

The Treasure Chest

Editor's note: This is Mark's final column. The editorial board would like to thank Mark for monitoring the CTAN announcements and compiling this collection since 2004.

This is a large but still incomplete list of the new packages posted to CTAN (http://www.ctan.org) in 2006, with descriptions either taken from the announcement or researched, then 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_FX community. Comments are welcome, as always.

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biblio

alphabib in biblio/bibtex/utils

A Bash script allowing addition of alphabetical headers into BibTeX bibliographies.

ijqc in biblio/bibtex/contrib

 $\label{eq:bible_bible} \mbox{BibTeX style for the } \mbox{\it International Journal of Quantum Chemistry}.$

jneurosci in biblio/bibtex/contrib

BIBT_EX style for the Journal of Neuroscience.

mad2bib in biblio/bibtex/utils

Scripts to convert MAD to BibTeX and UTF-8 to LaTeX ASCII.

mrcheckbib in biblio/bibtex/utils

BIBTEX verification using the AMS MRef database.

munich in biblio/bibtex/contrib

The Munich 'name (year)' style.

 $\begin{tabular}{ll} rsc.bst in biblio/bibtex/contrib/misc \\ BibTeX styles for RSC journals. \end{tabular}$

sort-by-letters in biblio/bibtex/contrib

Some BibTeX styles for sorting by initial letters.

Synapsen in biblio/bibtex/utils

Java program for managing references.

fonts

arial in fonts/urw

An Arial clone in Type 1 format.

classico in fonts/urw

URW Classico, a clone of Hermann Zapf's Optima.

cmll in fonts

Linear logic symbols for Computer Modern.

emerald in fonts

Support for Emerald City Fontwerks fonts.

enpassant in fonts/chess

Use free chess fonts from www.enpassant.dk.

foekfont in fonts

Fonts and LATEX macros to use the title font of the Mads Foek magazine, http://madsfoek.dk.

fonetika in fonts

Fonts for the Danish phonetic system Dania, based on URW Palladio and Iwona Condensed.

indic in fonts/ps-type1

Indic Type 1 fonts for T_EX converted from public METAFONT sources.

JustFontItTE in fonts/utilities

Windows program with the functionality of standard TEX utilities such as pltotf and vftovp. Can create TFM files from PFB, TTF, OTF, and more.

linearA in fonts

LinearA script.

*otfinst in fonts/utilities

Installs OpenType fonts for use in (LA)TEX systems.

sarabian in fonts/archaic

Type 1 fonts for the South Arabian script in use from roughly 1000 to $600\,\mathrm{BC}$.

$\verb|starfont| in fonts/ps-type1|$

Support for the StarFont Sans astrological font.

*tex-gyre in fonts

Extensions of the well-known URW and other free fonts, much as Latin Modern is an extension of Computer Modern.

thaifonts-scalable in fonts/thai

A collection of Thai scalable fonts.

winfonts in fonts

Support for the Windows core fonts.

xq in fonts

Fonts and macros for xiangqi (Chinese chess).

graphics

AddTeX2Eps in graphics

Use IATEX syntax on EPS figures from Mathematica.

blockdraw_mp in graphics/metapost/contrib/macros Block diagrams and bond graphs.

cmarrows in graphics/metapost/contrib/macros MetaPost arrows and braces in CM style.

gapfill in graphics

Generate LATEX picture environments by parsing PostScript files.

gastex in graphics

ETEX macros to draw automata, networks, etc., in the ETEX picture environment.

m3D in graphics/metapost/contrib/macros
Three-dimensional drawing with METAPOST.

MPStoEPS in graphics/metapost/contrib/misc METAPOST to EPS converter.

pedigree-perl in graphics/pstricks/contrib Generate pedigrees in TFX from CSV files.

prerex in graphics

Produce charts of course nodes linked by arrows representing pre- and co-requisites.

pst-asr in graphics/pstricks/contrib

Autosegmental representations, used by linguists.

pst-code in graphics/pstricks/doc/code
Original code documentation of PSTricks from Timothy Van Zandt.

pst-coil in graphics/pstricks/contrib
Coils and zigzags as lines or node connections.

pst-dbicons in graphics/pstricks/contrib

Typesetting ER diagrams in declarative style, using standard database terminology.

pst-eps in graphics/pstricks/contrib
 Exporting pspicture environments.

pst-fill in graphics/pstricks/contrib Filling and tiling of areas and characters.

pst-grad in graphics/pstricks/contrib
 Colored gradients.

pst-ob3d in graphics/pstricks/contrib Support for basic 3-dimensional objects.

pst-pdgr in graphics/pstricks/contrib/pedigree Draw medical pedigrees with PSTricks and LATEX.

