



The Treasure Chest

This is a selection of the new packages posted to CTAN (ctan.org) from April–October 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 T_EX community. See also ctan.org/topic. Comments are welcome, as always.

◇ Karl Berry
tugboat (at) tug dot org

fonts

almendra in fonts

Almendra is a new calligraphic typeface design.

bitter in fonts

Bitter is a new slab serif design.

forum in fonts

Forum is a new design with classic proportions and multilingual support.

garamond-libre in fonts

Garamond Libre is based on Textfonts, with multilingual and OpenType support.

librefranklin in fonts

Libre Franklin is a reinterpretation of the classic 1912 Franklin Gothic design.

imfellflowers in fonts

Two flower fonts by I.M. Fell, revided by Igino Marini.

linguisticspro in fonts

Linguistics Pro is based on Utopia Nova, with two Cyrillic designs.

logix in fonts

More than 3,000 symbols, especially logic-related, complementing STIX2.

marcellus in fonts

Marcellus is a new flared-serif design, inspired by Roman inscriptions.

poiretone in fonts

PoiretOne is a new decorative geometric grotesque.

step in fonts

STEP is a Times-like font family forked from STIX and XITS.

theanodidot in fonts

TheanoDidot is a modern Greek design.

theanomodern in fonts

TheanoModern is also a modern Greek design.

theanooldstyle in fonts

TheanoOldStyle is an old-style Greek design.

graphics

codeanatomy in graphics

Support code anatomy as described in <https://introcs.cs.princeton.edu/java/13flow>.

flowframtk in graphics/pgf/contrib

Java application to create vector graphics for PGF and design frames for flowfram.

matrix-skeleton in graphics/pgf/contrib

Simplify working with multiple matrix nodes.

pgfmorepages in graphics/pgf/contrib

Assemble multiple pages on one physical page, extending pgfpages.

pst-turtle in graphics/pstricks/contrib

“Turtle” graphics (left, right, etc.) in PSTricks.

simpleoptics in graphics/pgf/contrib

Drawing lenses and mirrors for optical diagrams.

info

apprendre-a-programmer-en-tex in info

Learning to program in T_EX (written in French).

language/japanese

bxghost in language/japanese

Ghost insertion for proper xkanjiskip.

macros/generic

tokcycle in macros/generic

Build tools to process tokens one at a time.

macros/latex-dev

*latex-base-dev in macros/latex-dev/base

New format to simplify testing L^AT_EX release candidates: run `pdflatex-dev` (or similar for other engines) to help test. For details, see the L^AT_EX news item in this issue of *TUGboat* and latex-project.org/news.

latex-amsmath-dev

latex-graphics-dev

latex-tools-dev in macros/latex-dev/required

The core packages accompanying latex-base-dev.

macros/latex/contrib

amscdx in macros/latex/contrib

Enhanced commutative diagrams.

arraycols in macros/latex/contrib

New column types for `array` and `tabular`.

asmejour in macros/latex/contrib

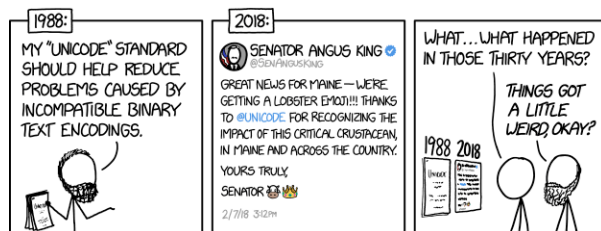
Template for American Society of Mechanical Engineers (ASME) journals.

bargraph-js in macros/latex/contrib

Bar graphs with Acrobat forms and JavaScript.

macros/latex/contrib/bargraph-js

- `centeredline` in `macros/latex/contrib`
Enhanced `\centerline`.
- `csvmerge` in `macros/latex/contrib`
Merge TeX code with CSV data.
- `ddphonism` in `macros/latex/contrib`
Twelve-tone music matrices, clock diagrams, etc.
- `derivative` in `macros/latex/contrib`
Easy and customizable derivatives.
- `ehhline` in `macros/latex/contrib`
Extend `hhline` by applying L^AT_EX commands.
- `glossmathtools` in `macros/latex/contrib`
Generate a list of mathematical symbols or notation.
- `glossaries-slovene` in `macros/latex/contrib`
Slovene translation for `glossaries`.
- `hu-berlin-bundle` in `macros/latex/contrib`
Classes for the Humboldt-Universität of Berlin.
- `inkpaper` in `macros/latex/contrib`
Mathematical paper template for
github.com/inklatex-group/InkPaper.
- `mathcommand` in `macros/latex/contrib`
Define macros with various math mode behaviors.
- `labels4easylist` in `macros/latex/contrib`
Add reference labels to `easylist` items.
- `mlacls` in `macros/latex/contrib`
Class for MLA (humanities) format.
- `numberprt` in `macros/latex/contrib`
Typeset counters spelled out in Portuguese.
- `practicalreports` in `macros/latex/contrib`
Macros to simplify report writing.
- `proof-at-the-end` in `macros/latex/contrib`
Move proofs to an appendix, and more.
- `pseudo` in `macros/latex/contrib`
Straightforward pseudo-code typesetting.
- `quantumarticle` in `macros/latex/contrib`
Template for the Quantum journal.
- `quiz2socratic` in `macros/latex/contrib`
Prepare questions for Socratic quizzes.
- `scontents` in `macros/latex/contrib`
Store and reuse code sequences.
- `spacingtricks` in `macros/latex/contrib`
New and updated macros for improved spacing.
- `subtext` in `macros/latex/contrib`
Easy `\text-style` subscripts in math mode.
- `thuaslogos` in `macros/latex/contrib`
Logos of The Hague University of Applied Sciences (THUAS).
- `tuda-ci` in `macros/latex/contrib`
Templates for the Technische Universität Darmstadt.
- `unam-thesis` in `macros/latex/contrib`
Support for National Autonomous University of Mexico (UNAM) dissertations.
- *`unicode-alphabets` in `macros/latex/contrib`
Macros for characters from various Private Use Area (PUA) character sets in L^AT_EX (CYFI, MUFI, SIL, TITUS, UNZ).
- `unifith` in `macros/latex/contrib`
Theses at the University of Florence in Italy.
- `unizgklasa` in `macros/latex/contrib`
Theses at the Faculty of Graphic Arts in Zagreb.
- `vtable` in `macros/latex/contrib`
Vertical alignment of table cells.
- `yazd-thesis` in `macros/latex/contrib`
Theses at Yazd University in Iran.
-
- macros/luatex/latex**
- `addliga` in `macros/luatex/latex`
Access basic f-ligatures in TrueType fonts lacking a liga table.
- `hmtrump` in `macros/luatex/latex`
Typeset playing cards.
- `pdfarticle` in `macros/luatex/latex`
Class for PDF publications with LuaL^AT_EX.
-
- macros/xetex/latex**
- `nanicolle` in `macros/xetex/latex`
Herbarium specimen labels in Chinese.
- `quran-ur` in `macros/xetex/latex`
Urdu translations for the quran package.
-
- support**
- `zblbuild` in `support`
Shell/GUI script to help select a BIBL^AT_EX style and options.
-
- systems**
- `pdftex-djgpp` in `systems/msdos/djgpp-contrib`
Binary for `pdftex` for the `msdos-djgpp` distribution.
-
- web**
- `closure-pamphlet` in `web`
Literate programming based on Clojure pamphlets.



Comic by Randall Munroe (<https://xkcd.com>).