TEX Users Group

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There is always a danger of becoming so entranced with speed and efficiency that we may forget that suitability to use is still the most important element of any typographic job.

Oscar Ogg
*The 26 Letters*, Revised edition (1971)
During 2000, the communications of the \TeX \ Users Group will be published in four issues. The September issue (Vol. 21, No. 3) will contain the Proceedings of the 2000 TUG Annual Meeting.

\textit{TUGboat} is distributed as a benefit of membership to all members.

Submissions to \textit{TUGboat} are reviewed by volunteers and checked by the Editor before publication. However, the authors are still assumed to be the experts. Questions regarding content or accuracy should therefore be directed to the authors, with an information copy to the Editor.

\textbf{Submitting Items for Publication}

The next regular issue will be Vol. 21, No. 2. Production and mailing have been delayed; the second and third issues for 2000 are expected to be sent to the printer in October. Deadlines for future issues are listed in the Calendar, page 92.

Manuscripts should be submitted to a member of the \textit{TUGboat} Editorial Board. Articles of general interest, those not covered by any of the editorial departments listed, and all items submitted on magnetic media or as camera-ready copy should be addressed to the Editor, Barbara Beeton, or to the Production Manager, Mimi Burbank (see addresses on p. 3).

Contributions in electronic form are encouraged, via electronic mail, on diskette, or made available for the Editor to retrieve by anonymous FTP; contributions in the form of camera copy are also accepted. The \textit{TUGboat} "style files", for use with either \texttt{plain \TeX} or \texttt{L\TeX}, are available from CTAN. For authors who have no network FTP access, they will be sent on request; please specify which is preferred. Send e-mail to \texttt{TUGboat@tug.org}, or write or call the TUG office.

This is also the preferred address for submitting contributions via electronic mail.

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Additional reviewers are needed, to assist in checking new articles for completeness, accuracy, and presentation. Volunteers are invited to submit their names and interests for consideration; write to \texttt{TUGboat@tug.org} or to the Editor, Barbara Beeton (see address on p. 3).

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\textbf{Other TUG Publications}

TUG publishes the series \textit{\TeX}ni\textit{ques}, in which have appeared reference materials and user manuals for macro packages and \TeX-related software, as well as the Proceedings of the 1987 and 1988 Annual Meetings. Other publications on \TeXnical subjects also appear from time to time.

TUG is interested in considering additional manuscripts for publication. These might include manuals, instructional materials, documentation, or works on any other topic that might be useful to the \TeX\ community in general. Provision can be made for including macro packages or software in computer-readable form. If you have any such items or know of any that you would like considered for publication, send the information to the attention of the Publications Committee at \texttt{tug-pub@tug.org} or in care of the TUG office.

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The 21st Annual Conference of the \TeX\ Users Group will take place at Wadham College, Oxford, between Sunday 13th August and Wednesday 16th August 2000. Tutorials will be given on the 17th and 18th August.

The Location

Oxford is a small, pleasant city with an internationally famous university. The city is full of ancient buildings, beautiful gardens, libraries and bookshops. The conference will be held in Wadham College, a traditional college (founded 1613) in the centre of the city. Oxford is easily reached from London, and is a good starting point for visiting much of southern England.

The Conference

The conference will feature talks on all aspects of \TeX\ and its relationship to both traditional and electronic document preparation and processing. The Annual General Meeting of the \TeX\ Users’ Group will be held during the period of the conference. We expect the cost to a typical delegate to be about £300, including accommodation and meals; cheaper accommodation and bursaries will also be available.

The conference chairman is Sebastian Rahtz (Oxford University Computing Services) and local organisation is led by Kim Roberts (Oxford University Press).

Dates and Contacts

<table>
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Sebastian Rahtz
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Greetings, fellow TUG members!

As this is the first issue of 2000, originally scheduled for March 30, I was going to write an “April Fools” piece to follow Richard Kinch’s joke last year that Dr. Knuth had sold the rights to \TeX\ to Microsoft. Amazingly, Richard’s article was picked up and reprinted all over the world. Many took it seriously, possibly because of the outstanding journalistic style, or maybe it was the fear of your worst nightmare coming true. In any case, it was a good joke and I applaud Richard Kinch for sharing his humor. My little joke was to be about a brand new LUG called TUNA (\TeX\ Users of North America). Conversations about TUG being an umbrella organization for worldwide LUGs have gone on as long as I can remember. Some people think we need a separate organization for the USA and Canada, so this was a great opportunity to have some fun with it. But seriously, TUG is for everyone, wherever they live. Finding enough volunteers to staff another organization would be difficult, not to mention expensive. More importantly, there is no need. I personally feel that we are doing a good job for all of our members in more than 60 countries.

Now that we are well into the year 2000, I am not going to pretend it is March 30 even though that is the target publication date for this issue. We are extremely late, not due to any shortcomings of our Editor or Production Manager, but simply because we need an ample supply of good articles to publish. For some reason, the flow of new material has slowed down, making it difficult to publish a meaningful journal with scarce new content. Please, if you have been thinking of contributing, or have something interesting to share with the \TeX\ community, make it a priority to write the article (or book review, or hints & tips, or whatever) and forward it to our Editor, Barbara Beeton (bnb@ams.org). If only 5% of our members contribute, we will have enough new material to carry us for a year.

In this issue you will find the latest \TeX\ Live CD containing more \TeX\ and related tools than you will find anywhere else. This distribution is a benefit of membership, we hope you find it useful and valuable. There is a one-page introduction, followed by a listing of the CTAN Catalogue, by Graham Williams, indicating which items are present on the CD, and which you will have to look for on CTAN. Please let us know what you think. Send your comments to board@tug.org.

Another benefit we are working on providing is training. This is easily the most requested service we can offer. Our goal is to provide regularly scheduled seminars, probably twice each year in America as well as in Europe. Working with the LUGs around the world, we are developing a prospectus of courses which will be taught by seasoned professionals. From basic introduction to advanced programming and even working with MathML, TUG will provide a series that every user can learn from. If you have ideas, enthusiasm, or time to help, please contact our Office Manager, Robin Laakso, (office@tug.org) or our Program Chair, Susan DeMeritt, (sue@ccrwest.org).

Since I have already admitted that it isn’t March any more, I will forgo inviting you to the annual conference in Oxford. It was an impressive meeting, with great presentations and stellar organization. But I am getting ahead of myself here; you will have to wait a little bit for the proceedings issue, which will be coming soon. Also coming soon will be the next issue of \textit{TUGboat} which will contain the 3-CD set of the CTAN archives. This is yet another benefit of membership that you will certainly enjoy.

Finally, a note of thanks to all of our members, past and present. Last year at the meeting in Vancouver, we set a goal of “2000 members by 2000” which was accomplished late in 1999. By joining TUG and contributing to our publications and projects, you are contributing to a worldwide consortium and expanding knowledge base dedicated to mathematics and science and other disciplines that can benefit from capable publishing tools. Thank you, members!

\includegraphics[width=\textwidth]{tugboat-cover.png}

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Editorial Comments

Barbara Beeton

Erratum: Address for CyrTEx mail

In last issue’s instance of this column, under “International news”, an incorrect address was given for subscribing to CyrTUG’s Russian discussion list; the instructions should have been: To join the list, send e-mail to CyrTeX-ru-subscribe@vsu.ru. I failed to say that there is also an English-language list for discussing cyrillic problems: subscribe at CyrTeX-en-subscribe@vsu.ru. To send mail to either list, remove -subscribe from the subscription addresses.

Both lists are archived, and are available at https://info.vsu.ru/Lists/CyrTeX-**/List.html, substituting ru or en for the ** as appropriate.

Thanks to Vladimir Volovich for the correction and additional information.

History of TEx

Karl Berry reminds us that there’s a site for history buffs at ftp://tug.org/historic. At this site are posted old releases of TEx, METAFONT, LTEx, and other TEx-related software.

Anyone who might have any copies of source code, change files, or platform-specific distributions is invited to get in touch. I will route the information to someone who can arrange for an upload of archive-worthy antiques.

Computers & Typesetting remains in print

Although the Addison Wesley Longman web site may still not be up to date, I have been advised by the A-W Production Director that it is their intention to keep all five C & T volumes in print indefinitely, probably through a print-on-demand facility. All but The TExbook and The METAFONTbook accidentally got on A-W’s out-of-print list when their warehouse and inventory systems changed.

Anyone who has sought a copy of one of these volumes should keep watching at http://www.awl.com/, search on “knuth”.

Please be aware that new printings will not incorporate errata found since the last printing; for errata, as always, look on CTAN in systems/knuth/errata/.

A new printing museum near Boston

In Boston, the collections of the Museum of Printing have been housed in borrowed warehouse space for a number of years. Their long search for permanent quarters has been rewarded; a building originally constructed to house the heavy looms of a textile museum was vacated about a year ago when that museum moved to Lowell, Massachusetts, to be part of the complex surrounding the Lowell National Historical Park. The new Museum of Printing is located in North Andover, north of Boston. The grand opening will be held on July 29, and there will be a preview associated with TypeCon 2000 on June 18, which I hope to attend.

This museum is of particular interest to me as I have been looking for a home for composition-related items—bits of old hardware and associated papers—used at the Math. Society before (and since) the adoption of TEx. The person in charge of the museum’s collections has confirmed their interest in these objects. I now have added to my to-do list the task of cataloguing this material so that its context is not lost.

For more information, visit the museum’s web site at http://www.museumofprinting.org/.

And visit the TUG web page for a list of printing museums around the world. We’re actively updating this, so if you have any additions, please send them to us for posting.

Evolution of alphabets

Here’s another web page that provides considerable food for thought. Did you know that most Western alphabets are ultimately derived from Phoenician? And that Phoenecian derived in turn from the pictographs of Proto-Sinaitic? These glyphs found in the Sinai peninsula, and dating from ca. 1500 BC, are assumed to be the source of the sound symbols developed several centuries later by the Phoenicians.

Visit http://www.wam.umd.edu/~rfradkin/alphapage.html for material associated with a course on “History of the Alphabets” taught by Professor Robert Fradkin at the University of Maryland.

Alphabets shown on these pages include cuneiform, Phoenician, Greek, Latin, Cyrillic, Arabic, and more. Watch shapes change, new letters appear. If you have any interest at all in where your writing system came from, this should more than satisfy your curiosity.

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Software & Tools

XΥMTEX (Version 2.00) as Implementation of the XΥM Notation and the XΥM Markup Language
Shinsaku Fujita and Nobuya Tanaka

Introduction

The XΥMTEX system [1, 2] has been accepted by \TeX/L\LaTeX users as a tool for typesetting chemical structural formulas, since it incorporates several advantages over previous systems [3, 4]. The first version of the system (version 1.00, 1993) with a detailed on-line manual has been deposited to the @Nifty archives (FTEX library No. 11) by one of the authors [5] and to the CTAN by volunteers [6]. Articles on the construction and usage of XΥMTEX have appeared in Ref. [1, 2]. Although the packages (style files) of the XΥMTEX system were originally intended for use under the \LaTeX2ε system, they also work effectively under \LaTeX2ε [7, 8, 9] without any changes.

Version 1.01 of the XΥMTEX system was released in 1996. This version is available from the @Nifty archives [10] or from a CD-ROM that is attached to the reference manual published in 1997 [11, 12]. The main purpose of version 1.01 is the updating of XΥMTEX to meet the \LaTeX2ε way of preparing packages (option style files). The following items were revised or added to encourage XΥMTEX users to write articles in chemical fields.

1. Each of the old sty files of XΥMTEX has been rewritten into a dtx file, from which we have prepared a new sty file by using the docstrip utility [8] of \LaTeX2ε. If you want to obtain the documentation for each source file, you may apply \LaTeX2ε to the corresponding drv file, which has also been prepared from the dtx file by using the docstrip utility.

2. Macros for drawing chair-form conformers of cyclohexane and for drawing adamantanes of an alternative type have been added.

3. Macros for drawing polymers have been added.

4. The package chemist.sty, which was originally prepared for [13], has been rewritten into a dtx file and added to XΥMTEX as a new component. This package enables us to use various functions such as

(a) the numbering and the cross-reference of chemical compounds and derivatives,
(b) various arrows of fixed and flexible length for chemical equations,
(c) ‘chem’ version and chemical environments for describing chemical equations, and
(d) various box-preparing macros for chemical or general use.

The XΥMTEX command system can be regarded as a linear-notation system, which corresponds to the IUPAC nomenclature [14, 15] or to the CAS nomenclature [16]. For example, the command

\begin{verbatim}
\cyclohexaneh[a]{4==Cl}/
\end{verbatim}

for drawing 1 corresponds to the IUPAC name, 4-chlorocyclohex-1-ene, where the substituent “4-chloro” is generated by the code “4==Cl” in the braces (a substitution list: SUBSLIST) and the endocyclic double bond “1-ene” comes from the code “a” in the brackets (a bond list: BONDLIST).

![Diagram 1]

The chlorine atom in 1 is replaced by a cyclohexyl group so as to give 4-cyclohexylcyclohex-1-ene (2). According to this derivation, such a command as

\begin{verbatim}
\cyclohexaneh[a]{4==}\cyclohexaneh{}\}
\end{verbatim}

should be capable of drawing the formula 2 in order that the XΥMTEX command system remains a linear-notation system. However, the latter command is incapable of drawing 2 within XΥMTEX version 1.01, since this version has postulated rather small substituents for the SUBSLIST.

![Diagram 2]

Within the scope of XΥMTEX version 1.01, such a substituent with a complicated structure requires a direct description of layout data, as shown in Chapters 14 and 15 of the XΥMTEX book [11]. Thus, we can use the picture environment of \LaTeX:

\begin{verbatim}
\begin{picture}(1400,700)(0,0)
\put(0,0){\text{\cyclohexaneh[a]{4==}}}
\put(546,0){\text{\cyclohexaneh{}}}
\end{picture}
\end{verbatim}

or the \texttt{\kern} command for horizontal adjustment and the \texttt{\lower} command for vertical adjustment in plain \TeX:
Although these methods are useful for drawing complicated structures, such layout data should be hidden to realize a coherent system of drawing structural formulas. Moreover, the methods have another essential disadvantage: their codes give no, or at most partial, connectivity data between parts to be combined, though such parts appear to be combined as a picture. For example, the code

\cyclohexane[a]{4==\kern-25pt% 
\lower37pt\hbox{\cyclohexane{}}}

producing 4-(3-cyclohex-1-yl)cyclohex-1-ene (3) has no connectivity data at the 1-position to the 3-chlorine atom of the second cyclohexane ring:

For the purpose of overcoming the disadvantages, a new system to be developed should allow us to write such a code as \cyclohexane{1==(yl)} for representing the cyclohexyl substituent. Thus, we find the code for 2:

\cyclohexane[a]{4==\kern-25pt% 
\lower37pt\hbox{\cyclohexane{}}, 1==(yl)}

where the code “1==(yl)” represents the substitution position. This specification of a substitution position is called a yl-function in the present paper. In order to represent the 3-cyclohex-1-yl substituent for 4-(3-cyclohex-1-yl)cyclohex-1-ene, the new system should enable us to use a code such as

\cyclohexane{1==(yl);3==Cl}

as found in the code for 3:

\cyclohexane[a]{4==\kern-25pt%
\lower37pt\hbox{\cyclohexane{}}, 1==(yl);3==Cl}

According to this approach, the XMTeX command system has been refined and extended to give a new linear-notation system, which is now called the XM Notation [17, 18]. The abstract nature of the XM Notation means that XMTeX is now regarded as a software application for \TeX/\ETeX printing, where the XM Notation is parsed by virtue of \TeX/\ETeX. It follows that a further system can be developed on the basis of the XM Notation if another parsing system is available. Moreover, the XM Notation can be used as an intermediate language, into which another language for representing structural formulas is translated so as to print out the formulas. This is the approach reported for the XM Markup Language (XMML) [19].

As clarified by the discussions described in the preceding paragraphs, the first goal of this article is to show a mechanism for the adjustment of substitution positions (or for concealing layout data), which has been developed in XMTeX version 2.00 to support the XM Notation and XMML. The second goal is to exhibit its scope and limitations by using illustrative examples.

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<thead>
<tr>
<th>Package Name</th>
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<tr>
<td>aliphat.sty</td>
<td>macros for drawing aliphatic compounds</td>
</tr>
<tr>
<td>carom.sty</td>
<td>macros for drawing vertical and horizontal types of carbocyclic compounds</td>
</tr>
<tr>
<td>lowcycle.sty</td>
<td>macros for drawing five-or-less-membered carbocycles</td>
</tr>
<tr>
<td>ccycle.sty</td>
<td>macros for drawing bicyclic compounds, etc.</td>
</tr>
<tr>
<td>hetarom.sty</td>
<td>macros for drawing vertical types of heterocyclic compounds</td>
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</tr>
<tr>
<td>xymtex.sty</td>
<td>a package for calling all package files</td>
</tr>
<tr>
<td>chemist.sty</td>
<td>commands for using ‘chem’ version and chemical environments</td>
</tr>
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</table>

**Table 1: Package Files of XMTeX**
fusion, since each ring fusion is considered to be a kind of substitution on a bond. In addition, an atom list (ATOMLIST) can also be used to treat spiro rings, since each spiro ring is a kind of atom replacement at an appropriate vertex.

The \texttt{XMETEX} system (version 2.00) consists of the package files listed in Table 1. The package file \texttt{chemstr.sty} is the basic file that is automatically read within any other package file of \texttt{XMETEX}. It contains macros for internal use, e.g., common commands for bond-setting and atom-setting. The other package files contain macros for users. The use of \texttt{xymtex.sty} calling all package files may sometimes cause the “\TeX capacity exceeded” error. In this case, you should call the necessary packages explicitly by using the \texttt{\usepackage} command.

\textbf{Commands and Functions Added} To expand the scope of the \texttt{XMETEX} system, several new functions have been introduced as follows.

1. Several bond modifiers are added to draw alternative up- and down-bonds as well as to treat ring fusion, as shown in the right formula of Figure 1.

2. Commands for typesetting zigzag polymethylenes are developed (\texttt{methylen.sty}). For example, we obtain

\begin{verbatim}
\pentamethylenesi{3==S}{1D==0;1W==HO}
\end{verbatim}

3. Commands for drawing six-six fused carbocycles and heterocycles are added. Thus, the suffixes “vb” and “vt” are used along with “v”, “vi”, “h” and “hi”;

\begin{verbatim}
\decaheterovb{1==S}{4==F}
\decaheterovt{1==S}{4==F}
\end{verbatim}

4. An optional argument (SKBONDLIST) for representing stereochemistry, e.g., \texttt{(aA}{fB}), is added to each command of general use for drawing boldfaced and dotted skeletal bonds.

\begin{verbatim}
\sixheterov({aA}{fB})%{4==0}{1Sa==CH$_{3}$;1Sb==HO}
\end{verbatim}

5. An optional argument (OMIT) is added to each command for drawing related skeletons by bond deletion. Compare the following structural formulas drawn by the codes with and without an OMIT argument [k].

\begin{verbatim}
\decaheterov{9==O}{4D==O;8D==O}[k]
\decaheterov{9==N}{4D==0;8D==0}
\end{verbatim}

\textbf{Substitution Derivation}

This section deals with the \texttt{yl}-function for complex substitution, where this type of derivation is called \textit{substitution derivation} because of the usage of a substitution list (SUBSLIST).

\textbf{Adjusting Mechanism} For a usual drawing mode, each \texttt{XMETEX} command has its reference point of $x$ and $y$-coordinates $(0,0)$, since \texttt{XMETEX} is based on the \texttt{\LaTeX} picture environment. For example, the \texttt{\cyclohexaneh{}\} command has the reference point shown by a circle in the following diagram:

which is drawn by the code:
The frame is added to show the domain (700,600) of the picture environment, where the bottom-left vertex of the frame corresponds to the origin of (0,0), as shown by a small circle [22]. The reference point can be shifted to a vertex of the cyclohexane ring by means of the code:

\begin{picture}(700,600)(240,400)
\put(240,400){\circle{40}}
\put(0,0){\cyclohexaneh{}}
\end{picture}

where the second argument (240,400) specifies x- and y-shift values. Thereby, we obtain the following diagram:

Then the resulting structure with the reference point shifted is placed in the SUBSLIST of the outer skeleton.

The \cyclohexaneh command is defined on the basis of the \sixheteroh command, which involves the mechanism of shifting the reference point. The fundamentals of the mechanism are in turn implemented in its inner command \@sixheteroh. The definition of this command is cited from heta-romh.sty as follows:

\def\@sixheteroh(#1)[#2]#3#4[#5]{
\iniatom\inisflag%initialize
\test@vrtx@sixh[#3]%
\reset@ylsw%
\ylpositionh[#4]{}{0}{7}{0}%
@if@ylsw
\yl@shifti=\yl@lii
\yl@shiftii=\yl@li
\advance\yl@shiftii\yl@xdiff
\advance\yl@shifti\yl@ydiff
\begin{picture}(0,0)
\(-\yl@shiftii,-\yl@shifti)
\reset@yl@xydiff%
\else
\begin{picture}(880,800)(-240,-400)
%(abbreviated)
\fi
%(abbreviated)
\end{picture}
}

The inner testing command \ylpositionh tests the SUBSLIST (the argument #4) to return a switch \@ylswtrue and shift values for adjustment, if a code (yl) is found in the list. Then, the reference point of the inner picture environment is shifted to the point (-\yl@shiftii,-\yl@shifti).

**Nested Substitution** The \yl-function is quite versatile, as indicated by the code

\decaheterov[]{4a==N}{4D==O;7B==HO;%
\{10}A==H;5==\bzdrv{3==OMe;4==OMe;%
6==Br;1==(yl)}

which produces the following structure:

where the substituted phenyl group is regarded as a substituent. In order that the phenyl substituent has a cyclohexenyl substituent in place of the methyl substituent, the code

\decaheterov[]{4a==N}{4D==O;7B==HO;%
\{10}A==H;5==\bzdrv{4==OMe;%
3==\cyclohexaneh[a]{1==(yl)};%
6==Br;1==(yl)}

is written to generate a formula with a nested substituent as follows:

**Linking Moieties** The commands \ryl and \lyl, which are contained in the chemstr package (file name: chemstr.sty), are used to typeset linking moieties. For example, the command \ryl take a linking unit (N–NH) as the first argument and
a substituent with the $y_l$-function as the second argument, as found in the following code:

\begin{verbatim}
\fiveheterov[d] \{1==N;5==N\} \{4==H$_2$\{2\}N; \%
1==\bdh\{1==(y1)\};2D==0; \%
3D=\yl\{5==N-NH\} \{4==\bdhr\{1==(y1)\}; \%
2==\lmoiety\{MeO\};5==SO$_2$NH$_2$\}\}
\end{verbatim}

This code typesets the following formula:

\begin{center}
\begin{tikzpicture}
\node at (0,0) [draw] {\text{MeO}};
\end{tikzpicture}
\end{center}

\textbf{Atom Derivation}

A new function for typesetting a spiro ring is introduced in each command for general use, in which a substituent generated by the $y_l$-function is placed in its atom list (ATOMLIST). For example, the code

\begin{verbatim}
\sixheterov\{1s==\sixheterov\{4+\}\%
{4==(y1);3D==0}\}\{5D==0\}
\end{verbatim}

contains a code for a spiro-cyclohexanone ring, i.e., \sixheterov\{4==(y1);3D==0\} produced by the $y_l$-function. Note that the atom modifier ‘$s$’ in the code represents the absence of a hetero-atom at the spiro 1-position. Thus, we can draw a spiro[5,5]undecane represented by the following formula:

\begin{center}
\begin{tikzpicture}
\end{tikzpicture}
\end{center}

The following code:

\begin{verbatim}
\sixheterov\{1==N;\%
6s==\cyclohexanev[a]\{3==(y1)\}\%
\{1==\yl\{8==CH$_2$\{2\}\}4==\bdhr\{1==(y1)\}\}
\end{verbatim}

contains $y_l$-functions in an atom list as well as in a substitution list. Using this, we can draw a 1-azaspiro[5,5]undecane,

\begin{center}
\includegraphics[width=0.5\textwidth]{azaspiro.png}
\end{center}

which is the skeleton present in histrionicotoxin.

When a hetero-atom is present at the spiro position, an atom modifier ‘h’ is used in place of ‘s’. For example, the code

\begin{verbatim}
\sixheterov\{1h==\sixheterov\{4+\}\%
{4==N}\{4==(y1)\}\}
\end{verbatim}

sets the following formula:

\begin{center}
\begin{tikzpicture}
\end{tikzpicture}
\end{center}

It should be noted that the BONDLIST of the inner \sixheterov contains the code \{4+\}, which is used for drawing a plus charge at an inner position of the cyclohexane ring.

\textbf{Bond Derivation}

\textbf{Fusing Units} Several fusing units (three- to six-membered units) have been developed (fusering.sty). For example, the codes

\begin{verbatim}
\cyclohexanev\{B\\threefuseh\{}\{b\}\}\{}
\cyclohexanev\{B\\fourfuse\}\{D\}\{}
\end{verbatim}

contain such three- and four-membered fusing units, \threefuse and \fourfuse. They generate fused cyclic compounds as follows.

\begin{center}
\begin{tikzpicture}
\end{tikzpicture}
\end{center}

In addition, five- and six-membered fusing units ($\fivefuse$ and $\sixfuse$) contained in the code,

\begin{verbatim}
\cyclohexanev\{B\\fivefuse\}\{D\}\{}
\cyclohexanev\{B\\sixfuse\}\{e\}\{}
\end{verbatim}

are used to typeset the following bicyclo compounds:

\begin{center}
\begin{tikzpicture}
\end{tikzpicture}
\end{center}
**Ring Fusions**

Ring fusion is treated by adding a fusing unit to the BONDLIST of each command. A unit to be fused is written in the BONDLIST of a command with a bond specifier (a lowercase or uppercase alphabet) in one way. For example, the code

```latex
\texttt{\textbackslash{hanthracene}}\texttt{[{A\sixfuse{}{}{d}}]{}{}}
```

generates a perhydroanthracene with a fused six-membered ring at the bond ‘a’ of the perhydroanthracene nucleus:

![Perhydroanthracene](image)

The letter ‘A’ of the code \{A\sixfuse{}{}{d}\} is a bond specifier that represents the older terminal of the bond ‘a’ of the perhydroanthracene nucleus [21]. On the other hand, the code \sixfuse{}{}{d} of \{A\sixfuse{}{}{d}\} in the BONDLIST represents the fused six-membered ring with the bond ‘d’ omitted. The letter ‘d’ indicates that the fusing point of the unit is the younger terminal of the omitted bond ‘d’. If the the fusing point of the unit is the other (older) terminal, the corresponding uppercase letter ‘D’ should be used.

Accordingly, the same formula can be drawn by the code exchanging uppercase and lowercase letters, as found in the following code:

```latex
\texttt{\textbackslash{hanthracene}}\texttt{[a\sixfuse{}{}{D}]{}{}}
```

![Perhydroanthracene](image)

We can use SUBSLISTs to specify substituents, BONDLISTs to specify endocyclic double bonds, and ATOMLISTs to specify heterocyclic atoms in such fused derivatives. For example, the code

```latex
\texttt{\textbackslash{hanthracene}}\texttt{[aco\textbackslash{A\sixfuse{}{}{e}}]{3\textbackslash{\equiv}S}{}{}{3\textbackslash{\equiv}OH;6\textbackslash{\equiv}HO}}
```

gives a tetracycle having additional substituents:

![Tetracycle](image)

**Nested Ring Fusions**

The \sixfuse{}{}{} command is capable of accommodating another \sixfuse{}{}{} command in a nested fashion. By this technique, the carbazole structure can take a further fused ring so as to produce the structural formula of 7H-pyrazino[2,3-c]carbazole. Thus, the code,

```latex
\texttt{\textbackslash{nonahetero}}\texttt{begj[b\textbackslash{\textbackslash{sixfuse}}{\%ac\textbackslash{\textbackslash{\sixfuse}}{bf}{6\textbackslash{\equiv}N;3\textbackslash{\equiv}N}{\{}{D}\}{}{}{e}\}{}{1\textbackslash{\equiv}N}{1\textbackslash{\equiv}H}}
```

gives the structural formula of the fused heterocycle:

![Fused Heterocycle](image)

which is depicted by attaching a six-membered ring (\sixfuse{}{}{}|{}{}) to the bond ‘b’ of an indole nucleus.

