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 \TeX{} community. See also ctan.org/topic. Comments are welcome, as always.

\begin{itemize}
\item [\diamond] Karl Berry
\texttt{tugboat (at) tug dot org}
\end{itemize}

\section*{fonts}

\begin{itemize}
\item \texttt{almendra} \texttt{in fonts}
Almendra is a new calligraphic typeface design.
\item \texttt{bitter} \texttt{in fonts}
Bitter is a new slab serif design.
\item \texttt{forum} \texttt{in fonts}
Forum is a new design with classic proportions and multilingual support.
\item \texttt{garamond-libre} \texttt{in fonts}
Garamond Libre is based on Textfonts, with multilingual and OpenType support.
\item \texttt{librefranklin} \texttt{in fonts}
Libre Franklin is a reinterpretation of the classic 1912 Franklin Gothic design.
\item \texttt{imfellflowers} \texttt{in fonts}
Two flower fonts by I.M. Fell, revided by Igino Marini.
\item \texttt{linguisticspro} \texttt{in fonts}
Linguistics Pro is based on Utopia Nova, with two Cyrilic designs.
\item \texttt{logix} \texttt{in fonts}
More than 3,000 symbols, especially logic-related, complementing STIX2.
\item \texttt{marcellus} \texttt{in fonts}
Marcellus is a new flared-serif design, inspired by Roman inscriptions.
\item \texttt{poiretone} \texttt{in fonts}
PoiretOne is a new decorative geometric grotesque.
\item \texttt{step} \texttt{in fonts}
STEP is a Times-like font family forked from STIX and XITS.
\item \texttt{theanodidot} \texttt{in fonts}
TheanoDidot is a modern Greek design.
\item \texttt{theanomodern} \texttt{in fonts}
TheanoModern is also a modern Greek design.
\item \texttt{theanooldstyle} \texttt{in fonts}
TheanoOldStyle is an old-style Greek design.
\end{itemize}

\section*{graphics}

\begin{itemize}
\item \texttt{codeanatomy} \texttt{in graphics}
Support code anatomy as described in https://introcs.cs.princeton.edu/java/13flow.
\item \texttt{flowframtk} \texttt{in graphics/pgf/contrib}
Java application to create vector graphics for PGF and design frames for flowfram.
\item \texttt{matrix-skeleton} \texttt{in graphics/pgf/contrib}
Simplify working with multiple matrix nodes.
\item \texttt{pgfmorepages} \texttt{in graphics/pgf/contrib}
Assemble multiple pages on one physical page, extending pgfpages.
\item \texttt{pstr-turtle} \texttt{in graphics/pstricks/contrib}
“Turtle” graphics (left, right, etc.) in PSTricks.
\item \texttt{simpleoptics} \texttt{in graphics/pgf/contrib}
Drawing lenses and mirrors for optical diagrams.
\end{itemize}

\section*{info}

\begin{itemize}
\item \texttt{apprendre-a-programmer-en-tex} \texttt{in info}
Learning to program in \TeX{} (written in French).
\end{itemize}

\section*{language/japanese}

\begin{itemize}
\item \texttt{bxghost} \texttt{in language/japanese}
Ghost insertion for proper xkanjiskip.
\end{itemize}

\section*{macros/generic}

\begin{itemize}
\item \texttt{tokcycle} \texttt{in macros/generic}
Build tools to process tokens one at a time.
\end{itemize}

\section*{macros/latex-dev}

\begin{itemize}
\item [\*] \texttt{latex-base-dev} \texttt{in macros/latex-dev/base}
New format to simplify testing \LaTeX{} release candidates: run \texttt{pdflatex-dev} (or similar for other engines) to help test. For details, see the \LaTeX{} news item in this issue of \textit{TUGboat} and latex-project.org/news.
\item \texttt{latex-amsmath-dev}
\texttt{latex-graphics-dev}
\texttt{latex-tools-dev} \texttt{in macros/latex-dev/required}
The core packages accompanying \texttt{latex-base-dev}.
\end{itemize}

\section*{macros/latex/contrib}

\begin{itemize}
\item \texttt{amscdx} \texttt{in macros/latex/contrib}
Enhanced commutative diagrams.
\item \texttt{arraycols} \texttt{in macros/latex/contrib}
New column types for \texttt{array} and \texttt{tabular}.
\item \texttt{asmejour} \texttt{in macros/latex/contrib}
Template for American Society of Mechanical Engineers (ASME) journals.
\item \texttt{bargraph-js} \texttt{in macros/latex/contrib}
Bar graphs with Acrobat forms and JavaScript.
\end{itemize}
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 \LaTeX commands.
glossaries-slovene in macros/latex/contrib
Slovene translation for \glossaries.
inkpaper in macros/latex/contrib
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.
numberpt 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.
quiz2socrative 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.
uman-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 \TeX (CYFI, MUI, SIL, TITUS, UNZ).
unifith in macros/latex/contrib
Theses at the University of Florence in Italy.
unizgklsasa 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
adliga 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 \LuaLaTeX.

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 \BibLaTeX style and options.

systems
pdfTeX-djgpp in system/msdos/djgpp-contrib
Binary for pdfTeX for the msdos-djgpp distribution.

web
clojure-pamphlet in web
Literate programming based on Clojure pamphlets.

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