This is a list of selected new packages posted to CTAN (http://www.ctan.org) from July 2007–May 2008, with descriptions based on the announcements and edited for brevity.

Entries are listed alphabetically within CTAN directories. A few entries which the editors subjectively believed to be of especially wide interest or otherwise notable are starred; of course, this is not intended to slight the other contributions!

Hopefully this column and its companions will help to make CTAN a more accessible resource to the \TeX{} community. Comments are welcome, as always.

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**biblio**

- **aichej** in biblio/bibtex/contrib/misc
  B******************************************
  - Bib\TeX{} style file for the American Institute of Chemical Engineers Journal.

- **bib2ml** in biblio/bibtex/utils
  Perl script converting Bib\TeX{} databases to HTML, XML, or SQL.

- **fbs** in biblio/bibtex/contrib/misc
  B******************************************
  - Bib\TeX{} style file for Frontiers in Bioscience.

- **text2bib** in biblio/bibtex/utils
  PHP script to references to Bib\TeX{}.

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**fonts**

- **Asana-Math** in fonts
  An OpenType math font with almost all mathematical Unicode symbols and the MATH OpenType table supported by X\LaTeX{} and Word 2007.

- **cyklop** in fonts
  OpenType, Type 1, and support files for the Cyklop typeface, a very high contrast display design.

- **fge** in fonts
  A font for Frege’s Grundgesetze der Arithmetik.

- **gfsbaskerville** in fonts/greek/GFS
  The venerable Baskerville design with complete support for Greek (only).

- **hwkatakana** in fonts
  Half-width Katakana Type 1 fonts in the SJIS encoding, based on the Wadalab fonts.

- **lxfonts** in fonts
  Revived \LaTeX{} slide fonts for both text and math.

- **umtypewriter** in fonts
  Four OpenType fonts supporting Latin, Greek, and Cyrillic scripts.

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**graphics**

- **automata** in graphics/metapost/contrib/macros
  Draw finite state machines, graphs, trees, etc.

- **bpolynomial** in graphics/metapost/contrib/macros
  Draw polynomial functions up to degree three.

- **dot2tex** in graphics
  Convert Graphviz-format graphs to \LaTeX{}-friendly formats.

- **graphicxsp** in graphics
  Embed graphics in PDF output once, and support the Adobe transparency imaging model.

- **pgfplots** in graphics/pgf/contrib
  Normal and logarithmic plots using Ti\k{}Z/PGF.

- **pgf-soroban** in graphics/pgf/contrib
  Draw a Japanese abacus using Ti\k{}Z/PGF.

- **pst-cox** in graphics/pstricks/contrib
  Draw two-dimensional projections of complex regular polytopes (after Coxeter).

- **pst-diffraction** in graphics/pstricks/contrib
  Draw diffraction patterns for different geometric forms of apertures for monochromatic light.

- **pst-optexp** in graphics/pstricks/contrib
  Facilitate sketching of optical experimental setups.

- **pst-pad** in graphics/pstricks/contrib
  Draw attachment surfaces for friction and adhesion models.

- **pst-solides3d** in graphics/pstricks/contrib
  Draw solids in three-dimensional perspective.

- **pst-soroban** in graphics/pstricks/contrib
  Draw a Japanese abacus using PSTricks.

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**info**

- **compact** in info/symbols/compact
  Beamer-style list of common symbols, including the variations in tfonts.

- **dtxgallery** in info
  Collection of minimal .dtx examples.

- **12tabues** in info/12tabu/spanish
  Spanish translation of 12tabu.

- **latex-brochure** in info
  Publicity flyer for \LaTeX{}; please print and post wherever appropriate.

- **lshort-slovenian** in info/lshort/slovenian
  Slovenian translation of lshort.

- **mpman-ru** in info/metapost/doc/russian
  Russian translation of the MetaPost user’s guide.

- **texbytopic** in macros/latex/contrib
  Victor Eijkhout’s excellent \TeX{} reference book \TeX{} by Topic, now available under the GNU Free Documentation License.

- **xetexref** in info
  Unofficial reference documentation for X\LaTeX{}.
Enhancements of Official American Meteorological Society \LaTeX{} under the modified BSD license.

A high-quality Japanese \TeX{} system by ASCII Co., compatible with \TeX{}-based systems. Released under the modified BSD license.

Provide bold Latin and Greek characters within \LaTeX{}-based systems. Released under the modified BSD license.

Locally changing text width or other page layout elements on answers, etc.

Support for catechisms: question-and-answer, comments on answers, etc.

Locally changing text width or other page layout based on odd/even pages; compatible with \verb|memoir|, unlike \verb|changepage|.

Support for a chemical scheme float type with automatic numbering.