**Combined Derivations**

Three types of derivations can be combined to draw complicated structural formulas. For example, the code

```latex
\texttt{\textbackslash{sixhetero}}\texttt{be4\textbackslash{\textbackslash{fourfuse}}{b}{D}}{}{}/\texttt{\%1s=\textbackslash{\textbackslash{\fivehetero}}{4\textbackslash{\equiv}N}\{1\textbackslash{\equiv}y\};3SB\textbackslash{\equiv}H;\%3SA\textbackslash{\equiv}COOCH\_2Ph;\%4\textbackslash{\equiv}Ph\textbackslash{\equiv}CH\_2OCO;5D\textbackslash{\equiv}O}{4D\textbackslash{\equiv}O}
```

involves a bond derivation (a 4–6 fused ring) and an atom derivation (a 5–6 spiro ring) to give the following formula:

![Combined Derivation](image)

**Synonyms**

The X YM notation system is so flexible in selecting mother skeletons that there can be several ways to draw structural formulas of the same meaning. For example, a 1,3-dioxolane derivative
can be drawn by the code,
\fiveheterov{2==0;5==0}{%  
1S==\trimethylenei{}{3==(yl);%  
1W==PhSO$_{2}$;3W==R}}{}% 

The same compound is also drawn by usual techniques as follows:
\fiveheterov{2==0;5==0}{%  
1S==\dimethylenei{}{2==(yl);1W==PhSO$_{2}$};1Sa==R} 

\fiveheterov{2==0;5==0}{%  
1G==\dimethylenei{}{2==(yl);1W==PhSO$_{2}$};1F==R} 

Conclusion

\XYMTEX (version 2.00) is regarded as an implementation of the \XYM Notation, which is a linear notation for representing organic structures. The \XYM Notation is an extension of the previous \XYMTEX command system (versions 1.00 and 1.01) and they are apparently akin to each other. However, they are conceptually different in that the former removes layout data by virtue of the newly introduced concepts of yl-function, substitution derivation, atom derivation, and bond derivation. Moreover, the \XYM Markup Language (\XYMML) has been developed as a markup language for representing organic structures. \XYMML is translated into the \XYM Notation, which, in turn, can be used to print out structural formulas by means of the new version of \XYMTEX.

References

[5] @Nifty archives, FTEX library No. 11, Item Nos. 201, 202, 204. For @Nifty archives, see http://www.nifty.ne.jp/ftex/.
[10] @Nifty archives, FTEX library No. 11, Item Nos. 385, 386.
[12] The basic items described in the \XYMTEXbook are common and applied also in \XYMTEX version 2.00. Please refer to the \XYMTEXbook, when they are used without explanations in the on-line manual for version 2.00.


[20] The system is now available from Fujita’s homepage via the Internet: http://www.chem.kit.ac.jp/fujita/fujitas/fujita.html
A detailed manual is also available from this homepage.

[21] For the designation of the bonds of perhydroanthracene, see Chapter 5 of the XYMTEXbook. Note that the younger terminal of the bond ‘a’ is designated by the letter ‘a’. The word ‘older’ or ‘younger’ is concerned with the order of numbering of vertices. For a six-membered ring, the numbering 1—2—3—4—5—6—1 shows that the terminal 1 of the bond ‘a’ (1—2) is younger, while the terminal 2 of the bond ‘a’ is older. It should be noted that the terminal 6 of the bond ‘f’ (6—1) is younger, while the terminal 1 of the bond ‘f’ is older.

[22] The \cyclohexanex command of the present distribution of XYMTEX (version 2.00) contains a bug. Until the bug is fixed, please include the following code in the preamble of your article:
\makeatletter%bug for version 2.00
\def\cyclohexanex\@ifnextchar[\{\@cyclohexanex[\{\@cyclohexanex[\}]
\makeatother

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The TUG CTAN Site Makes a Move

Jim Hefferon

In the USA, the state of Vermont has a reputation as a place where a person might go for a bit of a change. It is known as beautiful to look at (although by no means a technology backwater with a major chip-making facility); a quirky place where the natives have a little — shall we say? — personality.

All of which sounded like a good fit when the TUG CTAN site looked to relocate. The machine housing ftp://tug.ctan.org/tex-archive along with its web interface http://www.ctan.org was tired. It was originally DANTE’s ftp machine and then was donated to TUG when DANTE upgraded. And the site’s maintainer, Karl Berry, needed a new person to try their hand.

Consequently, as of June 2000, the TUG CTAN site is operating out of Vermont. Saint Michael’s College, in Colchester, has generously agreed to be its host and support the traffic. We’ve converted the machine joshua, which used to be a mirror of TUG CTAN, into a core participant in the three-site network along with cam.ctan.org and dante.ctan.org. It will of course continue to be accessed by the address ftp://tug.ctan.org/tex-archive.

I’ll be watching over the site, and I appreciate your patience as well as your feedback as I learn the ropes.

I must say that the ropes I’ve learned so far have gone much smoother because of the help of the other CTANers, especially Robin Fairbairns, Rainer Schöepf, and Reinhart Zierke. The professionalism, and the amount of work done by this team, is something to which all of the \TeX{} community is indebted.

And, of course, we all also thank Karl Berry for his years of effort in keeping the TUG site up. He has been a great help to me personally on a number of projects, and especially so in the transition period.

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http://joshua.smcvt.edu/hefferon.html
Donald Knuth's Big Dummies Guide to Visual Basic

Don Knuth finally sells out.
\TeX\ Live 5 and the \TeX\ Catalogue

The \textit{TUGboat} Team

With this issue is included the fifth edition of the \TeX\ Live CD-ROM, a collection of \TeX\ software and macros that has proved itself invaluable to \TeX\ users around the globe.

First of all, these people deserve the credit and our sincere thanks for all their contributions of hard work and time and tools:

- Sebastian Rahtz: the leader of the project, without whom \TeX\ would not be Live, at least not in this form!
- Fabrice Popineau: extensive work on the Windows setup, far beyond the call of duty, and evolving the TPM catalogue format.
- Kaja Christiansen: re-compiling all the sources of various Unix platforms, and providing feedback.
- Staszek Wawrykiewicz: great checking feedback, and co-ordination of the Polish contributions.
- The German \TeX\ Users (DANTE e.V.): providing a machine on which the master of the CD-ROM is developed and maintained.
- The Perforce company: providing a free copy of their excellent change management system, which has been used to manage the CD-ROM contents.
- Petr Olšák and Jananka Chlebíková: work on the Czech/Slovak material and documentation.
- All the other people who took the trouble to inform us of problems, checked versions of the CD, and (especially) updated their software to include licensing information.

Thanks to all!

The contents of the CD overlap a substantial subset of the contents of CTAN (the Comprehensive \TeX\ Archive Network, for anyone who is yet not aware of its existence). A strong effort has been made to include the latest version of any CTAN item that was not obsolete and was (at the time of compilation) free of restrictions on use or distribution.

Some items that appeared on earlier editions of the CD are not present on this one. This is mainly because of restrictions on those items (e.g., restrictions against redistribution without express permission, or a requirement for permission or license for non-personal use). Sentiment was strong that this edition should have “no strings attached”, that the sponsoring User Groups should be able to sell copies if they wished to non-members or that anyone obtaining a copy should be able to use or share anything on the CD without having to check on licensing requirements. License terms for items on the CD are mainly of the following form:

- public domain or unrestricted
- the \sans{\textsc{\textregistered}}\TeX\ Project Public License (LPPL); see CTAN: \url{/tex-archive/macros/latex/base/lppl.txt}.
- the GNU Public License (GPL); see \url{http://www.gnu.org/copyleft/gpl.html}.

Information about these and other licensing terms that apply to items on CTAN can be found (at CTAN) in \url{/tex-archive/help/Catalogue/licenses.html}.

Graham Williams, with the help of those submitting material to CTAN, maintains a Catalogue of these contents, including (among other things) pointers to the location of items on \TeX\ Live. For this reason, we are including a slightly abridged listing of Graham’s Catalogue here to use as an index to the CD. Items removed from the list are on neither the CD nor on CTAN. The Catalogue list was current as of the date the cd was compiled. The Catalogue is maintained as a collection of XML files, and the easiest way to find out whether a package is to use the CTAN search facility, at \url{http://www.ctan.org/search/}.

If you find any errors or omissions in the Catalogue listing on the following pages, use the CTAN search first to verify that the information wasn’t corrupted in translation. If you find an error in the online Catalogue, please inform Graham at Graham.Williams@cmis.csiro.au. In particular, the author name is missing from many entries, and licensing information is not complete. Quite a few useful packages are not yet indexed, and package descriptions often do not list important items within the package, so an inquiry to the on-line Catalogue will not get a useful reply. Users of CTAN, and, in particular, authors of packages are urged to help make this resource complete and accurate.

An adjunct to the CD is “The Treasure Chest”, a column that appears in “regular” issues of \textit{TUGboat} (i.e., not in proceedings issues, and it’s absent from the present issue as well). In this column are listed additions to CTAN since the last instalment, as well as (in some issues) a survey of a particular topic. This makes it possible to keep abreast of what is new or updated since the latest edition of \TeX\ Live, so that you can update your collection as needed.

We hope you find this year’s \TeX\ Live edition as useful as the earlier ones.

\begin{itemize}
\item The \textit{TUGboat} Team
\item \textit{TUGboat@tug.org}
\end{itemize}
a0poster Provides fonts in sizes of 12pt up to 107pt. Provides fonts in sizes of 12pt up to 107pt and also makes sure that in math formulas the symbols appear in the right size. Can also create a PostScript header file for dvips which ensures that the poster will be printed in the right size. Supported sizes are DIN A0, DIN A1, DIN A2 and DIN A3.

Author: unknown; CTAN location: macros/latex/contrib/supported/a0poster

a2ac AFM to AFM plus Composites. Enables the use of PostScript fonts while typesetting texts in languages where accented letters are used. The font doesn’t need to contain the complete alphabet of a given language; the presence of mere accents themselves (no whole accented characters) is sufficient. The configuration files of the a2ac program are independent of the PostScript font encoding and of the typesetting system encoding. The program may be used to prepare a font for any typesetting system, especially \TeX.

Author: Petr Olšák; CTAN location: fonts/utilities/a2ac

a4 Support for A4 paper sizes. Provides support for A4 paper sizes, however it is mostly superseded by the \texttt{a4paper} option of \LaTeX and by the geometry package. It does, however also define the extra option of widemargins.

Author: Nico Poppelier and Johannes Braams; CTAN location: macros/latex/contrib/supported/ntgclass

a4wide Increases width of printed area of an a4 page. This package provides an option to increase the width of the a4 page. Note however that it is superseded by geometry.

Author: unknown; CTAN location: macros/latex/contrib/supported/ntgclass

a5 Support for a5 paper size. This package provides support for a5 paper sizes. Note however that it is superseded by geometry.

Author: Mario Wolczko; CTAN location: macros/latex/contrib/supported/ntgclass

a5comb Support for a5 paper sizes. Superseded by geometry.

Author: Mario Wolczko; CTAN location: macros/latex/contrib/supported/ntgclass

aaai AAAI style.

latex3 Author: unknown; CTAN location: macros/latex209/contrib/aaai

aastex American Astronomical Society format.

latex3 Author: American Astronomical Society; CTAN location: macros/latex/contrib/supported/aastex

abbrevs Text abbreviations in \LaTeX. A \LaTeX package defining abbreviation macros, which expand to defined text and insert following space intelligently, based on context. They can also expand to one thing the first time they are used and another thing on subsequent invocations. Thus they can be abbreviations in two senses, in the source and in the document. Also includes a facility for suffixes like 1900BC and 6:00PM which correctly handles following periods.

Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

abc2mtex Notate tunes stored in abc notation. A package to notate tunes stored in an ASCII format (abc notation). One of the most important aims of abc notation, and perhaps one that distinguishes it from most, if not all, computer-readable musical languages is that it can be easily read by humans. The package produces files that can be processed with Music\TeX.

Author: Chris Walshaw; CTAN location: support/abc2mtex

abstbook Books of abstracts. A \LaTeX\ X\ 2ε class file for making “books of abstracts”, commonly used for conferences. It is based on report class, however \texttt{chapter} has been redefined and shouldn’t be used.

Author: Havlík Denis; CTAN location: macros/latex/contrib/other/misc

abstract Control the typesetting of the abstract environment. The abstract package gives you control over the typesetting of the abstract environment, and in particular provides for a one column abstract in a two column paper.

Author: Peter R. Wilson; CTAN location: macros/latex/contrib/supported/abstract

abstyles No description available.

bibtex3 Author: unknown

accents Multiple accents. A package for multiple accents with nice features concerning creation of accents and placement of scripts.

Author: Javier Bezos; CTAN location: macros/latex/contrib/supported/bezos

accfonts Includes mkt1font, vpl2vpl, CSX.def, and Norman.def.

fonts3 Author: John Smith; CTAN location: fonts/utilities/accfonts

achuset \LaTeX and \BibTeX style for American Chemical Society.

latex3 Author: Mats Dahlgren; CTAN location: macros/latex/contrib/supported/achemso
Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

achicago  Chicago Manual citations in BibTEX. Produces author-date citations based on The Chicago Manual of Style.
Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

acmconf  Association for Computing Machinery conference proceedings. This class may be used to typeset articles to be published in the proceedings of ACM (Association for Computing Machinery) conferences and workshops. The layout produced by the ‘acmconf’ class is based on the description contained in www.acm.org/sigs/pubs/proceed/pubform.doc.
Author: Juergen Vollmer; CTAN location: macros/latex/contrib/supported/acmconf

acronym  Expand acronyms at least once. This package ensures that all acronyms used in the text are spelled out in full at least once. It also provides an environment to build a list of acronyms.
Author: Tobias Oetiker and Heiko Oberdiek; CTAN location: macros/latex/contrib/supported/acronym

adfathesis  Australian Defence Force Academy thesis format.
latex3  Author: Stephen Harker; CTAN location: macros/latex/contrib/supported/adfathesis

adobe  Font metrics and macro support for many Adobe fonts.
Author: unknown; CTAN location: fonts/postscript/adobe

adobeother  Font metrics for Adobe non-standard fonts.
fonts3  Author: Sebastian Rahtz
adobestd  Font metrics for Adobe ‘standard’ fonts.
fonts1  Author: Sebastian Rahtz
adrlist  Using address lists in BibTEX.
latex3  Author: unknown; CTAN location: macros/latex/contrib/other/adrlist

advdate  Provides macros which can add a specified number of days to the current date (as specified in \today) and print it. Intended for use, for example, in invoices payable within 14 days from today etc. Has only been tested with Czech dates. A version supporting English dates is expected soon.
Author: Zdenek Wagner; CTAN location: macros/latex/contrib/other/misc

ae  Virtual fonts for PDF-files with T1 encoded CMR-fonts. A set of virtual fonts which emulates T1 coded fonts using the standard CM fonts. The package is called AE fonts (for Almost European). The main use of the package is to produce PDF files using versions of the CM fonts instead of the bitmapped EC fonts.
Author: Lars Engebretsen; CTAN location: fonts/ae

aeguill  Add several kinds of guillemets to the ae fonts. A package adding several kinds of guillemets (polish cmr, cyrillic cmr, lasy and ec) to the ae fonts. It is useful if you are using the ae fonts to produce PDF files, since the additional guillemets exist in Type 1 versions (and for free, except in ec’s case).
Author: Denis B. Roegel; CTAN location: macros/latex/contrib/supported/aeguill

afterpage  Execute command after each page. Implements a command that causes the commands specified in its argument to be expanded after the current page is output. Useful to flush floats, for example. BibTEX’s float positioning mechanism sometimes gets overloaded and all floating figures and table drift to the end of the document. One may flush out all the unprocessed floats by issuing a \clearpage command, but this has the effect of making the current page end prematurely. Now you can issue \afterpage{\clearpage} and the current page will be filled up with text as usual, but then a \clearpage command will flush out all the floats before the next text page begins.
Author: David Carlisle; CTAN location: macros/latex/required/tools

Author: Joel D. Young; CTAN location: macros/latex/contrib/supported/afthesis

aguplus  Styles for American Geophysical Union.
latex3  Author: P. W. Daly; CTAN location: macros/latex/contrib/supported/aguplus

aiaa  American Institute of Aeronautics and Astronautics. A bundle of BibTEX/BibTeX files and sample documents to aid those producing papers and journal articles according to the guidelines of the American Institute of Aeronautics and Astronautics (AIAA).
Author: Bil Kleb; CTAN location: macros/latex/contrib/supported/aiaa
algorithmic Provides an environment for describing algorithms. Within an algorithmic an number of commands are available. Options provided by the package include: letterpaper for US letter; a4offset for a modified A4 layout suitable for plastic binders that cover a part of the left margin. Also includes isodate to set the date as YYYY-MM-DD as described in ISO 8601 and DIN 5008 and akfaxps a new configuration example that uses Times/Courier.

Author: Axel Kielhorn; CTAN location: macros/latex/contrib/algorithms

alphanum Permits alphanumeric section numbering. For example, A. Introduction; III. International Law.

Author: Skip Collins; CTAN location: fonts/cm/ai

algorithmic Provides an environment for describing algorithms. Within an algorithmic a number of commands are available.

Author: Peter Williams; CTAN location: macros/latex/contrib/supported/algorithmic

algorithm Provides a floating algorithm environment designed to work with the algorithmic package.

Author: Peter Williams; CTAN location: macros/latex/contrib/supported/algorithms

altnam Defines the altnam environment which is like the verbatim environment except that \ and braces have their usual meanings. Thus, other commands and environments can appear within an altnam environment.

Author: Johannes Brahms; CTAN location: macros/latex/contrib/supported/altnam

altermath A generalised replacement for some parts of psnfss and mfnfss. Similar to psmath with the PostScript macros.

Author: Heiko Oberdiek; CTAN location: macros/latex/contrib/supported/altermath

alphanum Permits alphanumeric section numbering. For example, A. Introduction; III. International Law.

Author: Felix Braun; CTAN location: macros/latex/contrib/supported/alphanum

altnam Defines the altnam environment which is like the verbatim environment except that \ and braces have their usual meanings. Thus, other commands and environments can appear within an altnam environment.

Author: Johannes Brahms; CTAN location: macros/latex/contrib/supported/altnam

altermath A generalised replacement for some parts of psnfss and mfnfss. Similar to psmath with the PostScript macros.

Author: Heiko Oberdiek; CTAN location: macros/latex/contrib/supported/altermath

alphanum Permits alphanumeric section numbering. For example, A. Introduction; III. International Law.

Author: Felix Braun; CTAN location: macros/latex/contrib/supported/alphanum

altfont A generalised replacement for some parts of psnfss and mfnfss. Similar to psmath with the PostScript macros.

Author: Sebastian Kirsch; CTAN location: macros/latex/contrib/supported/altfont

amiweb2c An Amiga port of the complete UNIX-T\TeX\ system.

Author: Andreas Scherer; CTAN location: systems/amiga/amiweb2c

amsbsy Produce bold math symbols (AMS-$\TeX$). Produce bold math symbols (AMS-$\TeX$). Part of the AMS-$\TeX$ distribution, this package provides a command for producing bold math symbols when appropriate fonts exist, and a ‘poor man’s bold’ command that can be applied when no appropriate bold font is available. In particular, the macro \boldsymbol is defined.

Author: American Mathematical Society; CTAN location: macros/latex/required/amsbsy

amsfonts AMS-$\TeX$ fonts from the American Mathematical Society. Augments the standard set normally distributed with $\TeX$, including: extra mathematical symbols; blackboard bold letters (uppercase only); fraktur letters; subscript sizes of bold math italic and bold Greek letters; subscript sizes of large symbols such as sum and product; added sizes of the Computer Modern small caps font; cyrillic fonts (from the University of Washington); Euler math fonts.

Author: unknown; CTAN location: fonts/amsfonts

amsmath AMS-$\TeX$ -- commutative diagrams. Part of the AMS-$\TeX$ distribution, this package adapts the commutative diagram macros of AMS-$\TeX$ for use in AMS-$\TeX$.

Author: American Mathematical Society; CTAN location: macros/latex/required/amsmath

amsrefs AMS-$\TeX$ referencer. Part of the AMS-$\TeX$ distribution, this package provides a command for producing bibliographies.

Author: American Mathematical Society; CTAN location: macros/latex/required/amsrefs
Miscellaneous \LaTeX\ enhancements. A collection of loosely related files that are distributed together by the American Mathematical Society. These files are miscellaneous enhancements to \LaTeX\ whose aim is superior information structure of mathematical documents and superior printed output.

Author: American Mathematical Society; CTAN location: \texttt{macros/latex/required/amslatex}

AMS math facilities for \LaTeX. This package is the principal package in the AMS-\LaTeX\ distribution. It adapts for use in \LaTeX\ most of the mathematical features found in AMS-\TeX. (q.v.).

Author: American Mathematical Society; CTAN location: \texttt{macros/latex/required/amsfonts}

AMS symbol fonts for Plain \TeX. Defines names for all the math symbols in the AMS symbol fonts (msam and msbm). If not used with AMS-\TeX, amssymb.tex must be used with amssymb.def (q.v.).

Author: American Mathematical Society; CTAN location: \texttt{fonts/amsfonts/plain2e}

American Mathematical Society \LaTeX\ macros.

Author: Mike Piff; CTAN location: \texttt{macros/latex/contrib/supported/answers}

Antykwa Półtawskiego: a Type 1 family of Polish traditional type. A replica of Antykwa Półtawskiego font in PostScript Type 1 format – preliminary version. This font was designed in the ’twenties and the ’thirties of XX century by a Polish graphic artist and a typographer Adam Półtawski. It was widely used by Polish printinghouses as long as metal types were in use (until ca the ’sixties). Perhaps the first complete font family programmed and parametrized in METAPOST (??)

Author: J. Nowacki; CTAN location: \texttt{fonts/psfonts/polish/antyktor}

Antykwa Toruńska: a Type 1 family of a Polish traditional type. Antykwa Toruńska is a serif font designed by the Polish typographer Zygfryd Gardzielewski which have been reconstructed and digitized as Type 1.

Author: J. Nowacki; CTAN location: \texttt{fonts/psfonts/polish/antyktor}

American Psychological Association format. A \LaTeX\ class to format text according to the American Psychological Association Publication Manual (4th ed.) specifications for manuscripts or to the APA journal look found in journals like the Journal of Experimental Psychology etc. In addition, it provides regular \LaTeX\-like output with a few enhancements and APA-motivated changes.

Author: Athanassios Protopapas; CTAN location: \texttt{macros/latex/contrib/other/apa}

A \BibTeX\ style which closely follows the APA style citation, claiming to provide the closest match.

Author: Erik Meijer; CTAN location: \texttt{biblio/bibtex/contrib}

Fonts for typesetting APL programs.

Author: unknown; CTAN location: \texttt{fonts/apl}
appendix Extra control of appendices. The word ‘Appendix’ or similar can be prepended to the appendix number for article class documents. The word ‘Appendices’ or similar can be added to the table of contents before the appendices are listed. The word ‘Appendices’ or similar can be typeset as a \part-like heading (page) in the body. An appendices environment is provided which can be used instead of the \appendix command. Includes support for per chapter (or section for non-chaptered documents) appendices.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/appendix

arfonts3 MetaFont files and a \TeX\,2e package for producing and using the capital A and capital R ligature, used for the symbol of the “aspect ratio” by scientists and engineers in the field of aeronautics.

Author: unknown; CTAN location: macros/latex/contrib/other/arfonts3

arabtex Macros and fonts for typesetting Arabic.

Author: Klaus Lagally; CTAN location: language/arabtex

archaic A collection of archaic fonts. The collection includes cypriot, etruscan, greek4cbc, greek6cbe, linearb, phoenician, and runic.

Author: Peter Wilson; CTAN location: fonts/archaic

armenian A package which lets one to write in Armenian with \TeX. It can be used with a standard Latin keyboard without any special encoding and/or support for Armenian letters. It can also be used with any keyboard which uses encodings having Armenian letters in the second half (characters 128–255) of the extended ASCII table.

Author: Serguei Dachian and V. Hakobian; CTAN location: fonts/armenian

armtex A system for writing Armenian with \TeX and \EPlain. \Armtex is an Armenian system for \TeX/\EPlain(2e)/METAFONT. It can be used with a standard Latin keyboard without any special encoding and/or support for Armenian letters. It can also be used with any keyboard which uses encoding having Armenian letters in the second half (characters 128-255) of the extended ASCII table (for example ArmSCII Armenian standard).

Author: Serguei Dachian; CTAN location: language/armenian

arosgn Support for the Bengali language.

Author: Muhammad Masroor Ali; CTAN location: language/bengali/arosgn

array Arrays and tables with formatted columns. An extended implementation of the array and tabular environments which implements options to format columns. The \v option, for example, is introduced with this package.

Author: Frank Mittelbach and David Carlisle; CTAN location: macros/latex/required/tools

arrayjob Array data structures for \LaTeX. This package provides array data structures in \LaTeX, in the meaning of the classical procedural programming languages like Fortran, Ada or C, and macros to manipulate them. Arrays can be mono or bi-dimensional. This is useful for applications which require high level programming techniques, like algorithmic graphics programmed in the \TeX language.

Author: Zhuhan Jiang; CTAN location: macros/generic/arrayjob

arrow Eplain macros for arrow theoretic diagrams.

Author: Steven T. Smith; CTAN location: macros/eplain

arydshln Horizontal and vertical dashed lines. Definitions of horizontal and vertical dashed lines for the array and tabular environment. Horizontal lines are drawn by \\dashline and \cdashline while vertical ones can be specified as a part of preamble using \'. The shape of dashed lines may be controlled through style parameters or optional arguments.

Author: Hiroshi Nakashima; CTAN location: macros/latex/contrib/supported/arydshln

asaetr Transactions of the American Society of Agricultural Engineers.

Author: George Pearson; CTAN location: macros/latex/contrib/other/asaestr

ascelike Bibliography style for the American Society of Civil Engineers. A document class and bibliographic style that prepares documents in the style required by the American Society of Civil Engineers (these are unofficial files, not sanctioned by that organization, and the files specifically give this caveat). Also included is a short documentation/example of how to use the class.

Author: Matthew R. Kuhn; CTAN location: /macros/latex/contrib/supported/ascelike

ascii Support for IBM extended ASCII font.

Author: unknown; CTAN location: fonts/ascii


Author: unknown; CTAN location: fonts/astro
at A package to remove a lot of tedious typing that ends up in \TeX documents by expanding the number of short command names available. The new command names begin with the '\ character, rather than the conventional '\', so you can tell them apart.

Author: Mark Wooding; CTAN location: macros/latex/contrib/supported/mdwtools

attrib Attribution of block quotations in \TeX. A \TeX package defining \texttt{\textbackslash attrib}, which attributes block elements, for example when citing a reference after a block quotation.

Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

auctex Emacs support files for \TeX. Provides one of the best environments for \TeX/\LaTeX document production.

Author: unknown; CTAN location: support/auctex

auncial Artificial Uncial manuscript book-hand font. The auncial and allauncl packages provide Metafont fonts based on the Artificial Uncial manuscript book-hand used between the 6th and 10th century AD. The font consists of minuscules and digits, with some appropriate period punctuation marks. Both normal and bold versions are provided.