 ${\tt pst-spectra~in~graphics/pstricks/contrib}\\ {\tt Draw~continuum,~emission~and~absorption~spectra.}$

*pst-text in graphics/pstricks/contrib Typeset text on a path.

splines in graphics/metapost/contrib/macros MetaPost/METAFONT macros for drawing graphs of cubic splines.

*textpath in graphics/metapost/contrib/macros
Typeset text along a path with the help of LATEX,
so kerns are preserved and 8-bit input is supported.

uml in graphics/pstricks/contrib Writing UML diagrams in LATEX.

info

*Free_Math_Font_Survey in info

A survey of the free math fonts available for use with (IA)TEX. Vietnamese translation in the vn subdirectory.

 ${\tt MemoirChapStyles} \ \, {\tt in} \ \, {\tt info}$

Memoir chapter style showcase.

MFwL in info

Making Friends with 上TEX, a LaTEX introduction.

12picfaq in info/12picfaq/german

Questions about LATEX and pictures, and answers in the form of sample code.

*visualFAQ in info

A visual interface to the UK TEX FAQ.

language

*arabi in language/arabic

Arabic and Farsi support in standard LATEX via Babel, using several input encodings, including UTF-8. Includes good-quality free fonts.

bghyph in language/hyphenation Bulgarian hyphenation patterns.

glhyph in language/hyphenation Galician hyphenation patterns.

hrlatex in language/croatian
Typical setup for Croatian users.

mkbangtex in language/bengali Preprocessor for BangTeX.

magyar in language/hungarian/babel

Much improved Hungarian definitions for Babel.

mexican in language

Modifications to Spanish for Mexican typography.

mkpattern in language/hyphenation/utils

TeX program for generating hyphenation patterns.

staves in language

Fonts and macros for the "magical" Icelandic staves as well as the runic letters used in Iceland.

thailatex in language/thai

Babel-based Thai support with fonts.

macros/generic

dirtree in macros/generic/ Display directory trees.

macros/latex/contrib

abc in macros/latex/contrib Support ABC Plus (abcplus.sourceforge.net) music notation in LATEX.

active-conf in macros/latex/contrib/conferences Class for typesetting papers at the ACTIVE conference on noise and vibration control.

akktex in macros/latex/contrib

Collection of new document classes and packages, easing creation of math documents in particular.

arabicfront in macros/latex/contrib/bezos

Number pages in Arabic numerals starting with the front matter. $\,$

authoraftertitle in macros/latex/contrib

Make title, author and date available after $\mbox{\tt maketitle}.$

auto-pst-pdf in macros/latex/contrib

Wrapper for pst-pdf with some psfrag features.

boxhandler in macros/latex/contrib

Managing boxed objects such as tables and figures, with caption customization.

bussproofs in macros/latex/contrib

Construction of proof trees in the style of the sequent calculus and other systems.

*cellspace in macros/latex/contrib

Minimal spacing of table cells to avoid touching

centernot in macros/latex/contrib/oberdiek

Horizontally center a \not symbol on its argument.

chessboard in macros/latex/contrib

Typeset chessboards.

classicthesis in macros/latex/contrib

Thesis style in homage to *The Elements of Typo-graphic Style*.

cool in macros/latex/contrib

COntent Oriented LaTeX, retaining mathematical meaning in addition to the typesetting instructions.

coollist in macros/latex/contrib

Manipulation of lists.

coolstr in macros/latex/contrib

Manipulation of strings (sequences of characters, not tokens).

cooltooltips in macros/latex/contrib

Associate a pop-up window and tooltip with a PDF hyperlink.

coverpage in macros/latex/contrib

Supplement scientific papers with a cover page.

dateiliste in macros/latex/contrib

Typeset the file list (like \listfiles), and more.

digiconfigs in macros/latex/contrib

Small package for easily writing 'configurations', i.e., special $\circ + \bullet$ matrices.