Display numbers in math mode according to ISO-31-0, regardless of input format.

Support for the journal \textit{La Gaceta de la Real Sociedad Matemática Española}.

Draw a hexagonal game board.

Conditionals for testing the current operating system (using \verb|\texttt{-shell-escape}|).

\LaTeX{} class for the Israel Journal of Mathematics.

Generate overview page of a photo gallery, possibly adjusting photo sizes.

Display numbers in math mode according to ISO-31-0, regardless of input format.

Classes supporting Japanese, including \texttt{jsarticle} and \texttt{jsbook}.

\LaTeX{} support for the CM Cyrillic fonts.

\LaTeX{} package for typesetting exams, including space for students to show work.

Reimplementation of \texttt{mcite} with support for physics-style grouping of multiple citations; compatible with REV\TeX{}4.

\LaTeX{} support for No Starch Press.

Integrate footnotes, endnotes, and other notes in a bibliography.
numname in macros/latex/contrib
   Convert a numerical number to the English spelled-out name of the number.
perltex in macros/latex/contrib
   Define \LaTeX macros in terms of Perl code.
phlex in macros/latex/contrib
   Dynamically cross-reference to names and contents of environments.
sagetex in macros/latex/contrib
   Embed Sage code and plots into \LaTeX.
sfmath in macros/latex/contrib
   Switch all mathematics typesetting to sans serif.
show2e in macros/latex/contrib
   Support for \show variants suited to \LaTeXe’s commands and environments, and other debugging help.
shipunov in macros/latex/contrib
   Bundle with support for field biologists, Russian-language authors, and much more.
siunitx in macros/latex/contrib
   Comprehensive package for typesetting values with units.
stex in macros/latex/contrib
   (\Bi\TeX)\TeX support for mathematical knowledge management, via allowing semantic markup without leaving the document format.
stringstrings in macros/latex/contrib
   Large collection of expandable routines for string processing.
subdepth in macros/latex/contrib
   Unify math subscript height.
tablor in macros/latex/contrib
   Create tables for signs and variations using XCAS for calculus and MetaPost for drawing.
ted in macros/latex/contrib
   Token list editor: substitutions and display of tokens.
theoremref in macros/latex/contrib
   Variants of label and ref for theorem-like environments.
thinsp in macros/latex/contrib
   A stretchable \thinspace for \LaTeX.
*translator in macros/latex/contrib
   Open translation platform, compatible with babel.
turnstile in macros/latex/contrib
   Support for logicians’ turnstile sign.
upmethodology in macros/latex/contrib
   Support for Unified Process methodologies (UP or RUP).
varsfromjobname in macros/latex/contrib
   Select hyphen-separated pieces of \jobname.
vxu in macros/latex/contrib
   Classes for Växjö University, Sweden.
xargs in macros/latex/contrib
   Define macros with many optional arguments.
xskak in macros/latex/contrib
   Extensions to skak for chess typesetting, including saving information for later use.

macros/latex/exptl

biblatex-dw in macros/latex/exptl/biblatex-contrib
   Support for humanities-style citations and more, for biblatex.
biblatex-mla in macros/latex/exptl/biblatex-contrib
   Support for MLA-style parenthetical citations and bibliographies in biblatex.
gcite in macros/latex/exptl
   German-style citations, providing a small amount of bibliographic information in a footnote on the page where each citation is made.
thmtools in macros/latex/exptl
   Keyval interface to \newtheorem, a \listoftheorems command, \hyperref compatibility, and more theorem extensions.

tamil-omega in macros/omega/latex/contrib
   Typeset the Tamil script using Omega.

macros/omega

xceyr in macros/xetex/latex
   Support for Cyrillic languages in \Xe\LaTeX + babel.

macros/xetex

acroweb in support
   Scripts for creating interactive tests in Acro\TeX from web databases.
autolatex in support
   Automate generation of large-scale \LaTeX projects.
ctantools in support
   Search \LaTeX packages on CTAN.
delig in support
   Java program to disable misplaced ligatures in \LaTeX documents, for example “Auflage” in German.
fastpictex in support
   Preprocessor for Pi\CTeX to ease creation of line graphs, bar graphs, x-y graphs, etc.
graphconv in support
   Windows program to convert Graph (http://www. padowan.dk/graph/) files to PSTricks.
jlm in support/jed
   \LaTeX mode for the JED editor.
miktex_update in support
   Automate updating and installing of new packages of an existing MiK\TeX installation.
texcount in support
   Count number of words in \LaTeX text, with color output. Also available as a web service: http://folk.uio.no/einarro/Comp/texwordcount.html.
vic in support
   Version control for (\Bi)\TeX, supporting Subversion and Git.