Author: Peter Wilson; CTAN location: fonts/bookhands/auncial

aurora Header files for dvips to make colour separations.

dvips3 Author: unknown

authorindex A package to generate a list of all authors cited in a document along with a list of pages where these citations occur.

Author: Andreas Wettstein; CTAN location: indexing/authorindex

autotab Generating tabular setups.

latex3 Author: unknown; CTAN location: macros/latex209/contrib/autotab

babel Multilingual support for \LaTeX.

Author: Johannes L. Braams; CTAN location: macros/latex/required/babel

generic2 Author: unknown; CTAN location: macros/latex/contrib/other/bg

backgammon Style for typesetting backgammon boards.

fonts3 Author: unknown; CTAN location: macros/latex/contrib/other/bk

background Mark text with grey background or change bar Marks text, using \TeX’s resources only (no PostScript tricks – grey background uses a shade font defined with MetaFont. Works under plain \TeX, in simple \LaTeX 2.09 documents, but probably not in \LaTeX 2\epsilon).

Author: Peter Schmitt; CTAN location: macros/generic

bakoma-fonts Computer Modern and AMS fonts in PostScript Type1 form.

Author: unknown; CTAN location: fonts/cm/ps-type1/bakoma

bakoma-games BaKoMa modules for music and games. This module includes popular macro packages described in chapters 7 (Preparing music scores: Musi\TeX) and 8 (Playing games: Chess, Xiangqi - Chinese Chess, Go, Backgammon, Bridge, Crosswords) of the ‘\LaTeX Graphics Companion’ They are precompiled for use, together with fonts and documentation, directly in BaKoMa \TeX. Fonts used by some packages are converted into formats suitable both for printing and for PDF generation. For example, for Chess the diagram fonts are converted into vector Type 3 font format. Board black squares are coded as a gray color instead of dashing. This approach gives the best results on printers and displays. Fonts for in-line notation are in Type 1 font format. For Go the special fonts are too hard to convert automatically and have been efficiently coded in Type 3 font format. For Backgammon the fonts were originally dithered as halftone, making them unsuitable for PDF. The halftone was emulated by using gray color in Type 3 fonts.

Author: Basil Malyshev; CTAN location: systems/win32/bakoma/contrib

bakoma-malvern \TeX for MS-Windows for electronic documents. Malvern is a sanserif font intended mainly for non-technical documents. It does not blend particularly well with the Computer Modern fonts. Malvern is a font family designed and implemented in MF by P. Damian Cugley. Conversion to PostScript Type 1 font format has been done by Basil K. Malyshev. It is distributed as a MS-Windows exe file which will install the fonts under already installed BaKoMa \TeX 2.11 and later.

Author: Basil Malyshev; CTAN location: systems/win32/bakoma/dat
A \TeX{} package intended for preparing Electronic Publications. The system works under MS-Windows 95/98/NT. The system includes a complete extendable GUI (Text editor, DVI Viewer, Help system), an updated version of the BaKoMa Fonts Collection, the \TeX{} processor with friends (Bib\TeX{}, MakeIndex, MetaPost, DVIPS, DVICopy), a standard compliant TDS, and an installation program. The system supports the use of scalable fonts (PostScript Type 1, PostScript Type 3, and TrueType) and the importing of PostScript graphics into documents. In advance, the system supports import of JPEG, PNG, GIF, TIFF, HPGL, DXY, PCX, MSP, BMP, and WMF graphical formats. The system supports generation of PDF and printing on any printer supported by a driver under MS-Windows. The system efficiently supports multiple TEXMF trees.

Author: Basil Malyshev; CTAN location: systems/win32/bakoma

No description available.

Fonts for making barcodes.

Diagram macros by Michael Barr.

Definitive source of Plain \TeX{} on CTAN. This archive is mirrored directly from labrea:/tex/lib/.

Symbol font including many Zapfdingbats. An NFSS-interface to the symbol font bbding containing many of the Zapfdingbats fonts.

Diagram macro by Michael Barr.

Convert a \LaTeX{} .bbl file to formatted html code.

Blackboard variant fonts for Computer Modern, with \LaTeX{} support.

Sans serif blackboard bold. A geometric sans serif blackboard bold font, for use in mathematics

\TeX{}-related bibliographies and Bib\TeX{} styles. Nelson Beebe’s collection of \TeX{}-related bibliographies and Bib\TeX{} style files.

Typeset Belgian letters. A small class for typesetting Belgium letters.

Free replacement for basic MathTime fonts.

Typeset a \LaTeX{} document with the Concrete fonts designed by Don Knuth and used in his book “Concrete Mathematics”.

Support for Bezier curves. A package providing additional facilities for drawing linear, cubic, and rational quadratic Bezier curves. The multiple package provides a command for multiplication of a length without numerical overflow.

Packages by Javier Bezos. Tools for math accents; tensorial indexes; tools for easy entry of Spanish index entries.

A package to assist in making bibliographical lists common in the arts.

Bib\TeX{} bibliography manager for MS-Windows and MS-DOS.

\LaTeX{} support for HTML files. Bibhtml consists of a Perl script and a \LaTeX{} style file, which together allow you to compile a bibliography for a collection of HTML files. The references in the text are linked directly to the corresponding bibliography entry, and if a URL is defined in the entry within the \LaTeX{} database file, then the generated bibliography entry is linked to this. The \LaTeX{} style file is plainhtml.bst, and is derived from the standard plain.bst.

Author: Norman Gray; CTAN location: biblio/bibtex/contrib/bibhtml
biblio  An extensive collection of \LaTeX\ bibliographies on many topics (linux, java, sas, s-plus, amongst many others) and for many journals (lecture notes in computer science acm, byte, computer, and much, much, more.). Each includes a \LaTeX\ wrapper file to typeset the bibliography.
Author: Nelson H. F. Beebe; CTAN location: info/biblio

biblios  A MS-Windows95 tool that uses the CGI (common gateway interface) protocol so that \LaTeX\ files can be managed remotely using an HTTP-server on the server side and a Web-browser such as Netscape on the client side.
Author: Anders Moller; CTAN location: systems/msdos

biblist \LaTeX\ styles by Joachim Schrod.
latex3  Author: Joachim Schrod; CTAN location: macros/latex209/contrib/biblist
bibtex  Bibliography management for \LaTeX\.
Author: Oren Patashnik; CTAN location: biblio/bibtex/distribs
bibtex8bit  A fully 8-bit adaptation of \LaTeX\ 0.99.
Author: Niel Kempson; CTAN location: biblio/bibtex/8-bit

bibtool  Command line manipulation of \LaTeX\ files. Pretty-printing data bases; Syntactic checks with error recovery; Semantic checks. Sorting and merging of data bases; Generation of uniform reference keys according to predefined rules or according to user specification; Selecting references used in one publication which are found by analyzing an aux file; Controlled rewriting of fields utilising regular expressions to specify the rewriting rules; Macro (String) expansion to eliminate the need of extra string definitions; Collecting statistics about one or more data bases.
Author: Gerd Neugebauer; CTAN location: biblio/bibtex/utils/bibtool

bibtex2  Include multiple ‘by topic’ bibliographies in a document. A \LaTeX\ package to include several bibliographies covering different ‘topics’ or bibliographic material into a document (e.g., one bibliography for primary literature and one for secondary literature). Provides commands to include either all references from a .bib file, only the references actually cited or those not cited in your document. You’ll have to construct a separate .bib file for each bibliographic ‘topic’, which will have to be processed separately by \LaTeX\.
Author: Pierre Basso and Stefan Ulrich; CTAN location: macros/latex/contrib/supported/bibtopic

bibunits  Multiple bibliographies in one document. A style to generate separate bibliographies for different units (parts) of the text (chapters, sections or bibunit-environments). The style will separate the citations of each unit of text into a separate file to be processed by \LaTeX\.
Author: Jose Alberto and Thorston Hansen; CTAN location: macros/latex/contrib/supported/bibunits

bibweb  Automatically retrieve bibliography from MathSciNet. A utility to automatically retrieve mathematical bibliographical information, in \LaTeX\ format, from the American Mathematical Society’s MathSciNet database. More precisely, it acts as a front-end to \LaTeX\; it converts any citations that \LaTeX\ can’t find into queries to the MathSciNet database, it carries out those queries, and returns the answers in \LaTeX\ format. Included in the package are: the perl script bibweb, documentation (in various formats), and a test file.
Author: John H. Palmieri; CTAN location: biblio/bibtex/utils/bibweb

bidstobibtex  A tool to take input from a BIDS email message (generated using one of the downloading formats) to \LaTeX\.
Author: Anthony Stone; CTAN location: biblio/bibtex/contrib/bids

bigdelim Big delimiters.
latex3  Author: Piet van Oostrum; CTAN location: macros/latex/contrib/supported/multirow
bigstrut  Big struts.
latex3  Author: Piet van Oostrum; CTAN location: macros/latex/contrib/supported/multirow
bits  Modular environments in \LaTeX\.
latex3  A \LaTeX\ package that provides a programmer’s interface for a new idea called a bit, which is like an environment but has a title, author, and other attributes usually only associated with the document environment.
Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein/unsupported
bitstream Font metrics, and macro support in \LaTeX 2\epsilon, for the free Bitstream fonts.
Author: unknown; CTAN location: fonts/pfonts/bitstream

bizcard Typeset business cards.
latex3 A demonstration of the various blackboard bold typefaces available for \TeX (bbm, bbold, doublestroke, and m3bm), including a PostScript file to preview them.
Author: Olaf Kummer; CTAN location: documentation/blackboard

blkarray Extended array and tabular. A package in its early stages of development which implements an environment, blockarray, that may be used in the same way as the array or tabular environments of standard \LaTeX, or their extended versions defined in array.sty. If used in math-mode, blockarray acts like array, otherwise it acts like tabular. The main feature of this style is that it uses a new method of defining column types.
Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

blkcntrl Block-element hooks in \LaTeX. A \LaTeX package that inserts hooks into certain block elements and footnotes. Also provides a command to set block quotations one size smaller than the main text.
Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

block A block letter style for the letter class. A style file for use with the letter class that overwrites the \opening and \closing macros so that letters can be styled with the block letter style instead of the default style. Thus, the return address, the closing, and the signature appear flushed on the left margin.
Author: Chua Eng Huang; CTAN location: macros/latex/contrib/other/misc

blu BLUe’s format system. A format used in ‘Publishing with \TeX’.
Author: Kees van der Laan; CTAN location: macros/blu

blue Kees van der Laan’s BLUe format, a concise but expressive document preparation system modelled on Knuth’s manmac.
Author: Kees van der Laan; CTAN location: macros/blu

formats3 Kees van der Laan’s BLUe format, a concise but expressive document preparation system modelled on Knuth’s manmac.
Author: Kees van der Laan; CTAN location: macros/blu

bookhands A collection of book-hand fonts.
Author: Peter Wilson; CTAN location: fonts/bookhands

booktabs Nicer layout of tables.
latex3 Author: Simon Fear; CTAN location: macros/latex/contrib/supported/booktabs

borceux Diagram macros by Francois Borceux.

graphics3 A collection of packages including: dblfont; graphfig; mathcmd; mathenv; quotes; sobolev.
latex3 Author: Francesco Bosisio; CTAN location: macros/latex/contrib/supported/bosisio

boxedminipage A package for producing boxed minipages.
Author: Mario Wolczko; CTAN location: macros/latex/contrib/other/misc

braille Support for braille.
Author: William Park; CTAN location: macros/latex/contrib/other/misc

braket Dirac bra-ket and set notation. Provides macros to typeset bra-ket notation, as well as set specifiers. Each macro comes in a fixed-size version and an expanding version.
Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

brclc Support 16-bit (double) calculations in \Euler. The following calculations are implemented: \+, \-, \*, \/, \-, \exp, \log, \ln, \sin, \cos, \tan, \asin, \acos, \atan. The output can be formatted and rounded. The program brclc is a preprocessor so it must be run before you run \Euler! It is recommended using a shellscript like ‘testclc’ which does this for you. The new command \clc{arg} is defined. The program brclc outputs a file called \*.clc in which \Euler finds the definitions needed to complete the \clc{arg}-command. The \Euler-commands file inclusion commands are also supported.
Author: Bernd Radgen; CTAN location: macros/latex/contrib/other/misc

bridge Macros for typesetting bridge diagrams.
latex3 Author: Kees van der Laan; CTAN location: macros/latex209/contrib/misc/bridge
BrushScript fonts including pbsi, a Type-1 PostScript font containing BrushScript Italic characters.

Perli library for parsing and processing BibTeX files. Includes a C library called btparse and a perl library Text::BibTeX. Features include: robust, efficient lexical scanning and parsing of BibTeX files; excellent error detection, reporting, and recovery in the parser; full processing of BibTeX strings (macros expanded, whitespace collapsed, strings concatenated); handles all common entry types (@comment, @preamble, @string, and everything else) with ease, and gives you full access to the contents of all entry types; support for processing author names identically to BibTeX; preliminary support for imposing/enforcing a particular database structure.

Create illustrations for network protocol specifications. The bytefield package helps the user create illustrations for network protocol specifications and anything else that utilizes fields of data. These illustrations show how the bits and bytes are laid out in a packet or in memory.

A TeX macro package for easy typesetting of programs in C and Pascal. Program sources in C and Pascal can also be input.

A utility to prettyprint C and C++ source files using cweb.

Adds infix expressions to perform arithmetic in the \LaTeX commands \setcounter, \addtocounter, \setlength, and \addtolength.

A package for calendars and timetables. Includes, for example, a package which organizes date items in a format suitable for conference schedules, itineraries, academic teaching timetables and the like.

Calligraphic font. Calligraphic font in the handwriting style of the author, Peter Vanroose. A \LaTeX package for using this font is available in fundus.

Nicer calligraphic letters.


Comprehensive bibliography manager (prototype citation engine for \LaTeX). Will become \LaTeX 1.0 on release. Under development.

Place lines through maths formulae. A package to draw diagonal lines and arrows with limits through math formulas.

Captions on more than floats. Defines a command \captionif for putting a caption to something that’s not a float.

Extends caption capabilities for figures and tables, such as the caption width, style, font. Many aspects are tunable as options.

Newer version of the caption package. Extends caption capabilities for figures and tables, such as the caption width, style, and font. Many aspects are tunable as options.

Miscellaneous small packages by David Carlisle.

Author: David Carlisle; CTAN location: macros/latex/contrib/support/carlsile
Numbered cases environment

Define numcases: math cases with equation numbers. Also define subequation numbering.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc
cases

typeset Cree/Inuktitut in Canadian Aboriginal Syllabics.
casy

Author: Ivan A Derzhanski; CTAN location: language/casyl
casyl

catalogue

A catalogue of what’s available on CTAN. The catalogue is an extensive database of many, most, and one day, maybe, all, packages available for \TeX/. It started out as an example of using Bib\TeX, but is now fully XML and XSL based. The Catalogue is best browsed online, but refer to xml-catalogue for a nice example of using xm1tex. Oh, by the way, you are currently looking at the \TeX{} Catalogue, if you hadn’t noticed.

Author: Graham Williams; CTAN location: help/Catalogue
catalogue
doc2

A filter which converts binary MS-Word files into ASCII text, optionally with some \TeX{} control sequences (for those characters, which have special meaning for \TeX{}).

Author: Victor Wagner; CTAN location: support/catdoc
catdoc

catalogue

A DVI to plain text translator. A DVI to plain text translator capable of generating ASCII, Latin-1 and UTF-8 (Unicode) output. It aims to become a superior replacement for the dvi2tty utility; this version outperforms it in some areas and is inferior to it in other areas.

Author: Anti-Juhani Kajianaho; CTAN location: dviware/catdvi
catdvi

MetaFont source files for a complete set of Greek fonts.

cbgreek

Author: Claudio Beccari; CTAN location: language/greek/cb/mf
cbgreek

Polish extension of Computer Concrete fonts (MetaFont sources).

contdoc

Author: Boguslaw Jackowski and M. Rycko; CTAN location: language/polish
contdoc

Continuation headings and legends for floats. A package providing commands for ‘continuation’ headings, unnumbered captions, and also a non-specific legend heading for any environment. Methods are also provided to define captions for use outside float (e.g., figure and table) environments, and to define new float environments and List of Floats.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/ccaption
ccaption

Support for Concrete text and math fonts in \LaTeX. \LaTeX{} font definition files for the Concrete files support OT1, T1, TS1, and Concrete math including AMS fonts (Ulrik Vieth’s concmath).

Author: Walter Schmid; CTAN location: macros/latex/contrib/supported/ccfonts
ccfonts

Macros and fonts for typesetting Chinese Chess board diagrams.

cchess

Author: unknown
cchess

Typeset CD covers.

cdcover

Author: Christian Holm; CTAN location: macros/latex/contrib/other/cd-cover
cdcover

take use text and typeset it to fit a CD label.

Author: Victor Eijkhout; CTAN location: macros/generic/eijkhout
cdlabeler

Cellular table construction.

cellular

Author: J. E. Pittman; CTAN location: macros/plain/contrib/cellular
plain3

Compression tools for PostScript. Compression utilities for PostScript files, written in AWK and PostScript (gawk and GhostScript) to compress bitmap EPS files up to 10 percent of the original size. Well documented.

Author: BOP; CTAN location: support/pstools/cep
cep

Identify areas of text to be marked with changebars with the \texttt{\textbackslash{}cbstart} and \texttt{\textbackslash{}cbend} commands.

Author: Johannes Braams; CTAN location: macros/latex/contrib/supported/changebar
changebar


Author: Robin Fairbairns; CTAN location: macros/latex/contrib/other/misc
chappg

Separate bibliography for each \texttt{\textbackslash{}include} file.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/supported/cite
chapterbib
chemcono Support for compound numbers in chemistry documents. A \LaTeX{} style file for using compound numbers in chemistry documents. It works like \cite{} and the \bibliography{} instead. It allows compound names in documents to be numbered and does not affect the normal citation routines.

Author: Stefan Schulz; CTAN location: macros/latex/contrib/supported/chemcono

chemsym Macros for typing chemical symbols.

Author: Mats Dahlgren; CTAN location: macros/latex/contrib/supported/chemsym

chec Adobe chess font.

fonts Author: Adrian Clark; CTAN location: fonts/chech
cherokee Fonts for Cherokee scripts.

fonts Author: Alan M. Stanier; CTAN location: fonts/cherokee
cheoss Fonts for typesetting chess boards.

fonts Author: Piet Tutelaers; CTAN location: fonts/chess
chicago A bibliography style.

Author: Glenn Paulley; CTAN location: biblio/bibtex/contrib

china2e A \LaTeX{} package to produce Chinese calendar symbols of the old Chinese lunisolar calendar.

Author: Udo Heyl; CTAN location: macros/latex/contrib/supported/china2e

chtex This program catches some typographic errors \LaTeX{} overlooks, and can be viewed as Lint for \LaTeX{}.

Author: Jens T. Berger Thielemann; CTAN location: support/chtkex

chngpage Change the page layout in the middle of a document. Provides commands to change the page layout in the middle of a document (e.g., make the textblock wider or narrower, and/or longer or shorter, and/or shift it vertically or horizontally).

Author: Peter R Wilson; CTAN location: macros/latex/contrib/supported/misc

circ Macros for typesetting circuit diagrams. Several electrical symbols like resistor, capacitor, transistors etc., are defined. The symbols can be connected with wires.

Author: Sebastian Tannert; CTAN location: macros/generic/diagrams/circ

circle Provides circles in math mode that can be used for the nextstep operator of temporal logic, in conjunction with \Box{} and \Diamond{} (latexsym) or \square{} and \lozenge{} (amssymb). \LaTeX{} circles \circ{} and \bigcirc{} are not of the right size. The circles are taken from the font lcircle10. The package contains some hacks to approximate the right size and this solution is definitely not sufficient to give a high quality output.

Author: Klaus Georg Barthelmann; CTAN location: macros/latex/contrib/other/misc

circuit-macros M4 Macros for Electric circuit diagrams. A set of macros for drawing high-quality electric circuits containing fundamental elements, amplifiers, transistors, and basic logic gates to include in \TeX{}, \LaTeX{}, or similar documents. Some tools and examples for other types of diagrams are also included. The macros evaluate to drawing commands in the pic language, which is very easy to understand and which has a good power/complexity ratio. Pic contains elements of a simple programming language, and is well-suited to line drawings requiring parametric or conditional components, fine tuning, significant geometric calculations or repetition, or that are naturally block structured or tree structured. The m4 and pic processors are readily available for Unix and PC machines.

Author: Dwight Aplevich; CTAN location: graphics/circuit_macros

cirth Fonts for Cirth.

fonts Author: Jo Grant; CTAN location: fonts/cirth

cite Supports compressed, sorted lists of numerical citations.

latex2 Author: Donald Arseneau; CTAN location: macros/latex/contrib/supported/cite
citeref Support backward references in the bibliography.

latex Author: Olaf Maibaum; CTAN location: macros/latex/contrib/other/citerref
cjk-fonts Fonts to go with the cjk macro package for Chinese/Japanese/Korean with \LaTeX{} 2e.

Author: Werner Lemberg; CTAN location: fonts/CJK

cjk A macro package which enables the use of Chinese/Japanese/Korean with \LaTeX{} 2e.

lang3 Author: Werner Lemberg; CTAN location: language/chinese/CJK

cm Computer Modern fonts.

fonts1 Author: Donald Knuth; CTAN location: fonts/cm
cmactex  \TeX for the Macintosh.  This port of \TeX for the Macintosh includes Omega and pdftex.
Author: Tom Kiffe; CTAN location: systems/mac/cmactex

cmbright  Support for CM Bright fonts in \LaTeX.  A family of sans serif fonts for \TeX and \LaTeX, based on
Donald Knuth’s CM fonts. It comprises OT1, T1 and TS1 encoded text fonts of various shapes as well
as all the fonts necessary for mathematical typesetting, incl. AMS symbols. This collection provides all
the necessary files for using the fonts with \LaTeX.
Author: Walter Schmidt; CTAN location: fonts/cmbright

cmfonts2  Computer Modern fonts extended with Russian letters, in MetaFont sources and ATM Compatible.
Author: N. Glonty, A. Samarini; B. K. Malyshev; CTAN location: fonts/cyrillic/cmfonts2

cmfonts3  Alternative Russian encoding support.
Author: Alexander Harin; CTAN location: fonts/cyrillic/cmfonts3

cmdtrack  Check used commands.  Aids in the task of checking whether a command defined in a document
preamble is actually used somewhere in the document. If you add a statement to use the package
cmdtrack to the preamble of your document, all ‘newcommand’ and similar statements between that
point and the beginning of the document will be marked for logging. At the end of the document a
report of the command usage will be printed in the \TeX log, for example: mdash was used on line 25;
ndash was never used.
Author: Michael Downes; CTAN location: macros/latex/contrib/supported/cmdtrack

cmextra  Extra Computer Modern fonts, from the American Mathematical Society.
Author: American Mathematical Society; CTAN location: macros/latex/contrib/cmextra

cmolddig  Virtual font setup for using old style digits.  This package is a virtual font setup for using old style
digits by default with the OT1 encoded Computer Modern Roman upright fonts. The eco package does
the same job for the T1 encoded EC fonts and is generally much better because the EC fonts are like
that; but then again, OT1 encoded cmr is available for free in TrueType and PS Type 1 formats and
has its uses in pdf files as a result.
Author: Rowland McDonnell; CTAN location: fonts/cmolddig

cmpica  A Computer Modern Pica variant.
Author: Don Hosek; CTAN location: fonts/cmpica

cmps  Versions of PostScript fonts, from Blue Sky and Y&Y.
Author: unknown; CTAN location: fonts/cm/ps-type1/bluesky

cmsd  A package including additional fd files.  Its purpose is to provide an alternative interface to the CM
Sans Serif boldface fonts. The EC (T1, Cork) encoded versions of the ‘CM Sans Serif boldface extended’
fonts differ considerably from the traditionally (OT1) encoded ones: At large sizes, >10pt, they have
thinner strokes and are much wider. At 25pt they are hardly to be recognized as being ‘boldface’. This
package attempts to make these T1 fonts look like the traditional ones did. You do not need any new
fonts; the package just changes the way \LaTeX makes use of the current ones.
Author: Walter Schmidt; CTAN location: macros/latex/contrib/supported/cmsd

cmptt  A handling for the ‘cmptt’ font better.  It introduces a special encoding for the font, and
provides a command which allows you to use all the characters without the disadvantages of verbatim
text.
Author: Mark Wooding; CTAN location: macros/latex/contrib/supported/cmptt

cmyk-hax  A \TeX macro package for colour manipulation (using PostScript).  A set of \TeX macros supporting
colour separation and substitution using the \TeX/PostScript environment. Requires dvips and color
ordvi.tex/sty from the standard dvips distribution. The current version enables processing of CMYK
bitmaps.
Author: BOP; CTAN location: macros/latex/PS/cmyk-hax

code128  A set of barcode macros for the Code 128 standard.
Author: Petr Olšák; CTAN location: macros/latex/contrib/code128

codepage  Support for variant code pages.
Author: Alain Aubord; CTAN location: macros/latex/contrib/support/codepage

color  Allows text and page background colors to be set.  For documentation see grfguide.
Author: David Carlisle; CTAN location: macros/latex/required/graphics

coloresep  Color separation.  Support for colour separation when using dvips.
Author: Sebastian Rahtz
colortab Shade cells of tables and \halign. Lets you shade or color the cells in the alignment environments such as \halign and \LaTeX’s tabular and array environments.

Author: Timothy Van Zandt; CTAN location: macros/generic/colortab

colorbl Add colour to \LaTeX tables. Allows rows and columns to be coloured, and even individual cells.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

combine Bundle individual documents into a single document. The combine class lets you bundle individual documents into a single document, such as when preparing a conference proceedings. The auxiliary combinet package puts the titles and authors from \maketitle commands into the main document’s Table of Contents. The package cooperates with the abstract and titling packages.

Author: Peter R. Wilson; CTAN location: macros/latex/contrib/supported/combine

comma Formats a number by inserting a comma. A flexible package that allows commas (or anything else) to be inserted every three digits in a number, as in 1,234.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

comment Selectively include/exclude portions of text. Selectively include/exclude pieces of text, allowing the user to define new, separately controlled, comment versions.

Author: Victor Eijkhout; CTAN location: macros/latex/contrib/other/comment

compsci Document (\LaTeX) programming with \LaTeX. Document (\LaTeX) programming with \LaTeX. A \LaTeX package useful whenever writing about programming, but especially when writing about \LaTeX and especially when used as a supplement to the \latexdoc class to document \LaTeX macros in a literate programming style with \dtx files.

Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

concmath Concrete Math fonts. \LaTeX package and font definition files to access the Concrete math fonts, which were derived from Computer Modern math fonts using parameters from Concrete Roman text fonts. (\LaTeX: fonts/concmath)

Author: Ulrik Vieth; CTAN location: macros/latex/contrib/other/concmath

concrete A class which provides the necessary macros to prepare a (classical) concert programme.

Author: unknown; CTAN location: macros/latex/contrib/supported/concprog

concrete-wrap A wrapper to load up the appropriate packages to use the concrete fonts.

Author: Jim Hefferon; CTAN location: macros/latex/contrib/other/misc

cooking Typeset recipes.

Author: Axel Reichert; CTAN location: macros/latex/contrib/supported/cooking

corelpak A small perl script to install the pfb and afm files that Corel sells with their products but had to be inserted and renamed by hand.

Author: unknown; CTAN location: fonts/psfonts/corelpak/contrib

contour Print a coloured contour around text. This package generates a colored contour around a given text in order to enable printing text over a background without the need of a color box around the text.

