This is a selection of the new packages posted to CTAN (ctan.org) from October 2018–April 2019, 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

biblio

alpha-persian in biblio/bibtex/contrib
Persian version of alpha.bst, using Xetex.
econ-bst in biblio/bibtex/contrib
Customizable BibTeX style for economics papers.
zootaxa-bst in biblio/bibtex/contrib
BibTeX style for the journal Zootaxa.

fonts

crimsonpro in fonts
Eight weights and italics for each weight.
cuprum in fonts
Cuprum font family support for LpTeX.
garamond-math in fonts
OpenType math font matching EB Garamond.
inriafonts in fonts
Inria fonts with LpTeX support.

graphics

chordbars in graphics/pgf/contrib
Chord grids for pop/jazz tunes in TiKZ.
chordbox in graphics/pgf/contrib
Draw chord diagrams in TiKZ.
euflag in graphics
Flag of European Union using standard packages.
fiziko in graphics/metapost/contrib/macros
MetaPost library for physics textbook illustrations.
memorygraphs in graphics/pgf/contrib
Typeset graphs of program memory in TiKZ.
ptolemaicastronomy in graphics/pgf/contrib
Diagrams of sphere models for variably strict conditionals (Lewis counterfactuals).

indexing

*xindex in indexing
Unicode-compatible index generation (in Lua).

info

*joy-of-tex in info
Text of Michael Spivak’s Joy of TeX, for the AMS-TEX format.
latex4musicians in info
Guide for combining \LaTeX and music.
texonly in info
Sample document in plain TeX.

language/thai

zhlineskip in language/chinese
Line spacing for CJK documents.

language/japanese

bxjaholiday in language/japanese
Support for Japanese holidays.
pxjodel in language/japanese
Help change metrics of fonts from japanese-otf.

macros/generic

poormanlog in macros/generic
Standalone package for logarithms and powers, with almost 9 digits of precision.

macros/latex/contrib

armymemo in macros/latex/contrib
Class for Army memorandums, following AR 25-50.
asseconf in macros/latex/contrib
Template for ASME conference papers.
brandeis-problemset in macros/latex/contrib
Class for COSI problem sets at Brandeis University.
bussproofs-extra in macros/latex/contrib
Extra commands for bussproofs.sty.
changelog in macros/latex/contrib
Changelog environment; supports multiple authors, unreleased changes, revoked releases, etc.
commedit in macros/latex/contrib
Commented (teacher/student) editions.
elegantbook in macros/latex/contrib

“Elegant” (Chinese) template for books.
elegantnote in macros/latex/contrib

“Elegant” (Chinese) template for notes.
elegantpaper in macros/latex/contrib

“Elegant” (Chinese) template for economics papers.
elexercisepoints in macros/latex/contrib

Typeset articles for Elsevier’s Complex Article Service (CAS) workflow.
eqexpl in macros/latex/contrib

Align explanations for formulas.
exam-randomizechoices in macros/latex/contrib

Random order of choices, under the exam class.
exercisepoints in macros/latex/contrib

Count and score exercises.
exframe in macros/latex/contrib

Framework for exercise problems.
fascicules in macros/latex/contrib

Create mathematical manuals for schools.
\fbox in macros/latex/contrib

Extended \fbox macro from standard \LaTeX.
frenchmath in macros/latex/contrib

Typesetting mathematics with French rules.
ftc-notebook in macros/latex/contrib

Typeset FIRST Tech Challenge notebooks.
gamma in macros/latex/contrib

Template for the GAMM Archive for Students.
gitver in macros/latex/contrib

Typeset current git hash of a document.
globalvals in macros/latex/contrib

Declare global variables that can be used anywhere, including before their declaration.
glossaries-estonian in macros/latex/contrib

Estonian translations for the glossaries package.
ingammas in macros/latex/contrib

Bracketed dichotomous identification keys.
k佳xindex in macros/latex/contrib

Index entry by key lookup, e.g., for names.
latex-uni8 in macros/latex/contrib

Generic \inputenc, \fontenc, and babel for pd\LaTeX
and Lua\LaTeX.
laxalexalpha2 in macros/latex/contrib

Embed Mathematica code and plots into \LaTeX.
laxecolors in macros/latex/contrib

Color definitions from latexcolors.com.
laxetctools in macros/latex/contrib

Support for typesetting lecture notes.
laxfira in macros/latex/contrib

Use the Fira Code font for listings.
laxguide in macros/latex/contrib

Extended \ltxguide class.
metalogox in macros/latex/contrib

Adjust \LaTeX logos, with font detection.
misolns in macros/latex/contrib

Extract solutions from exercises and quizzes.
mismath in macros/latex/contrib

Mathematical macros for ISO rules.
modeses-fac-tures-belges-assocs in m/1/c

Make invoices for Belgian non-profit organizations.
multicolrule in macros/latex/contrib

Decorative rules between columns.
njurepo in macros/latex/contrib

Report template for Nanjing University.
qsharp in macros/latex/contrib

Syntax highlighting for Q# language.
realhats in macros/latex/contrib

Replace math hat (\hat) symbols with pictures of actual hats.
rgltxdoc in macros/latex/contrib

Common macros for documentation of the author’s packages.
rulerbox in macros/latex/contrib

Draw rulers around a box.
ryersonthesis in macros/latex/contrib

Thesis template for the Ryerson School of Graduate Studies (SGS).
scratch3 in macros/latex/contrib

Draw Scratch programs with \LaTeX.
tablyvar in macros/latex/contrib

Draw tables of signs and variations per French usage.
topiclongtable in macros/latex/contrib

Extend longtable with cells that merge hierarchically.
ucalgmthesis in macros/latex/contrib

Thesis class for University of Calgary Faculty of Graduate Studies.
xpdftips in macros/latex/contrib

Extend natbib citations with PDF tooltips.

macros/latex/contrib/beamer-contrib/themes

beamerauthxtheme in m/1/c/b-c/themes

Supplementary outer and inner themes for beamer.
beamertHEME-light in m/1/c/b-c/themes

Minimal beamer theme.

macros/latex/contrib/biblatex-contrib

bicite in m/1/c/biblatex-contrib

Indices locorum citatorum: indexes of authors and works, generated from a bibliography.
windy-city in m/1/c/biblatex-contrib

A Chicago style for \BibTeX.

macros/latex/contrib

beamer-rl in macros/latex/contrib

Right-to-left presentation with \beamer and babel.
luiimageembed in macros/latex/contrib

Embed images as base64-encoded strings.
laurandom in macros/latex/contrib

Create lists of random numbers.
**makecookbook in macros/luatex/latex**

Support cookbook typesetting.

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**macros/xetex/latex**

**quran-de in macros/xetex/latex**

German translations for the quran package.

**technion-thesis-template in macros/xetex/latex**

Thesis template for the Technion graduate school.

**tetragonos in macros/xetex/latex**

Macro mapping for Chinese characters for the four-corner method.

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**macros/xetex/plain**

**do-it-yourself-tex in macros/xetex/plain**

Modifiable forms, macros, samples for plain Xe\TeX.

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**support**

**pdftex-quiet in support**

Filter and colorize pdftex terminal output.

**pkgcheck in support**

CTAN package checker.

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**systems/unix**

**tex-fpc in systems/unix**

Change files for the Free Pascal compiler.

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*Comic by John Atkinson ([https://wronghands1.com](https://wronghands1.com)).*