These are the new packages posted to CTAN (ctan.org) from October 2019–March 2020, along with a few notable updates. Descriptions are 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.

Nearly all the packages in this column are included in the TeX Live 2020 release; the few exceptions are those where the package did not meet TeX Live’s criteria for inclusion. For notable updates to the TeX engines and other software in TL’20 (and previous years), see tug.org/texlive/doc/texlive-en/texlive-en.html#news.

We hope this column helps people access the vast amount of material available through CTAN and the distributions. See also ctan.org/topic. Comments are welcome, as always.

⋄ Karl Berry
tugboat (at) tug dot org

fonts

c clara in fonts
Extensive family created by Séamas Ó Brógáin for A Dictionary of Editing (2015).

cmupint in fonts
Upright integral symbols for Computer Modern.

domitian in fonts
Extended Palladio (Palatino) with small caps, old-style figures, scientific inferiors, etc.

erewhon-math in fonts
Utopia-based OpenType math font.
etbb in fonts
Extended XETBook (which extended Tufte’s ETBook).
gfssidotclassic in fonts/greek/gfs
Classic GFSDidot font in OpenType.
haranoaji in fonts
Harano Aji fonts, Mincho and Gothic.
haranoaji-extra in fonts
Additional variants of Harano Aji fonts.
lexend in fonts
Lexend variable font.

c/ctan.org/pkg/clara
mpfonts in fonts
Computer Modern Type 3 fonts, a direct conversion from METAFONT via MetaPost.

*newcomputermodern in fonts
OpenType Computer Modern with Greek and Cyrillic; additions requested.

noto-emoji in fonts
Noto Color Emoji.

quality in fonts
45 now-free OpenType fonts from Qualitype; a wide variety of designs.

scholax in fonts
Extended TeXGyreSchola (New Century Schoolbook) with math support and more.

twemoji-colr in fonts
COLR/CPAL-based color emoji from the Twemoji collection.

wasy-type1 in fonts
Type 1 version of Roland Waldi’s wasy fonts, version 2.4.

circuit-macros in graphics
M4 macros for electric circuit diagrams.

chemplants in graphics/pgf/contrib
Process flow diagrams of chemical processes.

kblocks in graphics/pgf/contrib
Typeset control block diagrams and signal flow graphs.

lie-hasse in graphics/pgf/contrib
Draw Hasse diagrams for Lie algebras.

pinoutikz in graphics/pgf/contrib
Draw chip pinouts.

tikz-3dtools in graphics/pgf/contrib
Manipulate 3d coordinates and other tools.

tikz-trackschematic in graphics/pgf/contrib
Create railway track diagrams.

yquant in graphics/pgf/contrib
Typeset quantum circuits from a description that is human-readable.

language/mongolian
xecyrmongolian in language/mongolian
Basic support for Cyrillic Mongolian in Unicode.

macros/generic
expkv-def in macros/generic
Define keys for expkv.

expkv in macros/generic
Expandable key=val implementation.

macros/latex/contrib
accessibility in macros/latex/contrib
Generate tagged and structured PDF files, with special support for KOMA-Script.

algxpar in macros/latex/contrib
Support multiple lines of pseudo-code text.

apa7 in macros/latex/contrib
Format documents in 7th edition APA style.

autofancyhdr in macros/latex/contrib
Compute headlength for fancyhdr.

bearwear in macros/latex/contrib
Shirts for tikzbears.

biblatex2bibitem in macros/latex/contrib
Convert Bib\LaTeX-generated bibliography to \bibitem.

bibleref in macros/latex/contrib
Format bible citations.

brandeis-thesis in macros/latex/contrib
Class for Brandeis University M.A. theses.

circledsteps in macros/latex/contrib
Typeset circled numbers.

euclideangeometry in macros/latex/contrib
Extended picture environment for geometric ruler and compass constructions.

fewerfloatpages in macros/latex/contrib
Produce fewer half-empty float pages. See article in this issue, pp. 54–68.

fontsetup in macros/latex/contrib
Easily switch between different math fonts.

fontsize in macros/latex/contrib
Set main document font to an arbitrary size.

fontsize in macros/latex/contrib
Set main document font to an arbitrary size.

ezhepaper in macros/latex/contrib
Support for high energy physics writing.

hitszthesis in macros/latex/contrib
Template for bachelor dissertations at Harbin Institute of Technology.

hvrurl in macros/latex/contrib
Typeset the QR code for a url in the margin.

langsci-avm in macros/latex/contrib
Attribute–value matrices and feature structures for linguistics.

language/korean
pmhanguljamo in language/korean
Poor man’s Hangul Jamo input method.
leiletter in macros/latex/contrib
Letter class for Leiden University.
letterswitharrows in macros/latex/contrib
Scalable arrows over math symbols.
metastr in macros/latex/contrib
Store and compose arbitrary strings.
oops in macros/latex/contrib
Framework for organizing definitions inline.
pdfpc in macros/latex/contrib
Support for pdfpc presentation viewer.
physconst in macros/latex/contrib
Macros for commonly used physical constants, per CODATA 2018.
physunits in macros/latex/contrib
Macros for physical units, including both SI and cgs.
pmdb in macros/latex/contrib
Poor man’s database for building exams, homework, etc.
rest-api in macros/latex/contrib
Format a REST API description.
shulmathematik in macros/latex/contrib
Support for German-speaking teachers of math and physics.
sdaps in macros/latex/contrib
Creating machine-readable questionnaires processable with SDAPS.
secnum in macros/latex/contrib
Specify section numbering intuitively.
shortmathj in macros/latex/contrib
Shorten titles of mathematical journals.
simplebnf in macros/latex/contrib
Typeset Backus-Naur form expressions, possibly annotated.
thorshammer in macros/latex/contrib
Assessment based on Acrobat quizzes.
tkz-base in macros/latex/contrib/tkz
Drawing tools for cartesian coordinate systems.
verifica in macros/latex/contrib
Typeset exercises, especially for Italian high schools.
xkcdcolors in macros/latex/contrib
Color names from the xkcd survey. (xkcd.com/color/rgb)
xkcd colors

macros/latex/contrib/beamer-contrib/themes
hitcshbeamer in m/1/c/b-c/themes
Harbin Institute of Technology beamer theme.

macros/latex/contrib/biblatex-contrib
biblatex-ajc2020unofficial in m/1/c/biblatex-contrib
BIBLaTEX style for the Australasian Journal of Combinatorics.

biblatex-german-legal in m/1/c/biblatex-contrib
Citation style for German legal texts.
biblatex-jura2 in m/1/c/biblatex-contrib
Citation style for the German legal profession.

baracuda in luatex/generic
Lua package to draw barcode symbols.
emoji in luatex/latex
Emoji support.
lua-ul in luatex/latex
Underlining for LuaLaTeX.
optex in luatex
LuaLaTEX format based on plain TEx and OPmac.

parsa in macros/xetex/latex
Theses and dissertations at Iranian universities.
xepersian-hm in macros/xetex/latex
Fix kashida feature in xepersian.

* lua-uca in support
Lua implementation of the Unicode collation algorithm.
texlab in support
Cross-platform Language Server Protocol, for ETeX code completion.
texlive-dummy-enterprise-linux-8 in support/texlive
Dummy rpm to satisfy dependencies on TeX Live resources without additional installation.
texpate in support
Create document structure based on templates.