Author: Harald Harders; CTAN location: macros/latex/contrib/supported/contour

count1to Set count1 to count9. A \LaTeX package which sets count1 to count9, which can be used to select certain pages with a driver. Also provides access to the number of pages of the document. Uses the everyshi package.

Author: unknown; CTAN location: fonts/psfonts/corelpak/contrib

covington Linguistic support. Numerous minor \LaTeX enhancements for linguistics, including multiple accents on the same letter, interline glosses (word-by-word translations), Discourse Representation Structures, and example numbering.

Author: Michael Covington; CTAN location: macros/latex/contrib/supported/covington
croatian  Fonts for typesetting Croatian scripts.
lang3  Author: Darko Zubrinic; CTAN location: language/croatian

crop  Support for cropmarks. A package providing corner marks for camera alignment as well as for
latex3  trimming paper stacks, and additional page information on every page if required. Most macros are
easily adaptable to personal preferences.
Author: Melchior Franz; CTAN location: macros/latex/contrib/supported/crop

crosswd  Macros for typesetting crossword puzzles. Brian Hamilton Kelly’s crosswd package updated to run
latex3  with \TeX{}\textsuperscript{2}ε.
Author: Brian Hamilton Kelly and Frank Mittelbach; CTAN location: macros/latex/contrib/other/crosswd

cryst  Font for symmetry elements in crystallography.
latex3  Author: Ulrich Mueller; CTAN location: fonts/cryst

csffonts  Czech/Slovak-tuned MetaFont Computer Modern fonts.
fonts2  Author: unknown

cslatex  \TeX{} support for Czech/Slovak typesetting.
lang2  Author: unknown

csplain  Plain \TeX{} support for Czech/Slovak typesetting.
lang2  Author: unknown

cspsfonts  Czech and Slovakian PostScript fonts.
fonts2  Author: unknown

cstug  No description available.
doc3  Author: unknown

csx  Documentation for the CS/CSX documents on MS-DOS. Documentation for the CS/CSX 8-bit
transliteration scheme, \TeX{}\textsuperscript{2}ε input encoding definition file, and screen drivers for viewing CS/CSX
documentation on DOS boxes.
Author: Anshuman Pandey; CTAN location: fonts/csx

cubib4tex  Tibetan for \TeX{} and \TeX{}\textsuperscript{2}ε. A package using a modified version of Sirlin’s Tibetan font. An
advantage of this Tibetan implementation is that all consonant clusters are formed by \TeX{} and
Metafont. No external preprocessor is needed.
Author: Oliver Corff; CTAN location: language/tibetan/cubib

currvita  Package for typesetting a curriculum vitae.
latex3  Author: Axel Reichert; CTAN location: macros/latex/contrib/supported/currvita

cursor  Creates a simple L-shaped ‘cursor’ in a math environment to mimic what one might see on a computer
screen.
latex3  Author: Piet van Oostrum; CTAN location: macros/latex/contrib/supported/cursor

curves  Draws curves in the standard \TeX{} picture environment
using parabolas between data points with continuous slope at joins. For circles and arcs uses up to
16 parabolas. Also draws symbols or dash patterns along curves. Equivalent to technical pens with
compasses and French curves. Curves consist of short secants drawn by overlapping disks or line drawing
\specials selected by package options.
Author: Ian Maclaine-cross; CTAN location: macros/latex/contrib/supported/curves

custom-bib  Customised \LaTeX{} styles. Package generating customized \LaTeX{} bibliography styles from a
bibtex2  generic file using docstrip. Includes support for the Harvard style.
Author: Patrick W. Daly; CTAN location: macros/latex/contrib/supported/custom-bib

cwebbin  CWB for ANSI-C/++ compilers on UNIX/Linux, MS-Windows, and Amiga. A highly portable
and slightly extended version of cweb for Unix, MS-Windows32, and Amiga (and possibly other
operating systems). \TeX{} macros and CWB macros are provided for German, French, and Italian
program documentation on any machine. Comes with binaries. Note that the file cwebbin-p14.tar.gz
contains Amiga binaries that are not found in later versions.
Author: Andreas Scherer; CTAN location: web/c_cpp/cwebbin

cweb-hy  Insert hyperlinks for included files.
Author: Enrique Melendez; CTAN location: macros/latex/contrib/supported/cweb/contrib/cweb-hy
CWEBx is a system for Structured Software Documentation in C. The CWEBx system is a derivative of the CWEB system by Sylvio Levy and Donald E. Knuth, who originally conceived the idea of Literate Programming; CWEBx is a compatible extension of CWEB.

Author: Marc van Leeuwen; CTAN location: web/c_cpp/cwebx

cwpuzzle Typeset crossword puzzles.

Author: Gerd Neugebauer; CTAN location: macros/latex/contrib/other/gene/crossword

cyriot A script which was used on Cyprus for writing Greek. The cyriot package provides a Metafont version of a syllabic script which was used on Cyprus for writing Greek. The script was in use between approximately the tenth and third centuries BC. It is one in a series of archaic fonts.

Author: Peter Wilson; CTAN location: fonts/archaic/cyriot

cyrillic Cyrillic support.

lang2 Author: unknown

cyrtug The CyrilTUG distribution for emTeX.

Author: Michel Goossens; CTAN location: systems/msdos/emtex-contrib/cyrtug

czech Typeset Czech documents.

Author: unknown; CTAN location: macros/latex/required/babel

dancers Font for the Sherlock Holmes 'Dancing Men'.

fonts3 Author: Alan M. Stanier; CTAN location: fonts/dancers

dante-src Contains the source code for a \TeX{} installation under UNIX (\TeX{}, current release of \LaTeX{}, MetaFont, \BibTeX{}, MakeIndex, drivers for X11, HP LaserJet and PostScript).

Author: unknown; CTAN location: systems/unix/dante-src

dates Macros for parsing date strings.

Author: Frank Bennett; CTAN location: macros/latex/contrib/supported/dates

dblfont A package intended for generating commands that print letters in the blackboard-bold font (which is often used for the numerical sets, for example).

Author: Francesco Bosisio; CTAN location: macros/latex/contrib/supported/bosisio

dbprocess Parse the output from a database, delimited by either a tab or comma, and apply a user-defined macro to each line.

Author: Victor Eijkhout; CTAN location: macros/generic/eijkhout

dcolumn Align on the decimal point of numbers in tabulars.

Author: David Carlisle; CTAN location: macros/latex/required/tools

dcounter Supports dynamic counters. Counters declared as dynamic are created at the time of their first use and they receive at that moment the count style which was established by the \countstyle{} command. The special use of the \countstyle{} command with an optional parameter allows the modification of the subordination of existing counters.

Author: A. I. Rozhenko; CTAN location: macros/latex/contrib/supported/ncctools

default A style to help provide default parameters for \TeX{} macros.

Author: Zhuhan Jiang; CTAN location: macros/generic

delarray Delimiters for arrays. Add delimiters (parentheses etc.) around arrays (nesting brackets are automatically inserted).

Author: David Carlisle; CTAN location: macros/latex/required/tools

deque Flexible numbering of equations. Provides a more flexible numbering of equations, subequations, and 'recycled' equations, including 'partial' equation numbers ('3a', '3b', etc.).

Author: Mats Dahlgren; CTAN location: macros/latex/contrib/supported/deleq

delimtxt Read and parse text tables. This experimental package can read and parse text tables delimited by user-defined tokens (e.g., tab). It can be used for serial letters and the like, making it easier to export the data file from MS-Excel/MS-Word

Author: Bjørn Pedersen; CTAN location: macros/latex/exptl/delimtxt

devanagari Typesetting Devanagari. Frans Velthuis' preprocessor for Devanagari text, and fonts and macros to use when typesetting the processed text.

Author: Anshuman Pandey, Frans Velthuis, John Smith, Dominik Wujastyk and François Patte; CTAN location: language/devanagari

dialogl Macros for constructing interactive \BibTeX{} scripts.

latex3 Author: unknown; CTAN location: macros/latex/contrib/supported/dialogl
dialogue \texttt{latex3} \texttt{Quote short scripted dialogue in \LaTeX{}. A \LaTeX{} package defining the dialogue environment for citing short passages of scripted dialogue.}

\texttt{Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein}

dichokey \texttt{Construct dichotomous identification keys. The package can be used to construct dichotomous identification keys (used especially in biology for species identification), taking care of numbering and indentation of successive key steps automatically. Run the example file!}

\texttt{Author: Nico Dam; CTAN location: macros/latex/contrib/supported/dichokey}

dinat \texttt{Bibliography style for German texts. Bibliography style files intended for texts in german. They draw up bibliographies in accordance with the german DIN 1505, parts 2 and 3. For more information see the included documentation.}

\texttt{Author: Helge Baumann; CTAN location: biblio/bibtex/contrib/german/dinat}

dinbrief \texttt{German letter DIN style. Implements a document layout for writing letters according to the rules of DIN (Deutsches Institut für Normung, German standardization institute). A style file for \LaTeX{} 209 (with limited support of the features) is part of the package. Since the letter layout is based on a German standard, the user guide is written in German, but most macros have English names from which the user can recognize what they are used for. In addition there are example files showing how letters may be created with the package.}

\texttt{Author: Klaus Dieter Braune and Richard Gussmann; CTAN location: macros/latex/contrib/supported/dinbrief}

directory \texttt{Address book. A package for \LaTeX{} and \BibTeX{} that facilitates the construction, maintenance and exploitation of an address book-like database.}

\texttt{Author: Christophe Geuzaine; CTAN location: biblio/bibtex/contrib/directory}

dn2 \texttt{Fixes for devanagari. A pre-processor to fix problems with using devanagari font with German language extensions.}

\texttt{Author: Klaus-J. Wolf; CTAN location: language/devanagari/contrib/dn2}

doc \texttt{Format \LaTeX{} documentation. Contains the definitions that are necessary to format the documentation of package files (Literate \LaTeX{}) which incorporate both the documentation and the code.}

\texttt{Author: Frank Mittelbach; CTAN location: macros/latex/base}

docmfp \texttt{Document non-\LaTeX{} code. Extends the doc package to cater for documenting non-\LaTeX{} code, such as MetaFont or MetaPost, or other programming languages.}

\texttt{Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/docmfp}

docstrip \texttt{Remove comments from file. Makes a package documentation file smaller by removing comments and other sections of the document conditionally.}

\texttt{Author: \LaTeX{} Project Team; CTAN location: macros/latex/base}

dotlessi \texttt{Provides dotless i's and j's for use in any math font.}

\texttt{Author: Javier Bezos; CTAN location: macros/latex/contrib/supported/bezos}

dotlessj \texttt{Generates a dot-less j.}

\texttt{Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle}

dotseqn \texttt{Flush left equations with dotted letters to the numbers.}

\texttt{Author: Donald Arseneau; CTAN location: macros/latex/contrib/misc}

doublestroke \texttt{A font based on Computer Modern Roman useful for typesetting the mathematical symbols for the natural numbers (N), whole numbers (Z), rational numbers (Q), real numbers (R) and complex numbers (C).}

\texttt{Author: Olaf Kummer; CTAN location: fonts/doublestroke}

draftcopy \texttt{Identify draft copies. Places the word DRAFT (or other words) in light grey diagonally across the background (or at the bottom) of each (or selected) pages of the document.}

\texttt{Author: Juergen Vollmer; CTAN location: macros/latex/contrib/supported/draftcopy}

drafthead \texttt{Prints a header on each page including date and time and the string DRAFT.}

\texttt{Author: Stephen Page; CTAN location: macros/latex209/contrib/misc}

drama \texttt{Production-style stage script in \LaTeX{}. A \LaTeX{} package that defines macros for typesetting a basic production-style stage script.}

\texttt{Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein/unsupported}

dratex \texttt{General drawing macros entirely in \TeX{}.}

\texttt{Author: Eitan Gurari; CTAN location: macros/generic/dratex}
dropcaps Use dropped capitals to start a paragraph.
Author: Fred Lauwers; CTAN location: macros/latex/contrib/dropcaps

dropping Drop first letter of paragraphs. A \LaTeX\ 2e macro for dropping the first character(s) (or word(s)) of a paragraph, extending the \LaTeX\ 2.09 package dropcaps and automatically taking care of finding the font name.
Author: Mats Dahlgren; CTAN location: macros/latex/contrib/other/dropping

dstrock Doublestroke font for typesetting the mathematical symbols for the natural numbers (\mathbb{N}), whole numbers (\mathbb{Z}), rational numbers (\mathbb{Q}), real numbers (\mathbb{R}) and complex numbers (\mathbb{C})
Author: Olaf Kummer

difter Computer Duerer fonts.

dvgtk A DVI file previewer for Tektronix 4010 terminal emulators like Kermit, CONEX, or NCSA Telnet, using the Kpathsea library.
Author: Tomasz J. Cholewo; CTAN location: fonts/duerer

dvi2bitmap Utility to convert \TeX\ DVI files directly to bitmaps. A utility to convert \TeX\ DVI files directly to bitmaps, without going through the complicated (and slow!) route of conversion via PostScript and PNM. The prime motivation for this is to prepare mathematical equations for inclusion in HTML files but there are many other uses beyond that. It can generate XBM and GIF bitmaps, plus PNG, if you have the libpng library installed. It uses the same kpathsea font-searching library as other \TeX\ programs, again as long as you have the appropriate library installed. The program is written in C++, and incidentally provides a good object interface for DVI and PK files.
Author: Norman Gray; CTAN location: dviware/dvi2bitmap

dvi2tty Produce ASCII from DVI. A DVI driver to produce an ASCII representation of the document. The patch file dvi2tty.patch fixes a string termination bug which affects some systems (most notably Linux) and cleans up the Makefile.
Author: Svante Lindahl; CTAN location: dviware/dvi2tty

dvichk List the page numbers in a DVI file.
Author: Thomas Esken; CTAN location: dviware/dvichk

dviconcat Concatenates dvi files.
Author: unknown; CTAN location: dviware/dvibook/Dviconcat

dvicopy Copy and concatenate DVI files.
Author: unknown; CTAN location: dviware/dvicopy

dviij Extract information from a DVI file. A utility written in C that extracts information from a \TeX\ dvi file. Information displayed can include a summary of File comment (usually the date file was compiled), file size, number of (physical) pages, and number of fonts. More detailed information can also be displayed, including font names for all fonts used, list of physical page number/\TeX\ page number pairs, and a list of all \specials\ and the page on which they appear. To compile, you need to have a C compiler along with the standard C libraries (e.g., gcc on DOS or Unix).
Author: Adam Lewenberg; CTAN location: dviware/dviij

dviincl A tiny package for including a DVI page into the EPS files generated by METAPOST. One of the auxiliary programs belonging to every METAPOST package is DVITO\MP\, converting a DVI into a METAPOST file. Hence the idea (due to Piotr Bolek and Marcin Wołński) of including a DVI page into the EPS files generated by METAPOST. MPX file produced by DVITO\MP\ is then processed by METAPOST with an auxiliary file.
Author: BOP; CTAN location: graphics/metapost/macros/dviincl

dvijkj A dvi driver for the LaserJet printers with recursive file searching.
Author: unknown; CTAN location: dviware/dvijkj

dviout \TeX\ previewer and printer driver for MS-Windows.
Author: Oshima Toshio; CTAN location: dviware/dviout

dvipaste DVI manipulation. A program designed to produce files that conform to the \TeX\ specifications for dvi files, even though they may actually be too big to be produced with normal implementations of \TeX\ (because of limitations on memory size). More particularly, it allows the material appearing on individual pages of a 'secondary' file to be inserted into a 'main' file.
Author: unknown; CTAN location: macros/lamstex/dvipaste
dvipdfm  A dvi driver to produce PDF directly.

doc2  Author: Mark A. Wicks; CTAN location: dvivare/dvipdfm

dvips-os2  OS2 (and hence MS-DOS, MS-Window31, MS-Window32) executable for dvips.
Author: Wonkoo Kim; CTAN location: systems/os2/dviware/dvips

dvips-shell  A dvips Shell for MS-Window32.
Author: unknown; CTAN location: systems/win32/util

dvips  A dvi to PostScript driver.

dvips1  Author: Tom Rokicki; CTAN location: dviware/dvips

dvipsconfig  Collection of dvips PostScript headers. This is a collection of dvips PostScript header and dvips
config files. They control certain features of the printer, including: A4, A3, usletter, simplex, duplex /
long edge, duplex / short edge, screen frequencies of images, black/white invers, select transparency /
paper for tektronix 550/560, manual feeder, envelope feeder, and tray 1, 2 and 3, and printing a
PostScript grid underneath the page material - very useful for measuring and eliminating paper feed
errors!
Author: Volker Kuhlmann; CTAN location: dviware/dvipsconfig

dvipsdoc  No description available.

dvips2  Author: unknown

dvipsk  A (now standard) version of dvips with support for recursive directory searching.
Author: unknown; CTAN location: dvivare/dvipsk

dviwin  MS-Windows DVI screen and printer driver. A screen and printer driver for \TeX\ DVI files under
Windows 3.1 and Windows NT. Its main features are: Fast previewing (uses 386-specific code if it finds
a 386/486); Painless support for graphics in \TeX\ documents; Uses any standard PK font files or FLI font
libraries; Works with all displays and printers supported by Windows; Automatic generation of missing
fonts; Support for color printers; Native 32-bit versions for Windows NT; Selectable measurement units;
User-definable strings for easy adaptation to various languages (the distribution contains strings for four
different languages apart from English); graphics filters for GIF and XPM files, etc. The required memory
depends on the resolution that you use. It needs about 1.5M free RAM to print on a 300dpi printer
without swapping.
Author: Hippocrates Sendoukas; CTAN location: dviware/dviwin

ean  Font for making EAN barcodes.

generic3  Author: unknown; CTAN location: macros/generic/ean

easy  A collection of “easy” to use macros.

latex3  Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy

easybib  Simple syntax for custom bibliographies. A macro package for writing custom bibliographies with
a simple AMS-\TeX\-like syntax.
Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy

easybmat  Block matrices. A simple package for writing block matrices with equal column widths or equal
rows heights or both, with various kinds of rules between rows and columns.
Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy

easyeqn  A simple package for writing equations. Introduces some equation environments that simplify
writing of equations. It uses a syntax similar to the array environment to define the column alignment.
A package option causes only those equations that were labeled and referenced to be numbered. A set of
macros for typesetting is also added.
Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy

easymat  A simple package for writing matrices. Treats a matrix as an array environment with more kinds of
lines and reentrant.
Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy

easytable  A simple package for writing tables. Supports tables with equal column widths or equal rows heights
or both, with various kinds of rules (lines) between rows and columns using an array/tabular-like
syntax.
Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy

easyvector  Write vectors in a C-like fashion.
Author: Enrico Bertolazzi; CTAN location: macros/latex/contrib/supported/easy
ec-plain  A plain-like format using the ec fonts including an extended math italic font (exmi) providing upright greek letters.
Author: Joerg Knappen; CTAN location: macros/ec-plain

eu The European Computer Modern Fonts supporting the complete I\TeX T1 encoding defined at the 1990 TUG conference held at Cork/Ireland. These fonts are intended to be stable with no changes being made to the tfm files. Also contains a Text Companion Symbol font, called tc, featuring many useful characters needed in typesetting, for example oldstyle digits, currency symbols (including the newly created Euro symbol), the permille sign, copyright, trade mark and servicemark as well as a copyleft sign, and many others. Recent releases of I\TeX\2 support the ec fonts. The ec fonts supersede the preliminary version released as the dc fonts.
Author: Joerg Knappen, Mainz; CTAN location: fonts/jknappen/ec

ecc Sources for the European Concrete fonts. The MetaFont sources and tfm files of the European Concrete Fonts. This is the EC implementation of Knuth’s Concrete fonts, including also the corresponding text companion fonts.
Author: Walter Schmidt; CTAN location: fonts/ecc

ecltree No description available.
latex3 Author: Hideki Isozaki

eco Font metric files and virtual fonts for ec fonts. A set of font metric files and virtual fonts for using the ec fonts with oldstyle numerals. These files can only be used together with the standard ec fonts. The style file eco.sty is sufficient to use the eco fonts but if you intend to use other font families as well, e.g., PostScript fonts, try altfont.
Author: Sebastian Marius Kirsch; CTAN location: fonts/eco

ecpk No description available.
fonts3 Author: unknown

edmac A macro package for typesetting scholarly critical editions.
plain3 Author: unknown; CTAN location: macros/plain/contrib/edmac

eee Epic Extensions to epic and the I\TeX drawing tools. Extensions to epic and the I\TeX picture drawing environment, including the drawing of lines at any slope, the drawing of circles in any radii, and the drawing of dotted and dashed lines much faster with much less TeX memory, and providing several new commands for drawing ellipses, arcs, splines, and filled circles and ellipses.
Author: Conrad Kwok; CTAN location: macros/latex/contrib/other/eepic

egplot A package to encapsulate gnuplot commands in a \LaTeX source file and thus include figures generated with gnuplot.
latex3 Author: Axel Probst; CTAN location: macros/latex/contrib/supported/egplot

eid Macros and EIAD fonts.
fonts3 Author: unknown; CTAN location: fonts/eiad

eijkhout Several unrelated packages: DBprocess, to parse and process database output; CDlabeler, to typeset user text to fit on a CD label; repeat.tex, a nestable, generic loop macro.
Author: Victor Eijkhout; CTAN location: macros/generic/eijkhout

ele Preprint style for Elsevier Science journals.
latex3 Author: unknown; CTAN location: macros/latex/contrib/supported/elsevier

eelvish Font for typesetting Tolkien Elvish script.
fonts3 Author: Julian Bradfield; CTAN location: fonts/elvish

eemp A package for encapsulated MetaPost pictures in \LaTeX. Useful for keeping illustrations in sync with the text. It also frees the user from inventing descriptive names for PostScript files that fit into the confines of file system conventions.
Author: unknown; CTAN location: macros/latex/contrib/supported/emp

emtex-os2 A TeX system for OS/2.
Author: unknown; CTAN location: systems/os2/emtex

emtex A TeX system for MS-DOS.
Author: unknown; CTAN location: systems/msdos/emtex

emtexgi A MS-Windows interface to emTeX.
Author: Allin Cottrell; CTAN location: systems/msdos/emtex-contrib/emtexgi
emtextds TeX for OS2. An emtext-based TeX system for OS2 with a TDS-compliant directory structure. The distribution contains a full texmf directory tree. It comes with an installation script that sets up a comprehensive, ready-to-run (L)TeX system, including full PostScript support.

Author: Walter Schmidt; CTAN location: systems/os2/emtex-contrib/emtextDS

emulateapj E\TeX\ style files to produce preprints with the page layout similar to that of the Astrophysical Journal.

latex3 Author: Maxim Markevitch; CTAN location: macros/latex/contrib/supported/emulateapj

encodings No description available.

omega2 Author: unknown

endfloat Move floats to the end with markers where they belong. Place all figures on pages by themselves at the end of the document with markers like “[Figure 3 about here]” appearing in the text (by default) near to where the figure (or table) would normally have occurred.

Author: Jeffrey Goldberg; CTAN location: macros/latex/contrib/supported/endfloat

endnotes Accumulates footnotes and places them at the end of the document.

Author: Bernard Gaulle; CTAN location: macros/latex/contrib/other/misc

engwar Font for typesetting Tolkien Engwar script, by Michael Urban.

fonts3 Author: unknown; CTAN location: fonts/engwar

enumerate Adds an optional argument to the enumerate environment which determines the style in which the counter is printed.

Author: David Carlisle; CTAN location: macros/latex/required/tools

envbig Printing addresses on envelopes.

latex3 Author: unknown; CTAN location: macros/latex/contrib/other/envbig

enlab Facilitates addressing envelopes or mailing labels. A \LaTeX\ 2e package for producing mailing envelopes and labels, including barcodes and address formatting according to the US Postal Service rules. Redefines the standard \makelabels command of the \LaTeX\ 2e letter document class.

Author: Boris Veytsman; CTAN location: macros/latex/contrib/other/envlab

epic A package enhancing \LaTeX\ ‘s picture mode.

Author: Sunil Podar; CTAN location: macros/latex/contrib/other/epic

epigraph A package for typesetting epigraphs. Epigraphs are the pithy quotations often found at the start (or end) of a chapter. Both single epigraphs and lists of epigraphs are catered for. Various aspects are easily configurable.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/epigraph

epplain Simple but powerful extended version of the plain format, adding support for bibliographies, tables of contents, enumerated lists, verbatim input of files, numbered equations, tables, two-column output, footnotes and commutative diagrams.

Author: Karl Berry; CTAN location: macros/latex/contrib/supported/epplain

epmtfe TeX environment for OS2. The EPM TeX Front End is an additional module for the OS2 Enhanced Editor (EPM), v6.03, turning the editor into a powerful integrated TeX environment that can be used in conjunction with emTeX or another OS2 TeX system.

Author: Walter Schmidt; CTAN location: systems/os2/epmtfe

epsfig Include Encapsulated PostScript in \LaTeX\ documents. Superseded by the \LaTeX\ 2e graphics package.

Author: Sebastian Rahtz; CTAN location: macros/latex/required/graphics

epsview AppleScript tool (for Mac) for viewing figures generated with MetaPost.

Author: Javier Bezos; CTAN location: systems/mac

epsfx A TeX macro package for including EPS graphics (a replacement of epsf.tex/sty). An alternative for epsf.tex/sty dvips macros; enables, e.g., draft printing of bounding boxes, safe inputting of EPS files generated by dvips; moreover, the limit on an EPS size is no longer ten times smaller than the TeX one.

Author: BOP; CTAN location: macros/generic/Tex-PS

epsincl The package facilitates including EPS files in METAPOST documents; it makes use of (G)AWK.

Author: BOP; CTAN location: graphics/metapost/macros/epsincl

epslatex guide to using Encapsulated PostScript in \LaTeX. An extensive document which explains how to use Encapsulated PostScript (EPS) files in \LaTeX\ 2e documents. Includes explanations of Bounding Boxes, and more.