disser in macros/latex/contrib

Document class and templates for dissertations in Russian.

draftwatermark in macros/latex/contrib

Typeset a light gray watermark of user-defined text on the first page or every page of a document.

duerer-latex in macros/latex/contrib

LATEX support for the duerer fonts.

dvdcoll in macros/latex/contrib

Typeset DVD (or similar) collection overviews.

dyntree in macros/latex/contrib

Typeset Dynkin Tree Diagrams from group theory.

eskdx in macros/latex/contrib

Implement Russian standards for designers.

everypage in macros/latex/contrib

Provides hooks to be run on each page of a document

exceltex in macros/latex/contrib

Access Excel files from LATEX.

extpfeil in macros/latex/contrib

Extensible arrows and commands to create new ones.

${\tt faktor} \ {\tt in} \ {\tt macros/latex/contrib}$

Typeset quotient structures.

flippdf in macros/latex/contrib

Produce a "mirrored" version of the document, for typesetting on transparent film.

forloop in macros/latex/contrib

Provides the command \forloop.

gmdoc in macros/latex/contrib

Documenting packages with minimal markup and hyperlinks. Needs the other new packages gmiflink, gmverb, and gmutils from the same author.

gnuplottex in macros/latex/contrib

Generate and include Gnuplot (http://gnuplot.info) graphs in LATEX.

gu in macros/latex/contrib

Typeset crystallographic group-subgroup-schemes in Bärnighausen formalism.

hyperxmp in macros/latex/contrib

Embed XMP metadata within a LATEX document.

icsv in macros/latex/contrib/conferences

Class for typesetting papers at the ICSV conference.

isodoc in macros/latex/contrib

Producing customizable letters, invoices, etc.

labelcas in macros/latex/contrib

Tests and branches depending on label existence.

lewis in macros/latex/contrib

Rudimentary support for drawing Lewis Structures.

lingtrees in macros/latex/contrib

Linguistic tree macros and preprocessor.

lsc in macros/latex/contrib

Typesetting Live Sequence Charts, similar to msc.

marginnote in macros/latex/contrib

Marginal notes where \marginpar fails.

minipage-marginpar in macros/latex/contrib

Allow \marginpar commands outside minipages; an alternative approach to marginnote.

moderncv in macros/latex/contrib

Typesetting modern curriculum vitae, in classic and casual styles.

nih in macros/latex/contrib

Class for grant applications to the US government National Institutes of Health.

noitcrul in macros/latex/contrib

Underlining with italic correction (in math).

opteng in macros/latex/contrib

Manuscript template for SPIE Optical Engineering and OE Letters, including page length estimates.

pandora-latex in macros/latex/contrib

LATEX support for the pandora fonts.

papercdcase in macros/latex/contrib

Origami-style folding paper CD cases.

pauldoc in macros/latex/contrib

Helpers for German-language IATEX package documentation.

$\verb"pax" in \verb"macros/latex/contrib"$

Avoid pdfTEX's stripping of PDF annotations in included PDF files, via an external Java program.

pinlabel in macros/latex/contrib

Attach formatted TEX labels to new or existing figures and diagrams.

*pracjourn in macros/latex/contrib

Document class for *The PracTEX Journal*, http://tug.org/pracjourn.

punk-latex in macros/latex/contrib LATEX support for the punk fonts.

qtree in macros/latex/contrib

Typeset tree diagrams, especially for linguistics.

randbild in macros/latex/contrib

Put small plots of curves in the margin.

*randtext in macros/latex/contrib

Typeset obfuscated text to foil spam email address harvesters. Supersedes switchem1.

ratex in macros/latex/contrib

Producing German legal documents, e.g., lawsuits.

recipecard in macros/latex/contrib

Typesets recipes into note card sized boxes.

robustcommand in macros/latex/contrib

Variant of \DeclareRobustCommand which checks if the command has already been defined.

screenplay in macros/latex/contrib

Screenplay formatting as recommended by the Academy of Motion Picture Arts and Sciences.

seqsplit in macros/latex/contrib

Splitting long sequences of letters without spaces, such as DNA, RNA, proteins, etc.

showexpl in macros/latex/contrib

Show LATEX code and typeset result from one source.

sikumna in macros/latex/contrib/lyx

Extended LyX layout style for use in Sikumna, http://www.sikumuna.co.il.

simplewick in macros/latex/contrib

Drawing Wick contractions above and below expressions in math mode.

