smaller PDF sizes.

pdfxup in `support`
> Compose n-up documents while removing margins.

∗ texosquery in `support`
> Query basic locale, environment, file information.

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