Author: Keith Reckdahl; CTAN location: info
epstopdf  Convert eps to encapsulated pdf using gs.  Converts EPS files to encapsulated PDF files and is written based on the perl script ‘epstopdf’ by Sebastian Rahtz. It is written in C and does not require perl. However, it does require ghostscript. A compiled version for Windows 95/98/NT is included in the package. Since the sources are included, it can be ported to any system having a C-complier.
Author: Juergen Bausa;  CTAN location: support/epstopdf

eqname  Style for different equation numbering.
latex3  Author: unknown;  CTAN location: macros/latex/contrib/other/gene/eqname
eqarray  More generalised equation arrays with numbering.
latex3  Author: unknown;  CTAN location: macros/latex/contrib/supported/eqarray
esieecv  Curriculum vitae for French.
latex3  Author: unknown;  CTAN location: macros/latex/contrib/supported/ESIEEcv
esindex  Typeset index entries in Spanish documents.
Author: Javier Bezos;  CTAN location: macros/latex/contrib/supported/bezos
eso-pic  A package to add picture commands (or backgrounds) to every page.
Author: Rolf Nieprasch;  CTAN location: macros/latex/contrib/supported/ms/contrib
et  A program to edit TeX files in a semi-WYSIWYG fashion on IBM-type PC’s.
Author: John Collins;  CTAN location: support/et
etexbase  No description available.
etex2  Author: unknown
ethiop  Ethiopian language support for the babel package, including a collection of fonts and TeX macros for typesetting the characters of the languages of Ethiopia, with fonts based on EthTeX originally distributed by Abass B. Alamneh.
Author: Olaf Kummer;  CTAN location: language/ethiopia/ethiop
etrsucan  Fonts for the Etruscan script.  The Etruscan script was in use between approximately 1000 BC to 100 AD. The font comes in mirrored forms suitable for writing either left-to-right or right-to-left (as the Etruscans did).
Author: Peter Wilson;  CTAN location: fonts/archaic/etruscan
 euler  Provides a setup for using the AMS Euler family of fonts for math in \TeX documents. “The underlying philosophy of Zapf’s Euler design was to capture the flavor of mathematics as it might be written by a mathematician with excellent handwriting.” [concrete-tug] The euler package is based on Knuth’s macros for the book “Concrete Mathematics”. The text fonts for the Concrete book are provided by the beton package.
Author: Frank Jensen;  CTAN location: macros/latex/contrib/supported/euler
 eulervm  Euler virtual math fonts.  The well-known Euler math fonts are suitable for typsetting math in conjunction with a variety of text fonts which do not provide math character sets of their own. Euler-VM is a set of virtual math fonts based on Euler and CM. This approach has several advantages over immediately using the real Euler fonts: Most noticeably, less \TeX resources are consumed, the quality of various math symbols is improved and a usable \textbackslash{slash} symbol can be provided. The virtual fonts are accompanied by a \TeX package which makes them easy to use, particularly in conjunction with Type1 PostScript text fonts.
Author: Walter Schmidt;  CTAN location: fonts/eulervm
 euro  Arbitrary national currency amounts using the Euro as base unit.  Converts arbitrary national currency amounts using the Euro as base unit, and typesets monetary amounts in almost any desired way. Write, e.g., \texttt{\textbackslash{ATS}\{17.6\}} to get something like ‘17,60 öS (1.28 Euro)’ automatically. Conversion rates for the so-called Euro-zone countries are already built-in. Further rates can be added easily.
Author: Melchior Franz;  CTAN location: macros/latex/contrib/supported/euro
Provides a command that prints a euro symbol. The particular symbol printed by \euro will in general change depending on the font family, weight, and shape in use at the time. This symbol can come from any source, and the package user has complete control over which euro symbol is used in any given situation. The package is pre-configured to behave sensibly with many common text fonts and available euro symbols. The \euro command can print ‘faked’ euro symbols from a C with two lines across it when no suitable real euro symbol is available; the package also includes code for printing fake bold euro symbols for use when no real bold symbol exists, as well as pre-configured support for a faked italic version of the marvosym font. Eurofont comes set up to use euro symbols from Adobe’s Eurofonts, the marvosym font, the Eurosym font, and any available Text Companion fonts. The selection between these can be done using options passed to the package. The eurofont package knows about the China2e font’s euro symbol, and can be configured to use it.

Author: Rowland McDonnell; CTAN location: macros/latex/contrib/supported/eurofont

Access to Adobe’s Euro currency symbol fonts. Provides access to Adobe’s Euro currency symbol fonts from \LaTeX. The fonts are named using Karl Berry’s naming scheme, providing fl files and a style file to use the fonts directly, and providing four macros: \EURtm, \EURhv, \EURcr and \EUR (from marvosym). The actual symbol they produce depends on the currently active font, i.e., they follow font changes caused by \text.. and other NFSS commands. The actual fonts are not included as they have to be fetched from Adobe’s web or ftp server.

Author: Joern Clausen; CTAN location: fonts/euro/latex/europs

Interface to Adobe’s free Euro fonts. Provides a convenient interface for using the free Adobe Type 1 PostScript Euro fonts. Loading the package defines a new command \euro which typesets a Euro symbol. The symbol is always taken from the ‘EuroSans’ family, with the weight (medium or boldface) and shape (normal or oblique) varying according to the font currently selected. This Euro symbol meets the official design and matches almost any font family very well, except for typewriter fonts. The fonts comply with the ‘Karl Berry’ scheme and do the same job as the europs fonts, although the TFM files differ slightly, probably because of different translation programs.

Author: Walter Schmidt; CTAN location: fonts/eurosans

The new European currency symbol for the “Euro” implemented in Metafont, using the official European Commission dimensions, and providing several shapes (normal, slanted, bold, outline). The package also includes a \TeX style file which defines the macro, pre-compiled tfm files, and documentation.

Author: Henrik Theiling; CTAN location: fonts/eurosym

Like EUSM but with two more characters needed for Concrete Math

Author: Donald Knuth

A \TeX package which provides hooks into selectfont.

Author: Martin Schroeder; CTAN location: macros/latex/contrib/supported/ms

Introduces a new hook for taking action at every \shipout. Introduces a new hook for taking action at every \shipout.

Author: Martin Schroeder; CTAN location: macros/latex/contrib/supported/ms

Package for typesetting exam scripts.

Author: unknown; CTAN location: macros/latex/contrib/supported/exam

Package for typesetting exams.

Author: Jason Alexander; CTAN location: macros/latex/contrib/supported/examdesign

Exam questions can be multiple choice or free form long/short answer questions. Options include the typesetting of the exam itself, an exam showing all the answers and a collection of questions and answers. Questions can be parameterized. Use of a random number generator provides for automatic shuffling of multiple choice items.

Author: unknown; CTAN location: macros/latex/contrib/supported/exams

A spelling checker for the Macintosh that is also \TeX aware.

Author: Rick Zaccone; CTAN location: systems/mac/support/excalibur

Environments for defining exercises and quizzes. This package defines three new environments for defining exercises and quizzes. The solutions to the exercises are hyperlinked to the questions. The quizzes are graded and optionally corrected by JavaScript.

Author: D. P. Story; CTAN location: macros/latex/contrib/supported/webeq
Expanded description environments. The expanded description environment provides additional features to the \LaTeX{} description environment. It supports changing the left margin. With \texttt{\lstpart} there is a new command available which makes it possible to break a list for a comment without touching any counters.

Author: Wolfgang Kaspar; CTAN location: \texttt{macros/latex/contrib/supported/expdlist}

Experimental packages to allow experienced \TeX{} programmers to experiment with, and comment on, a proposed set of syntax conventions and basic data-types that might form the basis for programming large scale projects in \TeX{}. 

Author: unknown; CTAN location: \texttt{macros/latex/exptl/project/exp3}

Import and export values of \LaTeX{} registers. This package allows the user to export/import the values of \LaTeX{} registers (counters, rigid and rubber lengths only). It is definitely NOT for faint-hearted users.

Author: Jean-Pierre Drucbert; CTAN location: \texttt{macros/latex/contrib/supported/export}

Diagrams consisting of boxes, lines, and annotations. A MetaPost package providing facilities to assist in drawing diagrams that consist of boxes, lines, and annotations. Particular support is provided for creating EXPRESS-G diagrams. Examples include IDEF1X, OMT, Shlaer-Mellor, and NIAM diagrams.

Author: Peter Wilson; CTAN location: \texttt{graphics/metapost/contrib/macros/expressg}

Implements scaling of the \textquote{c`mix} fonts.

Author: Frank Mittelbach and Rainer Schöpf; CTAN location: \texttt{macros/latex/base}

Implements the commands \texttt{\textbackslash Hypdash, \textbackslash Endash, \textbackslash Em dash}, and their \texttt{*}-forms, to control hyphenation of compound words and ordinary words dashed by em-dash. You can also use the shortcuts \texttt{\textbackslash -, \textbackslash =-, \textbackslash \textendash{}, \textbackslash \textemdash}, and \texttt{\textendash{} instead.}

Author: A. I. Rozhenko; CTAN location: \texttt{macros/latex/contrib/supported/nctools}

Extends article and report with extra sized fonts. Provides classes extarticle and extreport, extletter, extbook, extproc which allow for documents with a base font of size 8--20pt.

Author: Wolfgang May and James Kilfiger; CTAN location: \texttt{macros/latex/contrib/supported/extsizes}

Provides variants of \texttt{\textbackslash fbox: \textbackslash shadowbox, \textbackslash doublebox, \textbackslash ovalbox, \textbackslash ovalbox}, with helpful tools for using box macros and flexible verbatim macros. You can box mathematics, floats, center, flushleft, and flushright, lists, and pages.

Author: unknown; CTAN location: \texttt{macros/latex/contrib/supported/fancybox}

Page headers for the documentation of Software Engineering Projects. Easy and fast creation of page headers for the documentation of Software Engineering Projects, using a mini language implemented in python that generates PSTricks code that is embedded in fancyhdr headers.

Author: Manuel Gutierrez Algaba; CTAN location: \texttt{support/fancyhdrBoxed}

Extensive control of page headers and footers in \LaTeX{} \texttt{2e}.

Author: Piet van Oostrum; CTAN location: \texttt{macros/latex/contrib/supported/fancyhdr}

Typeset numbers. A \LaTeX{} package for typesetting numbers, in particular those numbers written by computers.

Author: J. J. Green; CTAN location: \texttt{macros/latex/contrib/supported/fancynum}

A \LaTeX{} package for fancy cross-referencing.

Author: Axel Reichert; CTAN location: \texttt{macros/latex/contrib/supported/fancyref}

Sophisticated verbatim text. Sophisticated handling of verbatim text including: verbatim commands in footnotes; a variety of verbatim environments with many parameters; ability to define new customized verbatim environments; save and restore verbatim text and environments; write and read files in verbatim mode; build \textquote{example} environments (showing both result and verbatim text).

Author: Timothy Van Zandt, Denis Girou and Sebastian Rahtz; CTAN location: \texttt{macros/latex/contrib/supported/fancyvrb}

The UK \TeX{} Users Group Frequently Asked Questions.

Author: Robin Fairbairns; CTAN location: \texttt{usergrps/uktug/faq}

Document class for preparing faxes.

Author: J. B. Rhebergen and J. H. M. de Jonge; CTAN location: \texttt{macros/latex/contrib/supported/fax}

Fonts for African languages, complementary to Computer Modern.

Author: Joerg Knappen, Mainz; CTAN location: \texttt{fonts/jknappen/fc}
fepslatex  French version of esplaintext.
Author: Jean-Pierre Drucbert; CTAN location: info

feynmf  Macros and fonts for creating Feynman (and other) diagrams. Macros and fonts for creating Feynman (and other) diagrams.
Author: Thorsten Ohl; CTAN location: macros/latex/contrib/supported/feynmf

fiyph  Hyphenation patterns for Finnish language. This is modified from fiyph.texto make the Finnish accented letters to work with \TeX2e, adding some \texttt{\textbackslash catcode}, \texttt{\textbackslash uccode}, and \texttt{\textbackslash lccode} commands after the model used in the hyphenation files for the other European languages.
Author: Timo Hellgren; CTAN location: language/hyphenation

filehdr  A collection of tools to support \LaTeX{} style format for file/package descriptions.
Author: unknown; CTAN location: tools/filehdr

finbib  No description available.

biblatex  A Finnish version of 'plain.bst'.
Author: Antti-Juhani Kajianaho; CTAN location: biblio/bibtex/contrib

fix2col  Fix miscellaneous two column mode features. Fix mark handling so that \texttt{\textbackslash firstmark} is taken from the first column if that column has any marks at all; keep two column floats like figure* in sequence with single column floats like figure.
Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

fixbbl  Patch bibliographies inappropriately broken by \LaTeX{}. This script deals with the well-known \LaTeX{} bug whereby \LaTeX{} inserts a `%` in a url to cause the bibliography line to fit into its minuscule vision of what is an acceptable input line for \TeX{}.
Author: unknown; CTAN location: biblio/bibtex/utils/fixbbl

fixfoot  Multiple use of the same footnote text. Provides a \texttt{\textbackslash DeclareFixedFootnote} command to provide a single command for a frequently-used footnote. The package ensures that only one instance of the footnote text appears on each page. (\TeX{} needs to be run several times to achieve this.)
Author: Robin Fairbairns; CTAN location: macros/latex/contrib/supported/fixfoot

floatfig  Allows text to be wrapped around figures.
Author: unknown; CTAN location: macros/latex/contrib/other/floatfig

floatflt  Wrap text around floats. Float text around figures and tables which do not span the full width of a page, improving upon floatfig, allowing tables/figures to be set left/right or alternating on even/odd pages.
Author: Mats Dahlgren; CTAN location: macros/latex/contrib/other/floatflt

floatpage  Defines new environments for placing captions of tables and figures on the facing/following page.
Author: Sebastian Gross; CTAN location: macros/latex/contrib/supported/floatpage
fncychap This package provides six predefined chapter headings. Each can be modified using a set of simple commands. Optionally one can modify the formatting routines in order to create additional chapter headings. This package was previously known as FancyChapter.

\[ \text{Author: Ulf Lindgren; CTAN location: macros/latex/contrib/supported/fncychap} \]

fnpara Typeset footnotes in run-on paragraphs, instead of one above another.

\[ \text{Author: Chris Rowley and Dominik Wujastyk; CTAN location: macros/latex/contrib/other/misc} \]

foilhtml Provides integration between Foil\TeX{} and L\TeX{}2HTML, adding sectioning commands and elements of logical formatting to Foil\TeX{} and providing support for Foil\TeX{} commands in L\TeX{}2HTML.

\[ \text{Author: Boris Veytsman; CTAN location: macros/latex/contrib/supported/foilhtml} \]

foil\TeX{} A L\TeX{}2 class for overhead transparencies. Can be used with fancybox to place a variety of borders around the slides.

\[ \text{Author: James Hafner; CTAN location: macros/latex/contrib/supported/foil\TeX{}} \]

font-selection Font selection for plain \TeX{}. Font selection for plain \TeX{}, featuring: 21 sizes in the range 7 to 154 points; 16 typefaces, including Italic Bold, Calligraphic Bold, Sans Serif, Sans Serif Italic, and Sans Serif Bold; Boldmath, inclusive of subscripts, superscripts, and symbols; and a few other useful macros.

\[ \text{Author: Harold de Wijn; CTAN location: macros/plain/contrib/font_selection} \]

fontinst \TeX{} macros for converting Adobe Font Metric files to \TeX{} metric and virtual font format.

\[ \text{Author: unknown; CTAN location: fonts/utilities/fontinst} \]

doc2 Karl Berry’s scheme for naming fonts in \TeX{}.

\[ \text{Author: unknown} \]

footsmpl Print a sample of a font.

\[ \text{Author: Alan Jeffrey; CTAN location: macros/latex/required/tools} \]

footbib A package to put bibliographic references as footnotes.

\[ \text{Author: Eric Domenjoud; CTAN location: macros/latex/contrib/supported/footbib} \]

footmisc Footnotes with all the options. Captures as package options much (if not all) of the functionality of the various other footnote packages.

\[ \text{Author: Robin Fairbairns; CTAN location: macros/latex/contrib/supported/footmisc} \]

footnpag Allows footnotes on individual pages to be numbered from 1, rather than being numbered sequentially through the document.

\[ \text{Author: Joachim Schrod; CTAN location: macros/latex/contrib/supported/footnpag} \]

formats Prebuilt \TeX{} format and MetaFont base files.

\[ \text{Author: unknown} \]

texlive2 A \TeX{} environment for MS-Windows32. Includes spell checker, etc, all controlled from a toolbar that can sit on top of your favourite editor.

\[ \text{Author: Erik Frambach; CTAN location: support/4project} \]

fourspell Windows32 spell checker for \TeX{}, RTF, HTML, and Bib\TeX{}. A Windows32 spell-checker for (E)\TeX{}, RTF, HTML, Bib\TeX{} documents, or any other ASCII format, with or without tags. Highly configurable. Supports multiple codepages (can spell-check e.g. Russian), uses colors to display document and tag structures. Dictionaries are compatible with WinEdit.

\[ \text{Author: Erik Frambach; CTAN location: support/4spell} \]

four\TeX{} A \TeX{} environment for MS-Windows32. Includes spell checker, etc, all controlled from a toolbar that can sit on top of your favourite editor.

\[ \text{Author: Erik Frambach; CTAN location: systems/win32/4\TeX{}} \]

fp Provides an extensive collection of arithmetic operations for fixed point real numbers of high precision.

\[ \text{Author: Michael Mehlich; CTAN location: macros/latex/contrib/other/fp} \]

ftex A t\TeX{}-1.0 based distribution for MS-Windows. A distribution of \TeX{} for MS-Windows based on web2e and t\TeX{} using InstallShield for installation.

\[ \text{Author: Fabrice Popineau; CTAN location: systems/win32/ftex} \]
TUGboat, Volume 21 (2000), No. 1

frankenbundle support
Develop and distribute groups of \TeX packages and classes and \TeX bibliography styles, their documentation, and any support files with a high degree of sophistication, consistency, and convenience both for the author and their end users, who will receive the bundle in a form easy to understand and use. The author using Frankenbundle needs a Unix-like environment, GNU Make and a rudimentary understanding of Makefiles. The end user does not need Make.

Author: Matt Swift; CTAN location: support/frankenbundle

frankenstein
A collection of \TeX packages. Formerly known as monster (an obsolete, 8+3-compliant name), Frankenstein is a bundle of \TeX packages serving various purposes and a \TeX bibliography style. Descriptions are given under the individual packages: abbrevs, achiicago package, achiicago bibstyle, attrib, bits, blkcntrl, compsci, dialogue, drama, includex, lips, moredefs, newchude, slemph, titles.

Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein

freetype
A free, full-featured TrueType rasterizer library.

Author: Werner Lemberg; CTAN location: fonts/utilities/freetype

french
Style for French typography: light version.

Author: Bernard Gaulle; CTAN location: language/french

frhyp
French hyphenation patterns.

Author: Daniel Filpo; CTAN location: language/hyphenation

fribrief
A \TeX class for writing letters.

Author: Alexander Fries; CTAN location: macros/latex/contrib/supported/fribrief

ftcap
Allows \caption at the beginning of a table-environment. For several reasons a \caption may be desirable at the top of a table-environment. This package changes the table-environment such that \abovecaptionskip and \belowcaptionskip are swapped. ftcap should also work with your own non-standard table-environment.

Author: Hans Friedrich Steffani; CTAN location: macros/latex/contrib/other/misc

ftex
A \TeX package for FTE (FTE = Folding Text Editor by Marko Macek). Adds a \TeX menu system for FTE. Changes syntax highlighting for FTE’s \TeX-Mode. Runs \TeX, dvi-drivers, ispell, etc., from FTE. Calls \TeX help files from FTE. It is preconfigured for em\TeX. Author: Oliver John von Zydowitz; CTAN location: systems/os2/ftex

ftn
\TeX document-style option to make footnotes available in any environment, except inside floats.

Author: Kresten Krab Thorup; CTAN location: macros/latex209/contrib/misc

ftnright
Footnotes in two column documents.

Author: Frank Mittelbach; CTAN location: macros/latex/required/tools

fullblck
Used with the letter documentclass to set the letter in a fullblock style (everything at the left margin).

Author: James H. Cloos Jr.; CTAN location: macros/latex/contrib/supported/fullblck

fullpict
Full page pictures.

Author: Bruce Shawyer; CTAN location: macros/latex/contrib/supported/fullpict

fundus
Providing \TeX access to various font families.

Author: unknown; CTAN location: macros/latex/contrib/other/gene/fundus

funnelweb
A ‘Literate Programming’ tool, which produces documentation for programs in \TeX or \LaTeX.

Author: Tony Coates; CTAN location: web/funnelAC

futhark
Fonts for the Older Futhark script.

Author: unknown; CTAN location: fonts/futhark

g-brief
A document class for \LaTeX 2ε. Serves for formatting formless letters in german or english language.

Author: Michael Lenzen; CTAN location: macros/latex/contrib/supported/g-brief

galois
Write Galois connections in two-ddimensional style.

Author: Patrick Cousot; CTAN location: macros/latex/contrib/supported/galois

gbe
Government Binding styles.

Author: unknown; CTAN location: macros/latex/contrib/supported/gbe

genealogy
A simple compilation of the genealogical symbols found in the ‘wasy’ and ‘gen’ font, essentially adding the male and female symbols to Knuth’s ‘gen’ font, and so avoiding loading two fonts when you need only genealogical symbols.

Author: Denis Roegel; CTAN location: fonts/genealogy
miscellaneous small files for all formats, specific to the \TeX\ Live CDROM.

gentl-gr Modern Greek translation of the Gentle Introduction to \TeX\.
Author: Dimitrios Filippou; CTAN location: help/greek/gentl-gr

gentle A Gentle Introduction to \TeX\.
Author: Michael Doob; CTAN location: info/gentle

generic3 Flexible and complete interface to document dimensions. Provides an easy and flexible user interface to customize page layout, implementing auto-centering and auto-balancing mechanisms so that the users have only to give the least description for the page layout. For example, if you want to set each margin 2cm without header space, what you need is just \texttt{\usepackage[margin=2cm,nohead]{geometry}}. Options include columnsep and footnotesep, vtex, mag.
Author: Hideo Umeki; CTAN location: macros/latex/contrib/geometry

gentle AGentle Introduction to \TeX\.
Author: Michael Doob; CTAN location: info/gentle

german Support for German typography. Supports the new German orthography (\textit{neue deutsche Rechtschreibung}).
Author: Bernd Raichle; CTAN location: language/german

getrefs A \Bib\TeX\ style file and a \LaTeX\ document template to facilitate the retrieval of references from a library.
Author: Stefan A. Deutscher; CTAN location: biblio/bibtex/contrib/getrefs

ghostscript Freely available PostScript interpreter. Freely available Aladdin and GNU PostScript interpreters available for many platforms and also useful for conversion from PostScript to other formats, and particularly for printing to non-PostScript printers.
Author: L. Peter Deutsch; CTAN location: support/ghostscript/aladdin

ghostview-mac Ghostview for CMac\TeX\ to preview PostScript documents.
Author: Tom Kiffe; CTAN location: systems/mac

glosstex Prepare glossaries in \LaTeX\.
GlosTeX is a tool for the automatic preparation of glossaries, lists of acronyms and sorted lists in general for use with \LaTeX\ and MakeIndex. GlosTeX combines the functionality of acronym and nomencl and provides some new features. Various binaries are available in the bin subdirectory.
Author: Volkan Yavuz; CTAN location: support/glosstex

gnhyph An experimental set of hyphenation patterns for the new German orthography (\textit{neue deutsche Rechtschreibung}) currently being introduced.
Author: Walter Schmidt; CTAN location: language/hyphenation

gn-logic


gnhyph An experimental set of hyphenation patterns for the new German orthography (“\textit{neue deutsche Rechtschreibung}”) currently being introduced.
Author: Walter Schmidt; CTAN location: language/hyphenation

gnplot General purpose plotting program. Generate almost any type of chart you wish and save it in \LaTeX\ format or as EPS (or in any of a dozen other formats).
Author: unknown; CTAN location: graphics/gnuplot
Fonts and macros for typesetting go games.

Fonts for Gothic and ornamental initial fonts by Yannis Haralambous.

Simpler graphic, subfigure and float. This package combines the tools of the graphic, subfigure and float packages in a way that makes their use simpler and more robust. The Figure environment (capitalized!) differs from the standard \LaTeX figure environment with the addition of a mandatory argument to specify the caption and an optional argument used as a label. These ensure that the \texttt{label} command appears after the \texttt{caption} command to avoid possible errors. The commands \texttt{graphfig} and \texttt{graphfig*} have the additional advantage that the picture will be automatically centered along the horizontal direction.

For producing graph paper.

Fonts for gray scales.

A Greek font from 394BC. Provides a Greek monumental font as used on a stele in Athens in 394BC. The font consists of majuscules only and is one of a series of archaic fonts.

A package which implements a numbering system used in ancient Athens, producing the ‘Athenian’ numeral for any positive arabic numeral. The package can be used as a means to provide alternative counters.

Typeset Greek text with the Times New Roman Greek. Enables users who use the Greek option of the babel package to typeset monotonic Greek text with the Times New Roman Greek, Arial Greek and Courier Greek fonts. Does not include the fonts.

Primarily intended for use with xdvi and dvips this utility allows the use of PostScript fonts with xdvi.

View PostScript under MS-Windows or OS2. GSView is a graphical interface for Ghostscript under MS-Windows or OS2. Ghostscript is an interpreter for the PostScript page description language used by laser printers. For documents following the Adobe PostScript Document Structuring Conventions, GSView allows selected pages to be viewed or printed. Various conversions can also be performed, including ps to pdf, pdf to ps, eps to pdf, and eps to jpg. GSview 2.7 requires Ghostscript 4.03 - 5.99. GSView was inspired by Tim Theisen’s X11 Ghostview program. It is designed to work with Aladdin Ghostscript, not GNU Ghostscript.

Polish oriented macros. Various small utility packages for typesetting in plain \LaTeX, with a Polish perspective.

Author: Hanna Kołodziejska; CTAN location: fonts/go

Author: Walter Schmidt; CTAN location: fonts/gothic

Author: Francesco Bosisio; CTAN location: macros/latex/contrib/other/bosisio

Author: David Carlisle and Sebastian Rahtz; CTAN location: macros/latex/required/graphics

Author: Apostolos Syropoulos; CTAN location: language/greek/grtimes

Author: Peter Wilson; CTAN location: fonts/archaic/greek4cbc

Author: Peter Wilson; CTAN location: fonts/archaic/greek6cbc

Author: David Carlisle; CTAN location: macros/latex/contrib/other/grnumalt

Author: David Carlisle; CTAN location: language/greek/grtimes

Author: Paul Vojsa; CTAN location: fonts/utilities/gsftopk

Author: Russell Lang; CTAN location: support/ghostscript/rjl

Author: unknown
Pointing hand fonts.

Author: unknown; CTAN location: fonts/hands

Defines a variant of the caption command to produce captions with hanging indentation.

Author: unknown; CTAN location: macros/latex2009/contrib/misc

The hanging package facilitates the typesetting of hanging paragraphs. It also enables typesetting with hanging punctuation (this is probably best regarded as a curiosity).

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/hanging

Extra harpoons, using the graphics package.

Author: unknown; CTAN location: macros/latex/contrib/supported/harpoon

The Harvard bibliography style family.

Author: unknown; CTAN location: biblio/bibtex/contrib

Paul Ginsparg’s Harvard macros for scientific articles.

Author: unknown; CTAN location: macros/plain/contrib/harvmac

Replacement for the \LaTeX classes. Provides replacements for the default \LaTeX classes, based upon the Koma-Script bundle and the seminar class. Includes heart, hereport, hcletter, and hslides.

Author: Christian Siefkes; CTAN location: macros/latex/contrib/supported/hc

Typeset bibliographies which include Greek. A \BibTeX style for typesetting databases that containing both Greek and non-Greek bibliographic records.

Author: Apostolos Syropoulos; CTAN location: language/greek/cb/BibTeX

Read and format ASCII hexdump files. The main macro reads an ASCII hexdump file and puts it formatted into the document. Additional macros included, e.g., for a Directory of Dumps.

Author: Thomas Hillebrand; CTAN location: macros/generic/hexdump

Fancy boxing effects.

Author: unknown; CTAN location: macros/latex/contrib/supported/hh

Better horizontal lines in tabulars and arrays.

Author: David Carlisle; CTAN location: macros/latex/required/tools

About 60 Egyptian Hieroglyphs.

Author: Peter R Wilson; CTAN location: fonts/archaic/hieroglf

A package to simplify the inclusion of low resolution versions of high resolution images, if each pair of files have the same basename (e.g., bird.low.eps and bird.eps). The package is a simple wrapper around the \includegraphics command of the graphicx package.

Author: Johann Cerell; CTAN location: macros/latex/contrib/supported/hilowres

Drawing histograms with the \LaTeX picture environment.

Author: unknown; CTAN location: macros/latex/contrib/supported/histogram

Support for the Korean language. Support for Korean documents written in Korean standard KSC codes for \LaTeXe.

Author: Koaunghi Un; CTAN location: language/korean/HLaTeX

Converted mlogo font. Fonts originally created in MetaFont, transformed to PostScript by Taco Hoekwater.

Author: Taco Hoekwater; CTAN location: fonts/mlogo/ps-type1/hoekwater

Various \TeX documentation converted to HTML.

Author: unknown; CTAN location: support/html

The html2latex package compiled from the Unix sources version 0.9c with emx 0.9c fix 2 to run on MS-DOS, MS-Windows (3.x, 9x, NT), OS2 Warp

Author: Roland Reimers; CTAN location: support/html2latex

Convert HTML into text. This is a HTML-to-text converter for UNIX.