 ${\tt spotcolor} \ \operatorname{in} \ {\tt macros/latex/contrib}$

Include spot colors in pdfLATEX output.

stackel in macros/latex/contrib/oberdiek

Adds optional argument to \stackrel for including something below the relation, and defines \stackbin for binary symbols.

stellenbosch in macros/latex/contrib

Typesetting dissertations, theses and reports of the University of Stellenbosch, South Africa.

*sudokubundle in macros/latex/contrib

Typesetting, solving, and creating Sudoku puzzles; over 50 puzzles are included.

sugconf in macros/latex/contrib/conferences

Document class for SAS user group proceedings.

susy in macros/latex/contrib

Support for supersymmetry-related documents.

svn-multi in macros/latex/contrib

Typesetting Subversion keywords, including documents with multiple source files.

 $\verb|syntrace| in \verb|macros/latex/contrib| \\$

Support for tracing trees created with the synttree package.

tabto in macros/latex/contrib

Tabbing to fixed positions in a paragraph.

technica in macros/latex/contrib

A suite of packages for typesetting literary texts.

telprint in macros/latex/contrib/oberdiek

Formatting German telephone numbers.

tengwarscript in macros/latex/contrib

Mid-level access to the tengwar fonts with good default output.

thesis-titlepage-fhAC in macros/latex/contrib

Title page for Fachschule Aachen theses.

thuthesis in macros/latex/contrib

Thesis template for Tsinghua University.

titlepage-uni-dortmund in macros/latex/contrib

Title page layout for the University of Dortmund.

toptesi in macros/latex/contrib

Bundle for thesis typesetting in Italy, supporting any language.

wordlike in macros/latex/contrib

Simulates standard word processor layout and fonts.

xifthen in macros/latex/contrib

Extended if—then features.

xyling in macros/latex/contrib

Draw syntactic trees and other linguistic constructs, based on Xy-pic.

xytree in macros/latex/contrib

Tree drawing package using Xy-pic.

macros/latex/exptl

*biblatex in macros/latex/exptl

Reimplementation of the bibliographic facilities provided by LATEX in conjunction with BIBTEX: BIBTEX is used only for sorting and producing labels, and bibliography formatting is controlled entirely by TEX macros, not BIBTEX style files. Still experimental.

xbase in macros/latex/exptl

Provides LATEX3 packages xparse and template.

macros/omega

fontch in macros/omega/latex/contrib Typeset Malayalam using Omega.

macros/xetex

euenc in macros/xelatex/latex

Unicode font encoding definitions for X¬TEX.

grchyph in macros/xetex/hyphenation

Unicode hyphenation patterns for ancient Greek.

ifxetex in macros/xetex/latex

Provides the \ifxetex conditional.

sanhyph in macros/xetex/hyphenation

Unicode hyphenation patterns for Prakrit and Sanskrit in Devanagari, Bengali, Kannada, Malayalam and Telugu scripts.

xetex-greek in macros/xetex/hyphenation

Standard Greek hyphenation patterns adapted for $X \subseteq T \in X$.

*xlxtra in macros/xetex/latex

Additional LATEX features for XATEX.

$\mathbf{support}$

cms4talks in support

A Java-based content management system for talks written in LATEX.

dinbrief-gui in support

Graphical interface for the dinbrief TEX package.

*escapeTeXt in support

Modular Python program to massage plain text so it can likely pass through LATEX.

gentabtex in support

Table rendering engine written in Python.

orderer in support

Reorder references in a LATEX document by order of citation.

pkfix in support

Replaces resolution-dependent bitmapped fonts in a dvips-produced PostScript file with the corresponding resolution-independent vector fonts.

rfil in support

The Ruby font installer library (RFIL) attempts to manage installation of TEX fonts.

word-to-latex in support

Windows program to convert Microsoft Word documents to LATEX or XML.

systems

visualtex in systems/win32

Visual TEX text editor.

We end this installment of Treasure Chest with the covers from the newly released TeX Collection 2007, now being mailed to user group members. See http://tug.org/texcollection for more information.





