



## The Treasure Chest

This is a list of selected new packages posted to CTAN (<http://ctan.org>) from January–June 30, 2007, 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 T<sub>E</sub>X community. Comments are welcome, as always.

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### fonts

#### \*GFS in fonts

Support for Greek Font Society fonts: Artemisia, Bodoni, Complutum, Didot, Epigrafica, NeoHellenic, Porson, and Solomos.

#### kpfonts in fonts

Full set of new fonts for typesetting text and math, based on URW Palladio.

#### linuxlibertine in fonts

The Linux-Libertine project supports several alphabets (including Latin, Cyrillic, Greek and Hebrew) in a variety of shapes.

#### tex-gyre in fonts

The ongoing T<sub>E</sub>X Gyre project extends many free fonts from URW and other sources.

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### graphics

#### pdftex.def in graphics/pdftex

This single-file package provides support for L<sup>A</sup>T<sub>E</sub>X graphics and color in pdfT<sub>E</sub>X. It has received many recent updates.

#### pst-fractal in graphics/pstricks/contrib

A PSTricks package for drawing Julia sets, Mandelbrot sets, the Sierpinski triangle.

#### pst-qtrees in graphics/pstricks/contrib

A wrapper around PSTricks providing easy syntax for trees.

#### sketch in graphics

Sketch translates 3d scenes expressed in a fairly powerful PSTricks-like language to both PSTricks and TikZ/PGF.

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### info

#### Math\_into\_LaTeX-4 in info/examples

A short course to help you get started quickly with L<sup>A</sup>T<sub>E</sub>X, including detailed instructions on how to install L<sup>A</sup>T<sub>E</sub>X under Windows or Mac OS X.

#### pdf-forms-tutorial in info

Tutorial on creating PDF forms using pdf<sub>l</sub>atex, hyperref and ins<sub>d</sub>lj<sub>s</sub>.

#### sommer in info/templates

Document templates by Jörg Sommer.

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### language

#### japanese in language/japanese

Adds functionality of a Japanese option in Babel.

#### mnhyphn in language/hyphenation

Mongolian hyphenation, with babel support.

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### macros/generic

#### fenixpar in macros/generic

Handle \everypar and, in general, token registers that need to restore themselves.

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### macros/latex/contrib

#### aeb\_tilebg in macros/latex/contrib

Tile a rectangular graphic as page background.

#### animate in macros/latex/contrib

Creating PDF animations.

#### bookest in macros/latex/contrib

An extension of the book class.

#### \*cleveref in macros/latex/contrib

Automatic cross-reference formatting, according to label type.

#### cmdstring in macros/latex/contrib

Reliable \string on commands.

#### colorwav in macros/latex/contrib

Get an RGB set for a wavelength of visible light.

#### dlfltxb in macros/latex/contrib

Various macros either used for creating *Introduction til L<sup>A</sup>T<sub>E</sub>X* or presented in the book as code tips.

#### doi in macros/latex/contrib

Ensure correct hyperlinks to [dx.doi.org](http://dx.doi.org).

#### ecv in macros/latex/contrib

A fancy Curriculum Vitae class.

#### \*elatex in macros/latex/contrib

Toolbox of programming facilities geared primarily towards L<sup>A</sup>T<sub>E</sub>X class and package authors. (Its name is not meant to imply that it patches the L<sup>A</sup>T<sub>E</sub>X kernel; it does not.)

#### fancytooltips in macros/latex/contrib

Define tooltips with arbitrary T<sub>E</sub>X or graphics material.

- gcard** in `macros/latex/contrib`  
 Arrange text on a sheet to fold into a greeting card.
- glossaries** in `macros/latex/contrib`  
 Create glossaries and acronym lists.
- gmeometric** in `macros/latex/contrib`  
 Support `\geometry` of the `geometry` package inside `{document}`.
- inversepath** in `macros/latex/contrib`  
 Calculate relative inverse (`../`) file paths.
- jj\_game** in `macros/latex/contrib`  
 A  $\LaTeX$  class to construct Jeopardy-like games.
- leading** in `macros/latex/contrib`  
 Define leading via a length (cf. `\linespread`).
- memexsupp** in `macros/latex/contrib`  
 Experimental memoir support.
- mlist** in `macros/latex/contrib`  
 Exploring separation of form and content for math constructs.
- oberdiek** in `macros/latex/contrib`  
 This bundle from Heiko Oberdiek includes many new packages and updates.
- philosophersimprint** in `macros/latex/contrib`  
 Typesetting articles for the online journal *Philosophers' Imprint*.
- qstest** in `macros/latex/contrib`  
 Bundle for unit tests and pattern matching.
- sdrt** in `macros/latex/contrib`  
 Produce the “Box notation” of SDRT and DRT.
- simplecv** in `macros/latex/contrib`  
 Simple class for a curriculum vitae.
- songs** in `macros/latex/contrib`  
 Create beautiful song books for your church or fellowship.
- synproof** in `macros/latex/contrib`  
 Easy drawing of syntactic proofs (a.k.a. derivations) in modern logic.
- texilikecover** in `macros/latex/contrib`  
 Create covers similar to those of GNU Texinfo.
- trivfloat** in `macros/latex/contrib`  
 A simple way to define new float types in  $\LaTeX$ .
- umthesis** in `macros/latex/contrib`  
 Dissertation class for the University of Michigan.
- unroman** in `macros/latex/contrib`  
 Convert from roman numerals to Arabic numbers.
- verbatimcopy** in `macros/latex/contrib`  
 Small package to perform a verbatim copy of one text file and save it in another.
- xfor** in `macros/latex/contrib`  
 Allow prematurely terminating a `\@for` loop.
- xnewcommand** in `macros/latex/contrib`  
`\protected` or `\global` macros via `\newcommand`.
- xoptarg** in `macros/latex/contrib`  
 Expandable macros that take an optional argument.
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- macros/xetex**
- arabxetex** in `macros/xetex/latex`  
 An Arab $\TeX$ -like interface for Arabic script typesetting with  $X_{\text{T}}\TeX$ .
- bidi** in `macros/xetex/latex`  
 Typesets bidirectional texts with  $X_{\text{T}}\TeX$ .
- xgreek** in `macros/xetex/latex`  
 Typesets Greek using  $X_{\text{T}}\TeX$ , with all the options of the `babel` Greek support.
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- support**
- \*mkjobtexmf** in `support`  
 Records and copies files used in a given run, for archiving or speed.
- latexpaper** in `support`  
 Python script to calculate  $\LaTeX$  settings for arbitrary font and page sizes.
- tab4tex** in `support`  
 Preprocessor for tabular tables.