Author: Rolf Niepraschk; CTAN location: support/html2text

Hyphenation patterns for the Hungarian language.

Author: Gyula Mayer; CTAN location: language/hyphenation

Fonts based on the half Uncial manuscript book-hand. The huncial and allhunc packages provide Metafont fonts based on the Half Uncial manuscript book-hand used between the 3rd and 9th centuries. The font consists of minuscules and digits, with some appropriate period punctuation marks and ligatures. Both normal and bold versions are provided. This is one in a series of manuscript fonts.

Author: Peter Wilson; CTAN location: fonts/bookhands/huncial
Definitions of horizontal and vertical dashed lines for the array and tabular environment. Instead of building partial horizontal dashed lines using Isosaki’s \cline{2-3}, \hdashline fills the full width. The proportion of the dashed line is defined by the two parameters: \hdashlinewidth=2pt and \hdashlinegap=2pt, where the former defines the width of the dash and the latter sets their gap. 

Author: unknown; CTAN location: macros/latex209/contrib/misc

Support for using the Micropress HV-Math fonts (Helvetica Maths). Typeset math in a style that suits the Adobe Helvetica text fonts. Math fonts for use with Helvetica are generally otherwise not available, and a free, bitmapped version of HV-Math can be downloaded from Micropress. Commercial versions of the HT-Math fonts are available from Micropress.

Author: Walter Schmid; CTAN location: macros/latex/contrib/supported/hvmath

Hypertext bookmarks in sectioning commands. Bookmark entries can be given as another argument to the \LaTeX sectioning commands. The hyperref package is required to get the bookmarks, but the syntax works without it.

Author: Heiko Oberdiek; CTAN location: macros/latex/contrib/supported/oberdiek

Hypertext cross referencing. Redefines \LaTeX cross-referencing commands to insert \special commands for HyperTeX dvi viewers, such as recent versions of xdvi.

Author: Michael Mehlich; CTAN location: macros/latex/contrib/supported/hyper

A package that allows you to prepare documents in HTML and to produce a neatly printed document from your input using \LaTeX. It is not a \LaTeX to HTML converter (see lth or latex2html for that).

Author: Otfried Schwarzkopf; CTAN location: support/hyperlatex

Extensive support for hypertext in \LaTeX. The hyperref package is used to handle cross-referencing commands in \LaTeX to produce some sort of hypertext command; there are backends for the \special set defined for HyperTeX dvi processors, for embedded pdfmark commands for processing by Acrobat Distiller (dvips and dvipsone), for dvwindo, for pdf\TeX, for \TeX\Xyht, and for VTEX’s pdf and HTML backends.

Author: Sebastian Rahtz; CTAN location: macros/latex/contrib/supported/hyperref

Disable/enable hyphenation. This package can disable all hyphenation or enable hyphenation of non-alphabets or monospaced fonts. Enables hyphenation within ‘words’ that contain non-alphabetic characters (e.g., that include underscores), and hyphenation of text typeset in monospaced (e.g., cmitt) fonts.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/hyphenat

Hyphenation patterns for ancient and modern Greek. Contains the hyphenation patterns for ancient Greek and modern Greek in polytonic (multi-accent) and monotonic (uni-accent) systems. The hyphenation patterns will work perfectly with the “greek” option of “babel” or Dryllerakis’ Greek\TeX.

For any other Greek package, the patterns will have to be re-coded. A brief description of the files is given in the file “readme.txt”.

Author: Dimitrios Filippou; CTAN location: language/greek/package-babel/hyphenation/filippou

Additional hyphenation patterns. Additional hyphenation patterns which have to be loaded in conjunction with each “normal” set of patterns. It contains patterns to allow hyphenation after an explicit hyphen, which are needed if you want to use e.g. the second hyphen character (\char127) of the EC fonts or any other T1 encoded font as \hyphenchar\font.

Author: Bernd Raichle; CTAN location: language/hyphenation

No description available.

Author: unknown

Consists of 2 files that might help Textures users: one to ease the use of the basic 35 Adobe fonts with the T1 font encoding with \LaTeX; the other for people willing to automatically install that last \LaTeX version under Textures.

Author: Bernard Gaulle; CTAN location: systems/mac/textures/contrib/IdealFonts

IEEE Power Engineering Society Transactions. Supports typesetting of transactions, as well as discussions and closures, for the IEEE Power Engineering Society Transactions journals.

Author: Volker Kuhlmann; CTAN location: macros/latex/contrib/supported/ieeepes

Elsevier Science preprint style for IFAC meetings.

Author: Simon Pepping; CTAN location: macros/latex/contrib/supported/ifacmtg
ifmslide
Presentation slides (from computer screen) and printouts. This package is used to produce printed slides with \LaTeX{} and online presentations with pdflatex. It is provided by the “institute of mechanics” (ifm) Univ. of Technology Darmstadt, Germany. It is based on ideas of pdfslide, but completely rewritten for compatibility with texpower and seminar. The manual (ifmman.pdf) describes all functions and provides a sample.
Author: Thomas Emmel; CTAN location: macros/latex/contrib/supported/ifmslide

ifmtarg
If-then-else command for processing potentially empty arguments.
Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/misc

ifsym
Symbols for alpinistic, electronic, meteorological, geometric etc. usage.
Author: Ingo Kloeckl; CTAN location: fonts/ifsym

ifthen
Conditionals in \LaTeX{} documents.
Author: \LaTeX{} Project Team; CTAN location: macros/latex/base

imac
International Modal Analysis Conference format. A set of files for producing correctly formatted documents for the International Modal Analysis Conference.
Author: Joseph Slater; CTAN location: macros/latex/contrib/other/imac

impose
PostScript utilities. Impose is used for two-up printing of DSC-compliant PostScript (including that from Netscape, dvips, and FrameMaker). It makes an effort to remove white space from the printout by probing the original PostScript for the bounding box of the printed area. This makes the output much more esthetic than does a simplistic layout of non-cropped original pages.
Author: Dov Grobgedl; CTAN location: support/impose

include
Extended \include{}. A \LaTeX{} package that allows you to include just the contents of one source file into another, ignoring text outside the \texttt{\begin{document}} and \texttt{\end{document}} in the included file. This package is useful but may have problems and is unsupported. See also the new include package.
Author: Matt Swift and Robin Fairbairns; CTAN location: macros/latex/contrib/supported/frankenstein/unsupported

indentfirst
Indent first paragraph after section header.
Author: David Carlisle; CTAN location: macros/latex/required/tools

index
Extended index for \LaTeX{} including multiple indexes. This is a reimplementation of \LaTeX{}’s indexing macros to provide better support for indexing. For example, it supports multiple indexes in a single document and provides a more robust \texttt{\index} command. It supplies short hand notation for the \texttt{\index} command (\texttt{\{word\}}) and a * variation of \texttt{\index} (abbreviated \texttt{\_\{word\}}) that prints the word being indexed, as well as creating an index entry for it.
Author: David M. Jones; CTAN location: macros/latex/contrib/supported/camel

indxcite
A package to automatically generate an Author Index based on citations made using \BibTeX{}. It requires the use of the harvard and index packages and \LaTeX{}2e.
Author: James Ashton; CTAN location: macros/latex/contrib/supported/indxcite

info
Documentation in GNU info form.
Author: unknown

doc2
Author: unknown

inhyph
Hyphenation patterns for Bahasa Indonesia.
Author: Joerg Knappen and Terry Mart; CTAN location: language/hyphenation

initials
A special font (yinit) is defined to be used for initial dropped capitals.
Author: unknown; CTAN location: fonts/gothic/yinit

inlinbib
Inlined \texttt{\cites}.
Author: Rene Seindal; CTAN location: biblio/bibtex/contrib/inlinbib

inputenc
Control input encoding.
Author: \LaTeX{} Project Team; CTAN location: macros/latex/base

insbox
A \TeX{} macro for inserting pictures/boxes into paragraphs.
Author: Michal Guleczyński; CTAN location: macros/generic/insbox

ipa
No description available.
Author: unknown

latex3
Author: unknown

isi2bibtex
Converter for ISI to \BibTeX{}.
Author: John J. Lee; CTAN location: biblio/bibtex/utils/isi2bibtex
TUGboat, Volume 21 (2000), No. 1

\texttt{isodate} Tune the output format of the \texttt{\today} command. This package provides four commands to switch the output format of the \texttt{\today} command: \texttt{isodate} switches to yyyy–mm–dd; \texttt{\numdate} switches to dd.mm.yyyy, dd/mm/yyyy, or mm/dd/yy; \texttt{\shortdate} switches to dd.mm.yy, dd/mm/yy, or mm/dd/yy; \texttt{\origdate} switches to the original \LaTeX{} format (which is language dependent). The package contains two additional commands to print a date given as an argument using the actual date format for output: \texttt{\printdateiso{yyyy-mm-dd}} and \texttt{\printdatenumger{dd.mm.yyyy}}.

\texttt{isorot} Rotation of document elements. The isorot package is for rotation of document elements. It is a combination of the \texttt{lscape} package and an extension of the \texttt{rotating} package. It is designed for use with the iso class but may be used with any normal class.

\texttt{isostds} Typeset ISO International Standard documents. Class and package files for typesetting ISO International Standard documents. Several standard documents have been printed by ISO from camera-ready copy prepared using \LaTeX{} and these files. One set of files is for generic ISO typesetting and the other is an extension set of packages for typesetting ISO 10303 standards.

\texttt{ithyph} Italian hyphenation.

\texttt{izhitsa} Support for the old Russian font “Izhitsa”. Includes MetaFont code and \LaTeX{} style file.

\texttt{jadetex} Macros to implement Jade DSSSL output. Macro package on top of \LaTeX{} to typeset \TeX{} output of \texttt{jadetex} implementation.

\texttt{jas99m} A \texttt{BibTeX} style for American Meteorological Society (AMS).

\texttt{javatex} A Java implementation of \TeX{}.

\texttt{jeep} No description available.

\texttt{jhep} JHEP style. A \LaTeX{} class file used to typeset manuscripts in JHEP style.

\texttt{jknappen} Miscellaneous packages by Joerg Knappen. Miscellaneous macros, mostly for making use of extra fonts, by Joerg Knappen, including \texttt{sgmlcmpt}.

\texttt{jkthesis} Document class for formatting a thesis.

\texttt{jpeg2ps-os2} JPEG to PostScript converter for OS2. OS2 port of \texttt{jpeg2ps}.

\texttt{jpeg2ps} Convert JPEG files to PostScript Level 2 or 3 EPS. Converts JPEG files to PostScript Level 2 or 3 EPS. In fact, \texttt{jpeg2ps} is not really a converter but a “wrapper”: it reads the image parameters (width, height, number of color components) in a JPEG file, writes the according EPS header and then copies the compressed JPEG data to the output file. Decompression is done by the PostScript interpreter (only PostScript Level 2 and 3 interpreters support JPEG compression and decompression).

\texttt{jqt1999} Journal of Quality Technology \texttt{BibTeX} style. This is a derivative work of Oren Patashnik’s \texttt{apalike} \texttt{BibTeX} style. It is a \texttt{BibTeX} file for the Journal of Quality Technology that can be used with natbib. It puts semicolons between authors, quotes around titles, and ‘pp.’ before page numbers.

\texttt{jsmisc} Miscellaneous useful macros by Joachim Schrod.

\texttt{jspell} An ASCII file spelling checker.

\texttt{plain3} Author: Joachim Schrod; CTAN location: \texttt{macros/plain/contrib/js-misc}

\texttt{jspell} An ASCII file spelling checker.

\texttt{support/jspell}
**jura** A document class for German legal texts. Implements the standard layout for German term papers in law (one-and-half linespacing, 7 cm margins, etc.). Includes alphanumeric that permits alphanumeric section numbering (e.g., A. Introduction; III. International Law).

Author: Felix Braun; CTAN location: macros/latex/contrib/supported/jura

**jurabib** BibTeX databases for German legal texts. Allows the use of BibTeX databases for German legal texts. It can be used both together with or independently from the jura document class. The package allows the dynamic citation of an abbreviated title, depending on a multiple citation of an author with different books. It is easy to modify the layout of the citations and the entries in the bibliography.

Author: Jens Berger; CTAN location: macros/latex/contrib/supported/jura

**kalendar** A calendar style.

Author: unknown; CTAN location: macros/latex/contrib/other/kalender

**kalender** Style file for creating a calendar, in German.

Author: unknown; CTAN location: macros/latex/contrib/other/kalender

**karnaugh** Typeset Karnaugh-Veitch-maps. Macros intended for typesetting Karnaugh-Maps and Veitch-Charts in a simple and user-friendly way. Karnaugh-Maps and Veitch-Charts are used to display and simplify logic functions “manually”. These macros can typeset Karnaugh-Maps and Veitch-Charts with up to ten variables (= 1024 entries).

Author: Andreas W. Wieland; CTAN location: macros/latex/contrib/other/karnaugh

**kdgreek** Greek fonts.

Author: unknown; CTAN location: fonts/greek/kd

**kix** Implements KIX codes as used by the Dutch PTT for bulk mail addressing. (Royal Mail 4 State Code.) KIX is a registered trade mark of PTT Post Holdings B. V.

Author: Sander Stoks; CTAN location: macros/latex/contrib/other/misc

**kluwer** A TeX class file for submissions of journal articles to Kluwer Academic Publishers, Dordrecht, the Netherlands.

Author: Taco Hoekwater; CTAN location: macros/latex/contrib/supported/kluwer

**knst** A package supporting the generation and correction of multiple option tests as appears in TUGboat Volume 17, Number 3: “Fast and secure multiple option tests”.

Author: Jordi Saludes; CTAN location: macros/generic/knst

**knuth** Knuth’s own documentation, including the TeXbook and the MetaFontbook.

Author: Donald Knuth; CTAN location: systems/knuth

**koi8** A package to perform internal translation from the KOI-8 encoding (de-facto standard of the UNIX world) to the so-called “alternative encoding” used by most Cyrillic packages. You still need one of these packages for the actual Russian typesetting. The style works with all major Cyrillic packages: cncyr, cncyralt, LH.

Author: Uri Blumenthal; CTAN location: macros/latex/contrib/supported/koi8


Author: Markus Kohm; CTAN location: macros/latex/contrib/supported/koma-script

**kuvio** Drawing macros and fonts for diagrams.

Author: unknown; CTAN location: macros/generic/diagrams/kuvio

**labelmag** Manage a collection of labels. A MS-Win32 program for managing a collection of labels to be typeset by TeX and printed on demand. The collection will be held together within a single file; labels may be kept within categories. As an advanced feature, mailing labels, e.g., may query an odbc data source.

Author: Peter Willadt; CTAN location: systems/win32/texhelpers/labelmag

**labels** Support for printing sheets of sticky labels (but could also be used for business cards). The number of rows and columns of labels, and their size, can be changed.

Author: unknown; CTAN location: macros/latex/contrib/supported/labels

**lamstex** A merge of the best in AMS-TeX and BPreX.

Author: Michael Spivak; CTAN location: macros/lamstex
latex3 Reference last page for Page N of M type footers. Reference the number of pages in your \TeX document through the introduction of a new label which can be referenced like \texttt{\textbackslash pageref\{LastPage\}} to give a reference to the last page of a document. It is particularly useful in the page footer that says: Page N of M.

Author: Jeffrey Goldberg; CTAN location: macros/latex/contrib/other/lastpage

lated A graphical editor for drawings in the \TeX “picture” environment. It runs under MS-DOS and MS-Windows. The distribution includes full sources, including \TeX source for its documentation.

Author: Gene Ressler; CTAN location: systems/msdos/lated

latex Macro package for \TeX (the most popular). \TeX is a (and probably the most) popular macro package for \TeX, providing many basic document formatting commands extended by many of the packages included in this current list.

Author: Leslie Lamport; CTAN location: macros/latex

latex2e Documentation on \LaTeX2ε in OS2 hypertext format and html.

Author: Rolf Niepraschk; CTAN location: info/latex2e-help-texinfo

latex2html Convert \TeX into HTML documents. A Perl program that translates \TeX into HTML (HyperText Markup Language) creating separate HTML files corresponding to each unit (e.g., section) of the document.

Author: unknown; CTAN location: support/latex2html

latex2man Translate \TeX-based manual pages into Unix man format. A tool to translate UNIX manual pages written with \TeX into a man-page format understood by the UNIX man(1) command. Alternatively HTML or TexInfo code can be produced. Output of parts of the text may be suppressed using the conditional text feature.

Author: Juergen Vollmer; CTAN location: support/latex2man

latex2rtf Convert \TeX into Rich Text Format. Translates \TeX text into RTF (Rich Text Format as used by Microsoft Word).

Author: Fernando Dorner and Andreas Granzer; CTAN location: support/latex2rtf

latexcad A CAD drawing package.

Author: John Leis; CTAN location: obsolete/systems/msdos/latexcad

latexdrawX X-Windows based and CAD orientated drawing program. An X-Windows based and CAD orientated drawing program which generates \TeX output using latexdraw.sty, based on pstricks. The picture may be generated as complete \TeX-source or as a picture-environment to be included in other documents. You must translate the dvi-file generated by \TeX to a postscript-file using dvips before you can view or print the document.

Author: Hans-Jurgen Siegert; CTAN location: support/latexdraw

latexfonts No description available.

latex1 Author: unknown

latexmk Fully automated \TeX document generation routine. A utility written in Perl which deals with the task of running \TeX the appropriate number of times to ensure cross-references, etc., are completely defined. Also supports printing and viewing.

Author: Evan McLean and David J. Musliner; CTAN location: support/latexmk

latexn Run \TeX as many times as needed. A csh script to run \TeX as many times as needed (and hopefully no more) on a given file to resolve cross references, and to ensure that the table of contents and index (if any) are up-to-date.

Author: John Collins; CTAN location: support/latexn

LaTeX-WIDE Multifunctional editor for \TeX in MS-Windows.

Author: YVL; CTAN location: systems/win32/LaTeX_WIDE

latin2jk A definition file for the inputenc package, where all characters from ISO-8859-2 (Latin-2) are loaded as text characters. This allows verbatim setting of Latin-2 encoded files.

Author: Joerg Knappen, Mainz; CTAN location: macros/latex/contrib/support/jknappen

layout Produces an overview of the layout of the current document.

Author: Kent McPherson; CTAN location: macros/latex/required/tools

layouts Display various elements of a document’s layout. This includes: text positioning on a page; disposition of floats; layout of paragraphs, lists, footnotes, table of contents, and sectional headings; font boxes. Facilities are provided for a document designer to experiment with the layout parameters.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/layouts
leaflet  
Create small, single page handouts. A document class to create small handouts that fit on a single sheet of paper which is then folded twice, with a script to rearrange pages so that they print correctly (on a PostScript printer) on a single sheet.
Author: Juergen Schlegelmilch; CTAN location: macros/latex/contrib/supported/leaflet

latex3  
Creates small, single page handouts. A document class to create small handouts that fit on a single sheet of paper which is then folded twice, with a script to rearrange pages so that they print correctly (on a PostScript printer) on a single sheet.

leftidx  
Left subscripts and superscripts in math mode. These subscripts and superscripts are automatically raised for better fitting to the symbol they belong to.
Author: Harald Harders; CTAN location: macros/latex/contrib/other/leftidx

letter  
The standard LaTeX letter document class.
Author: Leslie Lamport, Frank Mittelbach and Rainer Schöpf; CTAN location: macros/latex/base

letterspacing  
Letter spacing.
Author: Philip Taylor; CTAN location: macros/generic

lettrine  
Typeset dropped capitals. Supports various dropped capitals styles, typically those described in the French typographic books.
Author: Daniel Flipo; CTAN location: macros/latex/contrib/supported/lettrine

levy  
Macros for using Silvio Levy’s Greek fonts.
Author: unknown; CTAN location: macros/latex/contrib/other/levy

lexikon  
Implements commands to generate a two-language dictionary.
Author: Axel Kielhorn; CTAN location: macros/latex/contrib/other/lexikon

lgreek  
Macros for using Silvio Levy’s Greek fonts.
Author: unknown; CTAN location: macros/latex/contrib/other/lgreek

lgrid  
Produce beautiful listings of source code with \LaTeX. Lgrind is a descendant of the Unix utility vgrind. It prepares various programming language source code (e.g., C, C plus plus, Pascal, BASIC, Modula-2, Fortran, RATFOR, Yacc, PostScript, Prolog, MLisp, Icon, \LaTeX, Perl, CSH Bourne Shell, assembler, 68000 assembler, asrn68 VMS assembler, ISP, LIDL, Linda, MODEL, MatLab, Russell) for pretty-printing within \LaTeX. Options for producing includable files and pre-processing embedded listings in \LaTeX texts are provided.
Author: Michael Piefel; CTAN location: support/lgrind

lh  
Olga Lapko’s LH fonts. The LH fonts for the ‘T2’/X2 encodings (for cyrillic languages).
Author: Vladimir Volovich; CTAN location: fonts/cyrillic/lh

lhcyr  
A collection of three \LaTeX styles intended for typesetting Russian and bilingual English-Russian documents: lhcyralt, lhcyrkoi, and lhcyrfi.
Author: Vadim V. Zhymnikov; CTAN location: macros/latex/contrib/supported/lhcyr

lhelp  
Miscellaneous helper packages. This package defines macros which are useful for many documents.
Author: Volker Kuhlmann; CTAN location: macros/latex/contrib/supported/lhelp

lilypond  
Support for music notation. GNU LilyPond is a program which converts music definition files into visual or auditive output. LilyPond can typeset formatted sheet music to a \TeX file and (mechanical) performances to MIDI files.
Author: Han-Wen Nienhuys; CTAN location: support/lilypond

limap  
Typeset maps and blocks according to the Information Mapping method. The Information Mapping method provides a methodology for structuring and presenting information. It claims to be useful for readers who are more concerned about finding the right information than reading the document as a whole. Thus short, highly structured, and context free pieces of information are used. A \LaTeX style and a \LaTeX class are provided. The style contains definitions to typeset maps and blocks according to the Information Mapping method. The class provides all definitions to typeset a whole document.
Author: Gerd Neugebauer; CTAN location: macros/latex/contrib/other/gene/limap

linearb  
Linear B script used in the Bronze Age for Mycenaean Greek. The linearb package provides a Metafont version of the Linear B script which was a syllabary used in the Bronze Age for writing Mycenaean Greek. It is one of a series of archaic fonts.
Author: Peter R. Wilson; CTAN location: fonts/archaic/linearb
lineno  Line numbers on paragraphs. Adds line numbers to selected paragraphs with reference possible through the \LaTeX\ ref and \texttt{\textbackslash pageref} cross reference mechanism.

Author: Stephan Boettcher; CTAN location: \texttt{macros/latex/contrib/supported/lineno}

latex3  Format linguist examples. A package to facilitate the formatting of linguist examples, automatically taking care of example numbering, indentations, indexed brackets, and the “*” in grammaticality judgments.

Author: Wolfgang Sternefeld; CTAN location: \texttt{macros/latex/contrib/supported/latex3}

linex  A C program that removes auxiliary \TeX\ and \LaTeX\ files that are usually not needed after a run (log, aux, dvi, files), and only if their modification time is more recent than the source.

Author: Maurizio Loreti; CTAN location: \texttt{support/linex}

lips  Text ellipses in \LaTeX. A \LaTeX\ package defining \texttt{\textbackslash dots}, which generates text ellipses that are closer to what The Chicago Manual of Style suggests than what \texttt{\textbackslash dots} produces. It does the right thing in most circumstances, and so is easier to use, as well.

Author: Matt Swift; CTAN location: \texttt{macros/latex/contrib/supported/linex}

listbib  Lists contents of Bib\TeX\ files for archival purposes. Generates listings of bibliographic data bases in Bib\TeX\ format. This is meant for archival purposes. Included is a listbib.bst which is better suited for this purpose than the standard styles.

Author: Volker Kuhlmann; CTAN location: \texttt{macros/latex/contrib/supported/listbib}

listing  Produce formatted program listings. The listing environment is provided and is similar to figure and table, although it is not a floating environment. Include support for \texttt{\textbackslash caption}, \texttt{\textbackslash label}, \texttt{\textbackslash ref}, and introduces \texttt{\textbackslash listoflistings}, \texttt{\textbackslash listingname}, \texttt{\textbackslash listingname}. It produces a .lol. It does not change \texttt{\textbackslash makecaption} (unless the option “bigcaptions” is used), so packages that change the layout of \texttt{\textbackslash caption} still work.

Author: Volker Kuhlmann; CTAN location: \texttt{macros/latex/contrib/other/misc}

listings  Typeset source code listings using \LaTeX. Type set programming code within \LaTeX. The source code is read directly by \TeX. Keywords, comments and strings can be typeset using different styles, e.g., default is bold for keywords, italic for comments and no special style for strings. Includes support for hyperref.

Author: Carsten Heinz; CTAN location: \texttt{macros/latex/contrib/supported/listings}

lscape  Places selected parts of a document in landscape. Modifies the margins and rotates the page contents but not the page number. Useful, for example, with large multipage tables, and is compatible with dtable and supertabular.

Author: David Carlisle; CTAN location: \texttt{macros/latex/required/graphics}

lshort-english  A (Not So) Short Introduction to \LaTeX\ \textit{2e}.

Author: Tobias Oetiker; CTAN location: \texttt{info/lshort/english}

lshort-finnish  Finnish version of A Short Introduction to \LaTeX\ \textit{2e}  

Author: Timo Hellgren; CTAN location: \texttt{info/lshort/finnish}

lshort-french  French version of A Short Introduction to \LaTeX\ \textit{2e}.

Author: Matthieu Herrb; CTAN location: \texttt{info/lshort/french}
lucold Use old-style digits with Lucida fonts. A package to switch the rendering of all the digits to the so-called “old-style” numbers, when using Lucida fonts. The switch affects all digits in text mode, or all digits in text and math mode. It works both for normal weight and boldface text and math; since the boldface old-style digits are in the “Lucida Expert” font set, you need it for the boldface digits. Includes a set of AWK programs used to automatically build fd, tfm and vf files from the existing Lucida PSNFSS distribution, and that may easily changed for the generation of different virtual files for whatever font.

Author: Maurizio Loreti; CTAN location: macros/latex/contrib/support/lucold

lw35nfsx \( \LaTeX \) psnfss support for the 35 printer resident PostScript fonts using ly1 text font encoding, employing the Berry names. This is similar to the existing lw35nfs.zip support using T1/TS1, but much simpler (lw35nfs.zip is about 150k bytes while lw35nfs.zip is about 800k bytes). It includes needed additions to dvips’s psfonts.map, TFM metric files for \( \LaTeX \), FD font definition files, and STY files for \( \LaTeX \).

Author: Berthold K. P. Horn; CTAN location: fonts/psfonts

ly1 Support for LY1 \( \LaTeX \) encoding, i.e. The Y&Y texnansi (\( \LaTeX \) ‘n ANSI) encoding.

latex3 Author: unknown; CTAN location: macros/latex/contrib/psnfss/ly1

m-pictex Solves the ‘out of dimen’ problem that sometimes occurs when using PiCTEX (especially together with \( \LaTeX \)).

Author: Tobias Burnus; CTAN location: macros/context/cont-tfm

macbibtex \( \LaTeX \) for the Macintosh. A port of the \( \LaTeX \) which is distributed with OzTeX for the Macintosh OS.

Author: Vince Darley; CTAN location: systems/mac/oztex

macgreek Greek language support.

Author: Apostolos Syropoulos; CTAN location: language/greek/package-babel/encodings

magaz Magazine layout. Provides several functions that are used in many magazines’ layout. Current version only does special formatting for the first line of text in a paragraph.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

mailing Macros for mail merging.

latex3 Author: unknown; CTAN location: macros/latex/contrib/psnfss/ly1

makedex The new \texttt{\textbackslash makedex} command always (re)defines a command. The package provides a \texttt{\textbackslash makedex} command, which is like \texttt{\textbackslash (re)newcommand} except it always (re)defines a command. There is also \texttt{\textbackslash makeenvironment} and \texttt{\provideenvironment} for environments.

Author: Peter R. Wilson; CTAN location: macros/latex/contrib/support/makedex

makefonts Shell scripts to generate pk files. This package contains shell scripts which generate the required pk files. Some people prefer to generate a basic set of pk files, leaving the automatic font generation mechanism for more esoteric fonts. This is based on the script aclm.

Author: Volker Kuhlmann; CTAN location: fonts/utilities/makefonts

makeglos Include a glossary into a document. A \( \LaTeX \) package to include a glossary into a document. The glossary must be prepared by an external program, like xindy or makeindex, in the same way that an index is made.

Author: Thomas Henlich; CTAN location: macros/latex/contrib/support/makeglos

makeidx Standard \( \LaTeX \) package for creating indexes.

Author: \( \LaTeX \) Project Team; CTAN location: macros/latex/base

makeindex A general purpose hierarchical index generator; it accepts one or more input files (often produced by a text formatter such as \( \LaTeX \) or troff), sorts the entries, and produces an output file which can be formatted. The formats of the input and output files are specified in a style file; by default, input is assumed to be an idx file, as generated by \( \LaTeX \).

Author: Pehong Chen and Nelson H. F. Beebe; CTAN location: indexing/makeindex

malayalam Fonts for typesetting Malayalam, with a pre-processor.

latex3 Author: Jeroen Hellingman; CTAN location: language/malayalam

malvern A new sans-serif font family.

fonts3 Author: Damian Cugley; CTAN location: fonts/malvern

manfnt \( \LaTeX \) support for the \( \LaTeX \) book symbols. A package for easy access to the symbols of the manfnt, such as Dangerous Bend and Man-errata Arrow.

Author: Axel Kielp; CTAN location: macros/latex/contrib/support/manfnt
manyfoot Implements a command, `\newfootnote`, that adds footnote levels to the standard \(\LaTeX\)'s footnote mechanism. Footnotes of every additional level are automatically grouped together on a \(\LaTeX{} 2\varepsilon\) output page and are separated from another levels by the special vertical spaces. The command `\newfootnote` allows customisation of the way footnotes of additional level be represented in \(\LaTeX{} 2\varepsilon\) documents. Two customisation styles are available now: the plain style is the ordinary \(\LaTeX\)'s style of footnote representation; the para style causes footnotes to be typeset as a run-in paragraph.

Author: A. I. Rozhenko; CTAN location: `macros/\LaTeX/\contrib/\supported/\ncctools`

mapcodes Support for multiple character sets and encodings.
latex3 Author: unknown; CTAN location: `macros/latex/\contrib/\supported/\mapcodes`
maple Styles and examples for the MAPLE newsletter.
latex3 Author: unknown; CTAN location: `macros/\LaTeX/\contrib/\supported/\maple`
margbib A package for displaying bibliography tags in the margins.
latex3 Author: Karsten Tinnefeld; CTAN location: `macros/\LaTeX/\contrib/\supported/\margbib`

marvosym-mac A Macintosh version of the marvosym font. The files include both a PostScript and TrueType version, as well as configuration files to use the font with OzTeX. You still need the marvosym package separately.

Author: Rowland McDonnell; CTAN location: `fonts/psfonts/marvosym/mac`

marvosym A Type 1 font: Martin Vogels Symbole (marvosym) font. Martin Vogel's Symbol (marvosym) font is a font containing: the Euro currency symbol as defined by the European commission; Euro currency symbols in typefaces Times, Helvetica and Courier; Symbols for structural engineering; Symbols for steel cross-sections; Astronomy signs (Sun, Moon, planets); The 12 signs of the zodiac; Scissors symbols; CE sign and others.

Author: Thomas Henlich; CTAN location: `fonts/psfonts/marvosym`

mathcmd Provides a slightly modified version of the commands for making integrals and sums. Moreover, it provides commands to deal with derivatives as vector operators.

Author: Francesco Bosisio; CTAN location: `macros/\LaTeX/\contrib/\supported/bosisio`

mathenv Defines some often useful math-mode environments. The “Equation” environment is defined as having an optional argument used as a label. The “MultiLine” environment is used for long formulas that don’t fit on a single line, but no ampersand mark is needed, since all lines but the first are automatically indented by a predefined amount of space. The “System” environment is for grouping a set of equations with one number and with an enclosing left brace. These two environments also have an optional argument used as a label. All the above environments have a *-form, which does not generate a number.

Author: Francesco Bosisio; CTAN location: `macros/\LaTeX/\contrib/\supported/bosisio`

mathinst A script to create proper math fonts for use by \(\TeX\) and \(\LaTeX\) using one the family of Roman types and the raw math fonts (any of the commercial MathTime, Euler, or Lucida New Math fonts). All fonts are properly scaled for compatibility with the Roman fonts.

Author: Alan Hoenig; CTAN location: `fonts/utilities/mathinst`

mathkit Creates math fonts that match outline fonts (Times Palatino, and others) for typesetting math with \(\TeX\).
Author: Alan Hoenig; CTAN location: `fonts/utilities/mathkit`
mathpazo fonts3 Pazo Math fonts and \LaTeX{} package to typeset Palatino. The Pazo Math fonts are a family of PostScript fonts suitable for typesetting math in combination with the Palatino family of text fonts. The Pazo Math family is made up of five fonts provided in Type1 format (PazoMath, PazoMath-Italic, PazoMath-Bold, PazoMath-BoldItalic, and PazoMathBlackboardBold). These contain, in designs that suit Palatino, glyphs that are usually not available in Palatino and for which Computer Modern looks odd when combined with Palatino. These glyphs include the uppercase Greek alphabet in upright and slanted shapes in regular and bold weights, the lowercase Greek alphabet in slanted shapes in regular and bold weights, several math glyphs (partialdiff, summation, product, coproduct, emptyset, infinity, and proportional) in regular and bold weights, other glyphs (Euro and dotlessi) in upright and slanted shapes in regular and bold weights, and the uppercase letters commonly used to represent various number sets (C, I, N, Q, R, and Z) in blackboard bold. The \LaTeX{} macro package mathpazo.sty defines the Palatino family as the default roman font and uses the virtual mathpazo fonts, built around the Pazo Math family, for typesetting math in a style that suits Palatino.

Author: Diego Puga; CTAN location: \texttt{fonts/mathpazo}

mathppl fonts3 Use PostScript Palatino for typesetting maths. The package defines the PostScript font family ‘Palatino’ (ppl) as the default roman font and then uses the ‘mathppl’ fonts for typesetting math. These virtual fonts have been created for typesetting math in a style that suits the Palatino text fonts. The AMS fonts, when used additionally, will be scaled to fit Palatino.

Author: Walter Schmidt; CTAN location: \texttt{fonts/mathppl}

mathptm fonts3 Extends the usage of the PostScript times fonts to the math environment.

Author: Sebastian Rahtz; CTAN location: \texttt{macros/latex/required/pnmsfss}

mathrsfs fonts3 Mathsrsfs (Ralph Smith’s Fancy Script) font support.

Author: Joerg Knappen; CTAN location: \texttt{macros/latex/contrib/support/jknappen}

mathspad fonts3 An XWindows WYSIWYG structure editor implementing stencils which define two views of a document, the on-screen view and the output view (which might be \TeX, \LaTeX, HTML, troff).

Author: unknown; CTAN location: \texttt{support/mathspad}

mathspic fonts3 An MS-DOS filter program for use with PiCTEX. MathsPIC parses a plain text input file and generates a plain text output-file containing PiCTEX and \TeX{} commands, which can then be \TeX/\LaTeX{}ed in the usual way. It also outputs a comprehensive log-file. MathsPIC facilitates creating figures using PiCTEX by providing an environment for manipulating named points and also allows the use of variables and maths (advance, multiply, and divide) - in short - it takes the pain out of PiCTEX.

Author: Dick Nickalls; CTAN location: \texttt{graphics/pictex/mathspic}

mathtime fonts3 The Mathtime fonts have a number of characters remapped to positions different from the ones normally used by the corresponding \TeX\ CSFonts. For the symbol font “operators” the corresponding mathtime style files use the Times Roman font (often called something like: ptmr or ptm7t or ptmrq).

Author: Aloysius Helminck; CTAN location: \texttt{fonts/metrics/adobe/mathtime}

matlabweb fonts3 Literate programming system for Matlab. A literate programming system for the Matlab language. Similar to CWEB, created with a slightly modified version of the Spider system. Can be used with plain \TeX or \LaTeX, the latter with help from the webfiles package.

Author: Mark Potse; CTAN location: \texttt{web/matlabweb}

mcite fonts3 Support for collapsing multiple citations into one, as customary in physics journals.

Author: unknown; CTAN location: \texttt{macros/latex/contrib/support/mcite}

mdwtools fonts3 Miscellaneous tools by Mark Wooding. This collection of tools includes support for \TeX{}, a doafter command, footnotes, mathenv for various alignment in maths, list handling, trivial maths oddments, rewrite of \LaTeX{}’s tabular and array environments, verbatim handling, and syntax diagrams.

Author: Mark Wooding; CTAN location: \texttt{macros/latex/contrib/support/mdwtools}

meta-mode fonts3 A GNU Emacs Lisp package that implements a major mode for editing MetaFont or MetaPost sources. It provides many features commonly found in Emacs editing modes for programming languages, such as automatic indenting of source code, syntactic highlighting (a.k.a. fontification), symbol completion, as well as miscellaneous other basic editing functions adapted to the mode-specific semantics such as motion commands or commands to mark, reindent, or comment-out environments or regions.

Author: Ulrik Vieth; CTAN location: \texttt{support/emacs-modes}

metafp fonts3 Some Experiences in Running METAFONT and MetaPost.

Author: Peter R. Wilson; CTAN location: \texttt{info}
metapost
A tool based on MetaFont for producing precise technical illustrations, creating scalable PostScript instead of bitmaps.
Author: John Hobby; CTAN location: graphics/metapost

method
Typeset method and variable declarations. This \LaTeX package supports the typesetting of programming language method and variable declarations. It includes an option to typeset in French.
Author: Thomas Leineweber; CTAN location: macros/latex/contrib/supported/method

mex
A Polish format for \TeX. MeX is an adaptation of Plain \TeX and E\TeX X209 formats to the Polish language and to the Polish printing customs. It contains a complete set of MetaFont sources of Polish fonts, hyphenation rules for the Polish language and sources of formats.
Author: B. Jackowski, M. Rycko; CTAN location: language/polish

mf-ps
A MetaFont-PostScript link. A MetaFont package including: epstomf a tiny AWK script for converting EPS files into MF lingo; and mftoeps for generating (encapsulated) PostScript files readable, e.g., by CorelDRAW!, Adobe Illustrator and Fontographer. MetaFont writes PostScript code to a LOG-file, and from the LOG-file the code can be extracted by either \TeX or AWK.
Author: B. Jackowski; CTAN location: graphics/MF-PS

mf2pt3
Perl script to generate PostScript Type 3 fonts from MetaFont sources by processing MetaPost output.
Author: Apostolos Syropoulos; CTAN location: fonts/utilities/mf2pt3

mff
A package to provide something similar to ‘multiple master’ fonts, but using MetaFont; you specify a font by a set of MetaFont parameters, and \TeX makes up an mf file to generate the required font; this package is not integrated with NFSS (or MakeTeXTFM) yet fun.
Author: Sasha Berdnikov; CTAN location: macros/latex/contrib/supported/mff

mflogo
\I\TeX support for MetaFont and logo fonts. \I\TeX package and font definition file to access the Knuthian ‘logo’ fonts described in ‘The MetaFontbook’ and the MetaFont and logos in \I\TeX documents.
(CTAN:fonts/mflogo).
Author: Ulrik Vieth; CTAN location: macros/latex/contrib/supported/mflogo

mfnss
Font description files to use extra fonts like yinit and ygoth.

mf2tex
A package of macros in \TeX and MetaFont which allows a user to easily add labels to MetaFont sources (text or mathematics). Normally you can only draw in MetaFont and all labels you must write into the \TeX source before (or after) inserting the picture. This package allows you to write \TeX labels straight into the MetaFont source and to generate corresponding \TeX source.
Author: Robert Spalek; CTAN location: graphics-mf2tex

mhequ
Multicolumn equations, tags, labels, sub-numbering. MHequ simplifies the creation of multi-column equation environments, and to tag the equations therein. It supports sub-numbers of blocks of equations (like (1.2a), (1.2b), etc.) and references to each equation individually (1.2a) or to the whole block (1.2). The labels can be shown in draft mode.
Author: Martin Hairer; CTAN location: macros/latex/contrib/other/mhequ

mhs
No description available.

midnight
A set of useful macro tools.

miktex
A free \TeX distribution for MS-Windows-NT.

miktex-axp
A port of MiKTeX to MS-Windows-NT on the Alpha.

miktex-axp
A free \TeX distribution for MS-Windows32. A distribution of \TeX and friends for MS-Windows95 and MS-Windows-NT. Features include easy installation and configuration, and full \TeX and \E\TeX support. MiKTeX includes a ‘basic’ distribution which is a (useful) sub-set of the complete distribution removing pdf\TeX, Computer Modern PostScript Fonts, AMSFonts, PostScript Fonts, MetaPost Texinfo, Makeinfo, and Web. The TEXMF tree is a subset of the standard \TeXTEXMF. A command-line utility, ‘texify’, simplifies the production of DVI (PDF) documents by automatically invoking \I\TeX (pdf\I\TeX), Makeindex, and Bib\TeX as many times as necessary to produce a DVI (PDF) file with sorted indices and all cross-references resolved.
Author: Christian Schenk; CTAN location: systems/win32/miktex-AXP
mil3  Samples from Math into \LaTeX.
Author: George Gratze; CTAN location: info/mil3

miniltx  Part of the plain \TeX{} graphics collection which allows the use of \LaTeX{}’s graphics, colour, and picture mode commands in plain \TeX{} based formats.
Author: David Carlisle; CTAN location: macros/plain/graphics

minitoc  Produce a table of contents for each chapter.
latex3  Author: Jean-Pierre Drucbert; CTAN location: macros/latex/contrib/supported/minitoc

minutes  Package for writing minutes of meetings. Supports the creation of a collection of minutes. Features include: Support of tasks (who, schedule, what, time of finishing; possibility of creating a list of open tasks; inclusion of open tasks from other minutes); Support of attachments; Support of schedule dates (in planning; support of calendar.sty); Different versions (‘secret parts’); Macros for votes and decisions (list of decisions).
Author: Knut Lickert; CTAN location: macros/latex/contrib/supported/minutes

miml  PostScript mirror header (for dvips). A small header for making a mirror of dvipsed files.
generic2  Author: BOP; CTAN location: macros/generic/TeX-PS

mitpress  Support for MIT Press.
Author: unknown; CTAN location: macros/latex209/contrib/misc

mkpic  A Perl interface to mfpic making it possible to enter simple commands with tab separated arguments and without braces/brackets to design figures. The script produces a style file, mkpic.sty, containing one \LaTeX{} command for each picture.
Author: Wybo H. Dekker; CTAN location: support/mkpic

mla  A bibliography style for the Modern Language Association’s manual of style.
Author: Thomas Weissert; CTAN location: biblio/bibtex/contrib/mla

mlbib  Support for multilingual bibliographies.
Author: Wenzel Matiaske; CTAN location: macros/latex/contrib/supported/mlbib

mltex  Support for ML\TeX{}, the multilingual \TeX{} extension from Michael J. Ferguson.
latex2  Author: Bernd Raichle; CTAN location: macros/latex/contrib/supported/mltex

mnafm  Font metrics for multiple-master font. Creates an AFM file (font metrics) corresponding to an instance of a multiple-master font by interpolating at a given point in a multiple master’s design space. It reads the AMFM and AFM files distributed with the font.
Author: Eddie Kohler; CTAN location: fonts/utilities/mmtools

mmpfb  Create instance of multiple-master font. Creates a normal, single-master font program which looks like an instance of a multiple-master font. It reads the multiple master font program in PFA or PFB format.
Author: Eddie Kohler; CTAN location: fonts/utilities/mmtools

mmtools  Multiple master fonts tools. Two tools for working with multiple master fonts: mnafm creates an AFM by interpolating at a given point in a multiple master’s design space; mmpfb creates a “normal” PFB font by interpolating at a given point in a multiple master’s design space.
Author: Eddie Kohler; CTAN location: fonts/utilities/mmtools

plain3  Author: unknown; CTAN location: macros/latex209/contrib/mnras

modes  A collection of MetaFont mode definitions. Also includes common definitions for write/white printers, ‘special’ information, and landscape mode.
Author: Karl Berry; CTAN location: fonts/modes

monotype  Font metrics, and macro support in \LaTeX{} 2ε, for a large set of Monotype fonts.
fonts3  Author: unknown; CTAN location: fonts/pfonts/monotype

montex  Mongolian \LaTeX{}.
MonTeX provides Mongolian support for \LaTeX{} 2ε (now Cyrillic, but soon also Classical Mongolian).
Author: Oliver Corff; CTAN location: language/mongolian/montex

lang3  Classical Mongolian.
latex3  Author: Matt Swift; CTAN location: macros/latex/contrib/supported/frankenstein
morefloats Increase the number of simultaneous \LaTeX{} floats. \LaTeX{} can, by default, only cope with 18 outstanding floats; any more, and you get a ‘too many unprocessed floats’ error. This package increases that limit to 36 outstanding floats. However, if you’re specifying floats that can’t be placed anywhere, the package merely delays the arrival of the error message.

Author: Don Hosek; CTAN location: macros/latex209/contrib/misc

morehelp A package to enhance \LaTeX{} error messages by providing descriptions of the possible causes including those that may not be obvious. This style is effectively an online substitute for error lists found in the \LaTeX{} books, although it cannot completely replace them. Only true \LaTeX{} errors are included; \TeX{} errors are beyond the reach of ordinary macros.

Author: Olaf Kummer; CTAN location: macros/latex/contrib/supported/morehelp

moresize Allows font sizes up to 35.83pt. A package for using font sizes up to 35.83pt, for example with the new EC fonts. New commands \texttt{\Huge} and \texttt{\small} for selecting font sizes are provided together with some options working around current \LaTeX{} \texttt{2e} shortcomings in using big font sizes. The package also provides options for improving the typesetting of paragraphs (or headlines) with embedded math expressions at font sizes above 17.28pt.

Author: Christian Cornelssen; CTAN location: macros/latex/contrib/other/moresize

moreverb Extended verbatim. A verbatim mode that can handle TABs properly, can number lines, can number lines in an included file, can produce boxed verbatims, etc.

Author: Robin Fairbairns, Angus Duggan, Rainer Schoepf and Victor Eijkhout; CTAN location: macros/latex/contrib/supported/moreverb

morse A package for printing Morse code signs.

Author: unknown; CTAN location: fonts/morse

mparhack A workaround for the \LaTeX{} bug in marginpars. Implements a workaround for the \LaTeX{} bug that marginpars will sometimes come out at the wrong margin.

Author: Stefan Ulrich; CTAN location: macros/latex/contrib/supported/mparhack

mpattern Patterns in MetaPost. A package for defining and using patterns in MetaPost, using the Pattern Color Space available in PostScript Level 2.

Author: Piotr Bolek; CTAN location: graphics/metapost/macros/mpattern

mpfnmark A package which provides the command \texttt{\mpfootnotemark}, which can be used in the same way as \texttt{\footnotemark}. The difference between these two macros is that within minipage environments the latter uses the standard footnote marker style (defined by \texttt{\thefootnote}), while the new command uses the minipage footnote marker style (defined by \texttt{\thempfootnote}).

Author: Wolfgang Kowarschick; CTAN location: macros/latex/contrib/other/mpfnmark

ms Various \LaTeX{} packages by Martin Schröder.

Author: Martin Schröder; CTAN location: macros/latex/contrib/supported/ms/contrib

mslapa \LaTeX{} and \bibTeX{} style files for a respectably close approximation to APA (American Psychological Association) citation and reference style.

Author: unknown; CTAN location: macros/latex/contrib/supported/mslapa

mt11p A package to use the MathTime and MathTimePLUS (“MathTime complete”) fonts in \LaTeX{} \texttt{2e}. Everything is included, incl. (patched) font metrics, except, of course, the fonts themselves. The package cooperates with the AMS packages (amsmath, amssymb, etc.) T1 and OT1 encodings (as operator fonts!) are fully supported. It does not assume you own any other commercial (non-resident) fonts. This package has no connection with the “mathtime” package by Frank Mittelbach and David Carlisle, commissioned by Y&Y.

Author: Drahoslav Lim; CTAN location: fonts/mt11p

mtbe Examples from Mathematical \TeX{} by Example by Arvind Borde.

Author: unknown; CTAN location: macros/plain/contrib/mtbe

multenum Multi-column enumerated lists.

Author: unknown; CTAN location: macros/latex/contrib/supported/multenum

multibib Multiple bibliographies within one document. Allows the creation of references to multiple bibliographies within one document. It thus provides complementary functionality to packages like bibunits and chapterbib, which allow the creation of one bibliography for multiple, but different parts of the document. It is compatible with inlinebib, natbib, and koma-script.

Author: Thorsten Hansen; CTAN location: macros/latex/contrib/supported/multibib
multicol  Intermix single and multiple columns. This package allows, for example, to shift between two and one columns anywhere.  
Author: Frank Mittelbach; CTAN location: macros/latex/required/tools

multido  A loop facility for Generic \TeX.  
Author: Timothy Van Zandt; CTAN location: macros/generic/multido

multirow  Creates tabular cells spanning multiple rows. Includes an option for specifying multirows with a “natural” column width.  
Author: Piet van Oostrum; CTAN location: macros/latex/contrib/supported/multirow

latex3  \texttt{latex3} \texttt{f}ormat algorithms like Cormen, Leiserson and Rivest.  
Author: Alexander Rozhenko; CTAN location: macros/latex/contrib/supported/muthesis

musictex  \texttt{musictex} \texttt{g}eneric 3 \texttt{f}or typesetting music with \TeX.  
Author: unknown; CTAN location: macros/latex/contrib/supported/musictex

muthesis  \texttt{muthesis} \texttt{d}ocument classes for University of Manchester Department of Computer Science. Includes thesis and project report document classes from the University of Manchester’s Department of Computer Science.  
Author: Martin Schroeder; CTAN location: macros/latex/contrib/supported/muthesis

mylatex  \texttt{mylatex} \texttt{m}y \texttt{latex}.  
Author: David Carlisle; CTAN location: macros/latex/contrib/supported/mylatex

myletter  Another \texttt{letter} package.  
Author: unknown; CTAN location: macros/latex/contrib/supported/myletter

ncctools  Various \texttt{latex3} packages written and supported by Alexander Rozhenko.  
Author: Alexander Rozhenko; CTAN location: macros/latex/contrib/supported/ncctools

needspace  Insert pagebreak if not enough space. Provides a command to disable pagebreaking within a given vertical space. If there is not enough space between the command and the bottom of the page, a new page will be started.  
Author: Peter R Wilson; CTAN location: macros/latex/contrib/supported/misc

nestquote  Alternate quotes between double and single with nesting. Provides two new commands: \texttt{nlq} and \texttt{nrq} for nesting left and right quotes that properly change between double and single quotes according to their nesting level, e.g. the input \texttt{nlq} \texttt{Foo} \texttt{nrq} \texttt{bar} \texttt{nrq} \texttt{bletch} \texttt{nrq} will be typeset as if it had been entered as “Foo ‘bar’ bletch”.  
Author: Florian Hars; CTAN location: macros/latex/contrib/other

newalg  Format algorithms like Cormen, Leiserson and Rivest.  
Author: unknown; CTAN location: macros/latex/contrib/supported/newalg

newclude  New \texttt{\include} system for \texttt{latex3}. New \texttt{\include} system for \texttt{latex3}. A \texttt{latex3} package providing a backwards-compatible reimplementation of \texttt{\include} and \texttt{\includeonly}. The restriction that \texttt{\clearpage} must surround an included file are removed, as is the restriction that \texttt{\includes} cannot be nested. An optional argument to \texttt{\include} is executed before the included file, whenever it is processed. This package is useful but may have problems and is unsupported. Newclude and includex are both attempts to provide similar features. Newclude is more ambitious, but includex is still more successful in certain ways.  
Author: Matt Swift; CTAN location: macros/latex/contrib/supported/newclude
newlfm

Write letters, facsimilies, and memos. Integrates the letter class with fancyhdr and geometry to automatically make letterhead stationary. Useful for writing letters, fax, and memos. You can set up an address book using “wrapper” macros. You put all the information for a person into a wrapper and then put the wrapper in a document. The class handles letterheads automatically. You place the object for the letterhead (picture, information, etc.) in a box and all sizing is set automatically.

Author: Paul Thompson; CTAN location: macros/latex/contrib/supported/newlfm

newsletr

Macros for making newsletters.

Author: unknown; CTAN location: macros/plain/contrib/newsletr

newthm

A modified version of the theorem-style which provides generation of lists of theorems. This has been superseded by ntheorem.

Author: Andreas Schlechte; CTAN location: macros/latex/contrib/other/newthm

newvbtm

Define your own verbatim-like environment. Defines general purpose macro named \newverbatim to provide set of macros for variants of verbatim, such as tab emulation.

Author: Hiroshi Nakashima; CTAN location: macros/latex/contrib/supported/newvbtm

nextpage

Generalisations of the \clear...page and \newpage commands.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/misc

niceframe

Support for fancy framing of pages.

latex3

Author: unknown; CTAN location: macros/latex/contrib/supported/niceframe

nomencl

Produce lists of symbols as in nomenclature. Produces lists of symbols using the capabilities of the MakeIndex program.

Author: Bernd Schandl; CTAN location: macros/latex/contrib/supported/nomencl

nonfloat

Non-floating table and figure captions. Adjusts the figure and table environments to ensure that centered objects as one line captions are centered as well. Also the vertical spaces for table captions above the table are changed.

Author: Kai Rasche; CTAN location: macros/latex/contrib/supported/nonfloat

nopageno

No page numbers in \LaTeX{} documents. \LaTeX{}’s standard styles use two page styles, one on normal pages and one on ‘opening’ pages with \maketitle or \chapter etc. Unfortunately there is only easy access to changing one of these two so if you want something other than ‘plain’ on the opening pages you must use \thispagestyle on each such page. The fancyhdr package does provide a more flexible interface, but if you just want an empty page style on all pages then this package will do the job.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

nоребib

Norwegian adaption of the four standard Bib\TeX{} style files.

Author: Dag Langmyhr; CTAN location: biblio/bibtex/contrib/norbib

notoccite

Prevent erroneous numbering of cites when using Bib\TeX{}/unsrt.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

nrc

Format of the NRC Canadian Journal of Physics.

latex3

Author: Robin Fairbairns; CTAN location: macros/latex/contrib/supported/nrc

ntabbing

Simple tabbing extension for automatic line numbering. An extension of the tabbing environment that supports automatic line numbering. The lines can be referenced using the standard \label and \ref mechanism.

Author: Gideon Stupp; CTAN location: macros/latex/contrib/supported/ntabbing

ntg

Dutch \TeX{} Users Group information.

doc3

Author: unknown

ntgclass

Versions of the standard \TeX{} article and report classes, rewritten to reflect a more European design, by the Dutch \TeX{} Users Group.

latex3

Author: unknown; CTAN location: macros/latex/contrib/supported/ntgclass

ntheorem

Enhanced theorem environment. Enhancements for theorem-like environments: easier control of layout; proper placement of endmarks even when the environment ends with \end{enumerate} or \end{displaymath} (including support for amsmath displayed-equation environments); and support for making a list of theorems like \listoffigures.

Author: Wolfgang Andreas Schlechte; CTAN location: macros/latex/contrib/supported/ntheorem

numline

Macros for numbering lines.

latex3

Author: unknown; CTAN location: macros/latex/contrib/supported/numline
oands Characters used as symbols when transliterating ancient scripts.  
Author: Peter R Wilson; CTAN location: fonts/archaic/oands

objectz Macros for typesetting Object Z.  
latex3 Author: unknown; CTAN location: macros/latex/contrib/supported/objectz

oca OCR font.  
latex3 Author: unknown; CTAN location: fonts/oca

ochem Typeset chemical formulae with \LaTeX. A perl script to translate chemical formulae and reaction schemes into PostScript or \LaTeX. Includes a \LaTeX package to include the chemical reaction description in a \LaTeX document.  
Author: Ingo Kloeckl; CTAN location: support/ochem

ocr-a Fonts for OCR-A.  
fonts3 Author: unknown; CTAN location: fonts/ocr-a

ocr-b Fonts for OCR-B.  
Author: unknown; CTAN location: fonts/ocr-b

ogham Fonts for typesetting Ogham script.  
fonts3 Author: unknown; CTAN location: fonts/ogham

ogonek Support for Polish typography and the ogonek.  
latex3 Author: unknown; CTAN location: macros/latex/contrib/other/ogonek

oldstyle Font information needed to load the cmr10 and cmr10 fonts for use to produce oldstyle numbers.  
latex3 Author: unknown; CTAN location: macros/latex/contrib/other/oldstyle

omega Omega.  
Author: Yannis Haralambous and John Plaice; CTAN location: systems/omega

omegabase Basic support files for Omega.  
omega2 Author: unknown

omegafonts Omega fonts.  
omega2 Author: unknown

onepagem If the document has only one page, omit page number. The page number must be produced by the usual means of \texttt{\thepage}. Requires two passes through to have effect.  
Author: Mike Piff; CTAN location: macros/latex/contrib/supported/piff

optional Facilitate optional printing of parts of a document.  
Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

oriya Typesetting the Oriya script using \LaTeX.  
Author: Jeroen Hellingman; CTAN location: language/oriya

oryia Typesetting the Oriya script using \LaTeX.  
Author: Jeroen Hellingman; CTAN location: language/oriya

os2tex A distribution of \TeX for OS/2 Warp.  
Author: Juergen Kleinboehl; CTAN location: systems/os2/os2tex

osmanian Osmanian fonts by Alan Stanier for writing Somali.  
fonts3 Author: unknown; CTAN location: fonts/osmanian

ot2cyr Macros to use the OT2 Cyrillic encoding.  
fonts2 Author: unknown; CTAN location: fonts/cyrillic/ot2cyr

outliner Change section levels easily. Allows you to write \texttt{\texttt{\texttt{Level 2 \{Some heading\} instead of the usual \texttt{\section stuff; the definitions of the levels can then easily be changed. There is a mechanism for shifting all levels. This makes it easy to bundle existing articles into a compilation.  
Author: Victor Eijkhout; CTAN location: macros/latex/contrib/supported/outliner

overcite Compressed lists of superscript numerical citations.  
Author: Donald Arseneau; CTAN location: macros/latex/contrib/supported/cite

overpic Combine \LaTeX commands over included graphics. The overpic environment is a cross between the \LaTeX picture environment and the \texttt{\includegraphics} command of graphicx. The resulting picture environment has the same dimensions as the included eps graphic. \LaTeX commands can be placed on the graphic at defined positions. A grid for orientation is available.  
Author: Rolf Niepraschk; CTAN location: macros/latex/contrib/supported/overpic
overword Provides two macros which can be used as building blocks for the parsing of text. For an example of their use, see the calendar package.

Author: Frank Bennett; CTAN location: macros/latex/contrib/supported/overword

oxford A Bt\TeX style of citations for the humanities. It implements the Oxford style interpreted through the eye of a Swede working in the field of the history of ideas. It is based on Harvard and a heavily hacked bst-file generated with custom-bib. It currently only supports \cite{} and \citeonly{} and only in abbreviation mode.

Author: Peter Antman; CTAN location: biblio/bibtex/contrib/oxford

biblatex3 A \BibTeXstyleofcitationsforthehumanities. It implementstheOxfordstyleinterpretedthroughtheeyeofaSwede workinginthefieldofthehistoryofideas. It isbasedonHarvardandahighlyhackedbst-filegeneratedwithcustom-bib. It currently only supports \cite{} and \citeonly{} and only in abbreviation mode.

Author: Peter Antman; CTAN location: biblio/bibtex/contrib/oxford

pandey Support for the Bengali language.

Author: Anshuman Pandey; CTAN location: language/bengali/pandey

pandora The Pandora font family.

Author: Neenie Billawalla; CTAN location: fonts/pandora

papyrus A class derived from article, tuned for producing papers for journals. Introduces new layout options and font commands for sections/parts. Defines a new keywords environment, and subtitle and institution commands for the title section. New commands for revisions. And more.

Author: Wenzel Matiaske; CTAN location: macros/latex/contrib/supported/papyrus

paralist Enumerate and itemize within paragraphs. Provides enumerate and itemize environments that can be used within paragraphs to format the items either as running text or as separate paragraphs with a preceding number or symbol.

Author: Bernd Schandl; CTAN location: macros/latex/contrib/supported/paralist

parallel Provides a parallel environment which allows two columns of text to be typeset. Useful for typesetting two languages side-by-side.

Author: unknown; CTAN location: macros/latex/contrib/supported/parallel

parskip Layout with zero \parskip, non-zero \parindent. Simply changing \parskip and \parindent leaves a layout that is untidy; this package (though it is no substitute for a properly-designed class) helps alleviate this untidiness.

Author: Robin Fairbairns; CTAN location: macros/latex/contrib/other/misc

passivetex Support package for XML/SGML typesetting Packages providing XML parsing, UTF-8 parsing, Unicode entities, and common formatting object definitions for Jade\TeX.

Author: Sebastian Rahtz; CTAN location: macros/passivetex

patch Macros for package management.

Author: unknown

path A \LaTeX package to break long strings at convenient places. The strings might be directory paths, email addresses, URLs, etc.

Author: Philip Taylor; CTAN location: macros/epplain

pawpict Using graphics from PAW. Support for the easy inclusion of graphics made by PAW (Physics Analysis Workstation). You need to have PAW installed on your system to benefit from this package. This package is now obsolete and will not be supported anymore.

Author: Christian Holm; CTAN location: macros/latex/contrib/other/pawpict
pb-diagram A diagram package using LAMSTeX or Xy-pic fonts.

AdiagrampackageusingLAMS

Author: Paul Burchard; CTAN location: macros/latex/contrib/supported/pb-diagram

pbmtogf Convert pbm images to gf font files. A utility to convert a pbm (portable bitmap) file to a gf (font) and a pl (perl) file, effectively creating a font from the bitmap. The font can then be used in any \TeX/\LaTeX files.

Author: Wai Wong; CTAN location: fonts/utilities/pbmtogf

pcfonts Support for Hebrew.

Author: Rama Porrat; CTAN location: language/hebrew/fonts/pccode

pdcmac Damian Cugley’s macro tools.

Author: unknown; CTAN location: macros/plain/contrib/pdcmac

pdfscreen Support screen-based document design. An extension of the hyperref package to provide a screen-based document design. This package helps to generate pdf documents that are readable on screen and will fit the screen’s aspect ratio. Also it can be used with various options to produce regular print versions of the same document without any extra effort.

Author: C. V. Radhakrishnan; CTAN location: macros/latex/contrib/supported/pdfscreen

pdfslide Presentation slides using pdftex. This is a package for use with pdftex, to make nice presentation slides. Its aims are: to devise a method for easier technical presentation; to help the mix of mathematical formulae with text and graphics which the present day wysiwyg tools fail to accomplish; to exploit the platform independence of \TeX so that presentation documents become portable; and to offer the freedom and possibilities of using various backgrounds and other embellishments that a user can imagine to have in as presentation.

Author: C. V. Radhakrishnan; CTAN location: macros/latex/contrib/supported/pdfslide

pdftex-djgpp A PDF\TeX executable compiled with DJGPP v.2.01, to be used with the DJGPP v.2.01 port of web2c for MS-DOS and MS-Windows 95.

Author: Weiqi Gao; CTAN location: systems/pdftex/bin/DJGPP

pdftex Generate PDF from \TeX directly. An extension of \TeX which directly generates PDF documents instead of DVI. This is under development and regarded as beta software. It is, non-the-less, quite reliable, and produces good PDF. Various \TeX distributions, including teTeX and MiKTeX include pdftex and pdflatex.

Author: unknown; CTAN location: systems/pdftex

pdftex˙oztex Pdf\TeX designed to run with OzTeX.

Author: Tom Kiffe; CTAN location: systems/mac/pdftex

permute Support for symmetric groups. A package for symmetric groups, allowing you to input, output, and calculate with them.

Author: Carsten Heinz; CTAN location: macros/latex/contrib/supported/permute

pf2afm AFM generator for Adobe Type 1 fonts. A PostScript program for generating missing AFM files from PFB/PFA and optionally PFM font files.

Author: BOP; CTAN location: fonts/utilities/pf2afm

phoenician Fonts for the semitic script in use from about 1600 BC. This font formed the basis for all the world’s alphabets. Mirrored forms are provided for typesetting either left-to-right or right-to-left (as the Phoenicians did).

Author: Peter Wilson; CTAN location: fonts/archaic/phoenician

phonetic MetaFont Phonetic fonts, based on Computer Modern.

Author: unknown; CTAN location: fonts/phonetic

photo A float environment for photographs. This package introduces a new float type called photo which works similarly to the float types table and figure. Various options exist for placing photos, captions, and a “photographer” line. In twocolumn documents, a possibility exists to generate double-column floats automatically if the photo does not fit into one column. Photos do not have to be placed as floats, they can also be placed as boxes, with captions and photographer line still being available.

Author: Volker Kuhlmann; CTAN location: macros/latex/contrib/supported/photo

phppcf A Bi\TeX style derived from apalike with author names in all caps.

Author: unknown; CTAN location: macros/latex/contrib/supported/photo

physe PHYSE format.

Author: unknown; CTAN location: biblio/bibtex/contrib

formats3 Author: unknown; CTAN location: macros/physe
phyzzx  A \TeX{} format for physicists.

formats3  Author: unknown; CTAN location: macros/phyzzx

picinpar  Insert pictures into paragraphs.  (NOTE: Piet van Oostrum does not recommend this package. Picins is recommended instead.)

latex3   Author: unknown; CTAN location: macros/latex209/contrib/picinpar

picins   Insert pictures into paragraphs.

latex3   Author: unknown; CTAN location: macros/latex209/contrib/picins

pictex   Picture drawing macros for \TeX{} and \LaTeX{}.  

graphics2  Author: unknown; CTAN location: graphics/pictex

pictex2  Adds relative coords and rules for dots in plots.  Adds two user commands to standard \PiCTeX.  One command uses relative coordinates, thus eliminating the need to calculate the coordinate of every point manually as in standard \PiCTeX. The other command modifies \texttt{\plot} to use a rule instead of dots if the line segment is horizontal or vertical.

Author: William Park; CTAN location: macros/latex/contrib/supported/pictex2

piff  Macro tools by Mike Piff.

latex3  Author: Mike Piff; CTAN location: macros/latex/contrib/supported/piff

piq  MetaFont package for the Klingon language with okuda orthography.

Author: Olaf Kummer; CTAN location: fonts/okuda/modified

pitthesis  Document class for University of Pittsburgh theses.

latex3  Author: Wonkoo Kim; CTAN location: macros/latex/contrib/supported/pitthesis

pkfind  The TDS standard specifies that pk and gf files contain \texttt{\special} strings to identify the contents of pk and gf files. Pkfind is a variant of the GNU find utility modified to understand those specials, and to act on them in some cases. For example, it can be used to delete all pk files created by gsftopk from a subdirectory tree.

Author: Paul Vojta; CTAN location: systems/unix/pkfind

pl-mf  Polish extension of Computer Modern fonts in MF sources. The Polish extension of Computer fonts2 Modern fonts (compatible with CMs); to be used with Polish \TeX{} formats; actually, a part of MeX distribution.

Author: B. Jackowski and M. Rycko; CTAN location: language/polish

pl-qx  \LaTeX{} support for extra Polish fonts (antyktor, qfonts).  \LaTeX{} support (fd, sty files) for extra Polish fonts (antyktor, qfonts).

Author: Piotr Klosowski; CTAN location: fonts/psfonts/polish

plaiter Programming for Prolog with \LaTeX{}.

latex3  Author: unknown; CTAN location: macros/latex/contrib/other/gene/pl

placeins  Control float placement. Defines a \texttt{\FloatBarrier} command, beyond which floats may not pass; useful, for example, to ensure all floats for a section appear before the next \texttt{\section} command.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

plain  Make plain \TeX{} files \LaTeX{}able.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

plainmisc  Miscellaneous useful macros for plain \TeX{}.

plain2  Author: unknown; CTAN location: macros/plain/contrib/misc

plaintext  Basic Plain \TeX{} macros.

plain1  Author: Donald Knuth

plari  A document class for typesetting stageplay scripts.

latex3  Author: Antti-Juhani Kaijanaho; CTAN location: macros/latex/contrib/supported/plari

platex  Typeset Polish documents with \LaTeX{} and Polish fonts. Tools to typeset documents in Polish using lang2 \LaTeX{} 2e with Polish fonts (so-called PL fonts), or EC fonts, and CM fonts.

Author: M. Olko and M. Wolinski; CTAN location: language/polish

play  Typeset plays. A class and style file that supports the typesetting of plays, including options for line numbering.

Author: James Kilfiger; CTAN location: macros/latex/contrib/supported/play

plcalendar  Plain macros for making nice calendars.

plain3  Author: unknown; CTAN location: macros/plain/contrib/calendar
<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
<th>Author</th>
<th>CTAN Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>plfonts</td>
<td>Polish extension to CM fonts. Polish extension of Computer Modern fonts. These fonts are compatible with CM fonts; only Polish characters (as in EC/Cork encoding) and quotes are added. The fonts are distributed in METAFONT sources and in Type1 format.</td>
<td>Multiple authors</td>
<td>language/polish</td>
</tr>
<tr>
<td>fonts2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>plfonts</td>
<td>Polish extension of Computer Modern fonts. PL fonts in Type1 (PostScript) format. Fonts use the same .tfm files as for .pk fonts generated by MetaFont. The new release of fonts was eventually adapted to the (mostly guessed) demands of the Windows environment. Still, the fonts are usable with \TeX; however, encoding files are now added, as Windows and \TeX use different encoding schemes.</td>
<td>J. Nowacki</td>
<td>language/polish/plpsfont</td>
</tr>
<tr>
<td>fonts2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pmcstex</td>
<td>\LaTeX in emTeX IDE/FrontEnd for EPM. A macro package that implements many (em)\TeX related features for the OS2 EPM editor. A menu item is added to the EPM menu, a new toolbar is provided, and hotkeys for some (La)\TeX commands are defined.</td>
<td>Petr Mikulik</td>
<td>systems/os2/pmcstex</td>
</tr>
<tr>
<td>pmgraph</td>
<td>A set of extensions to \LaTeX picture environment, including a wider range of vectors, and a lot more box frame styles.</td>
<td>Sasha Berdnikov</td>
<td>macros/latex/contrib/supported/pmgraph</td>
</tr>
<tr>
<td>latex3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pmgraph</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>poligrapf</td>
<td>\TeX macro package for prepress. A set of macros (employing PostScript) for the professional page preparation for prepress; includes color separation, crop-marks, color and gray scale bars, booklet preparation, etc.</td>
<td>Janusz M. Nowacki</td>
<td>macros/generic/Tex-PS/poligrapf</td>
</tr>
<tr>
<td>generic3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>poligrapf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>polish-doc</td>
<td>General \TeX and \LaTeX documentation in Polish.</td>
<td>Manypeople</td>
<td></td>
</tr>
<tr>
<td>doc3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>polyglot</td>
<td>A package for \LaTeX2ε multilingual support.</td>
<td>Javier Bezos</td>
<td>macros/latex/contrib/other/polyglot</td>
</tr>
<tr>
<td>latex3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>polyglot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>postcards</td>
<td>Facilitates mass-mailing of postcards (junkmail). A modification of the standard \LaTeX letter class which prints multiple, pre-stamped, 5.5′′ by 3.5′′ postcards (a US standard size) via the envlab and mailing packages. An address database is employed to address the front side of each postcard and a message is printed on the back side of all. An illustrative example is provided.</td>
<td>Bil Kleb</td>
<td>macros/latex/contrib/other/postcards</td>
</tr>
<tr>
<td>latex3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>postcards</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>poster</td>
<td>Scale PostScript images for larger media or tiling. Enlarge PostScript images and print them on larger media and/or tile them to print on multiple sheets. Supports foreign (non-European A*) media sizes. An OS2 port (suitable also for DOS) is available (see the os2 sub-directory).</td>
<td>Jos van Eijndhoven</td>
<td>support/poster</td>
</tr>
<tr>
<td>poster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ppchteX</td>
<td>A package that can be used to typeset chemical formulas. The package is a separate module of the context macro package for \TeX (context is a full featured, parameter driven macro package, which fully supports advanced interactive documents). It is available as the file cont-ppc.zip.</td>
<td>Hans Hagen</td>
<td>macros/context</td>
</tr>
<tr>
<td>latex2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ppchteX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>prelim2e</td>
<td>Allows the marking of preliminary versions of a document.</td>
<td>Martin Schröder</td>
<td>macros/latex/contrib/supported/ms</td>
</tr>
<tr>
<td>latex3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>prelim2e</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>prettyref</td>
<td>Additional functionality for the \LaTeX2ε label–reference mechanism allowing the “preformat” of all types of labels. This package is compatible with hyperref and other packages.</td>
<td>Unknown</td>
<td>macros/latex/contrib/supported/prettyref</td>
</tr>
<tr>
<td>latex3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>prettyref</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>progkeys</td>
<td>The file ‘programs.sty’ is intended to allow a parameterized way of typesetting programs with \TeX/\LaTeX commands inside. The file ‘keywords.sty’ allows definition and use of sets of keywords that will be typeset with different fonts, according to the wish of the user.</td>
<td>Unknown</td>
<td>macros/latex/contrib/supported/progkeys</td>
</tr>
<tr>
<td>latex3</td>
<td></td>
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<tr>
<td>progkeys</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
program Typesetting programs and algorithms.
latex3 Author: unknown; CTAN location: macros/latex/contrib/supported/program
proofs Macros for building proof trees.
latex3 Author: Paul Taylor; CTAN location: macros/generic/proofs/taylor
proof Literate programming package.
generic3 Author: Eitan M. Gurari
protocol Typeset meeting protocols.
prv Compile, preview, and print \LaTeX{} documents. A Perl script. Also includes prvps for PostScript previewing. Derived from LatexMk version 2.0.
Author: Wybo H. Dekker; CTAN location: support/prv
ps2eps Produce Encapsulated PostScript from single page PostScript. Produce Encapsulated PostScript Files (EPS/EPSF) from usual one-paged PostScript documents. It calculates correct Bounding Boxes for those EPS files and filters some special PostScript command sequences that can produce erroneous results on printers. EPS files are needed for including ( scalable) graphics into \TeX{} documents. Other programs like "ps2epsi" don't always calculate the correct bounding box ( because the values are put on the PostScript stack which may get corrupted by bad PostScript code) or rounded it off so that clipping the EPS cut some part of the image. Therefore ps2eps uses a resolution of 144 dpi to get the correct bounding box. ps2eps needs perl, ghostscript and an ANSI-C compiler if your platform is not Linux, Solaris, Digital Unix or Windows 2000/9x/NT ( binaries included).
Author: Roland Bless; CTAN location: support/ps2eps
psboxit Enables one to put a PostScript drawing behind a \TeX{} box. The drawing is parameterised by the position and the size of the \TeX{} box.
Author: unknown; CTAN location: macros/latex209/contrib/misc
psfig No description available.
generic3 Author: unknown
psfixbb Computes the BoundingBox of a PostScript file setting the BoundingBox comment in the file accordingly, using GhostScript, pmutil and pmun crop.
Author: Carsten Dominik; CTAN location: support/psfixbb
psfont Intended as a replacement for psfonts of psnfss, psfont uses one file for redefining all default fonts instead of one file for each font. It also contains all parts of psfonts.dtx which are not covered by this general concept (i.e., the pffonts, mathptm and two fd-files for Adobe Symbol and Adobe Zapf Dingbats). This file is specific to PostScript fonts.
Author: Sebastian Kirsch; CTAN location: macros/latex/contrib/supported/altfont
psfonts PostScript fonts for use with \LaTeX{} and \LamathX{}. 
Author: unknown; CTAN location: fonts/psfonts
psfrag Allows \LamathX{} constructions (equations, picture environments, etc.) to be precisely superimposed over \LaTeX{} figures, using your own favorite drawing tool to create an EPS figure and placing simple text "tags" where each replacement is to be placed, with PSfrag automatically removing these tags from the figure and replacing them with a user specified \LaTeX{} construction, properly aligned, scaled, and/or rotated.
Author: Michael Grant; CTAN location: macros/latex/contrib/supported/psfrag
psizzl A \TeX{} format from SLAC.
formats3 Author: Arthur Ogawa; CTAN location: macros/psizzl
pslatex Use PostScript fonts by default. A small package that makes \LamathX{} default to ‘standard’ PostScript fonts. It is basically a merger of the times and mathptm styles from the psnfss suite of packages. You must have installed standard \LamathX{} and the psfss PostScript fonts to use this package. The main novel feature is that the pslatex package tries to compensate for the visual differences between the Adobe fonts by scaling Helvetica by 90\%, and ‘condensing’ Courier (i.e. scaling horizontally) by 85\%. The package is supplied with a (unix) shell file for a ‘pslatex’ command that allows standard \LamathX{} documents to be processed, without needing to edit the file.
Author: David Carlisle; CTAN location: macros/latex/contrib/supported/pslatex
psnfss-source Sources (makefiles and fontinst scripts) of the PSNFSS.
Author: Walter Schmidt; CTAN location: fonts/psfonts/psnfss-source
<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
</table>
| **psnfss** | Font support for common PostScript fonts. Font definition files, macros and font metrics for common PostScript fonts.  
Author: Walter Schmidt; CTAN location: macros/latex/required/psnfss |
| **latex1** | PostScript fonts.  
Author: unknown; CTAN location: macros/latex/contrib/supported/psnfssx |
| **latex2** | Extra styles and encodings for PS fonts, including Y&Y encoding support.  
Author: unknown; CTAN location: macros/latex/contrib/supported/psnfssx |
| **pspicture** | PostScript picture support. Replacement for core \LaTeX picture macros to use PostScript \texttt{special} commands.  
Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle |
| **psrip** | Extracts images from PostScript files. A Perl-script to extract images from PostScript files. The images are saved into the current directory if no other directory is given with the \texttt{-d} parameter. If there is no BoundingBox specified in the extracted image you have to insert it by hand.  
Author: Christian Lackas; CTAN location: support/psrip |
| **pssplit** | Print selected pages from PostScript files.  
Author: Peter Kleiweg; CTAN location: support/pssplit |
| **pstoedit** | Translate PostScript and PDF to other formats. Translate PostScript and PDF to other formats.  
Other formats include tgif, FrameMaker mif, XFig’s fig, pdf, gnuplot, MS-Windows wmf, CAD exchange format dxf, LightWave 3D lwo, ReaderMan rib, Real3D rib, Java applet, and Idraw format.  
Author: Dr. Wolfgang Glunz; CTAN location: support/pstoedit |
| **pstricks** | PostScript macros for \LaTeX. An extensive collection of PostScript macros that is compatible with most \LaTeX macro packages, including Plain \TeX, \LaTeX, \ams-\TeX, and \ams-LaTeX. Included are macros for color, graphics, pie charts, rotation, trees and overlays. It has many special features, including: a wide variety of graphics (picture drawing) macros, with a flexible interface and with color support. There are macros for coloring or shading the cells of tables.  
Author: Timothy Van Zandt; CTAN location: graphics/pstricks |
| **psutils** | PostScript utilities. Utilities for manipulating PostScript documents, including page selection and rearrangement, resizing the page, arrangement into signatures for booklet printing, and page merging for n-up printing. Utilities include psbook, pselect, pstops, psnup, psre size, epsfit.  
Author: Angus Duggan; CTAN location: support/psutils |
| **ps˙conv** | A converter from PostScript to Encapsulated PostScript. A PostScript program for converting one-page PostScript files into EPS (encapsulated PostScript) files acceptable by CorelDRAW!(R), Adobe Illustrator(TM) and Fontographer(R).  
Author: BOP; CTAN location: support/ps_conv |
| **ps˙view** | A PostScript previewer of PostScript files. A PostScript preamble providing an interactive environment for fast previewing of PostScript documents with GhostScript, enabling scaling rotation, grids, printing specified pages, on-line help etc.  
Author: BOP; CTAN location: support/ps_view |
| **punk** | Donald Knuth’s punk font. Donald Knuth’s punk font  
Author: Donald Knuth; CTAN location: fonts/punk |
| **qbibman** | Graphical frontend to BibTool.  
Author: Ralf Goertz; CTAN location: biblio/bibtex/utils/qbibman |
| **qfig** | A DOS graphics program to generate output for PiCTeX and epic.  
Author: William Ofosu-Amaah; CTAN location: support/qfig |
| **qfonts** | A collection of PostScript (Adobe Type 1) fonts in QX layout. Public domain Adobe Type 1 fonts; include Quasi-Palladio and Quasi-Times (regular, italic, bold and bold italic), based on URW’s Palladio and Times. The fonts are encoded according to QX layout which facilitates multilingual and technical typesetting using \TeX, preserving usability in Windows applications.  
Author: B. Jackowski; CTAN location: fonts/qfonts |
| **qobitree** | \tex\texttt{B}E\TeX macros for typesetting trees.  
Author: unknown; CTAN location: macros/latex/contrib/other/qobitree |
| **qsymbols** | For defining systematic mnemonic abbreviations, starting with ‘\^’ for math symbols and ‘\_’ for arrows, from the amssymb and stmaryrd packages.  
Author: unknown; CTAN location: macros/latex/contrib/supported/qsymbols |
Decorative chapter headings. A package for creating decorative chapter headings with quotations, a PostScript output device and the psnfs package are needed, the color package and a greyscale output device are recommended.

Author: Karsten Tinnefeld; CTAN location: macros/latex/contrib/supported/quotchap

Quotes A package to automatically translate the character * to ‘’ or ’’ so that opening and closing quotes are correctly produced.

Author: Francesco Bosisio; CTAN location: macros/latex/contrib/supported/bosisio

An experimental collection of extended CM fonts in PostScript Type 1 format. An experimental collection of extended CM fonts in PostScript Type 1 format. The collection contains fonts based on cmr10, cmbx10, cmti10, and cmbxti10: qcmr.pfb, qcmrri.pfb, qcmrb.pfb, qcmrbi.pfb (and .afm, .pfb, .tfm files). The original Computer Modern layout is extended to QX layout as an alternative to EC (Cork) encoding, usable also in Windows environment. Fonts can be adapted to any needed \TeX encoding; since they contain most common European characters, the fonts can serve, e.g., for preparing good PDF files.

Author: J. Nowacki; CTAN location: fonts/psfonts/polish/antp

This package decodes the german ‘R- und S-Sätze’, which are numerically coded security advice for chemical substances into plain text. This is, e.g., used to compose security sheets or lab protocols and especially useful for students of chemistry.

Author: Thiemo Nordenholz; CTAN location: macros/latex/contrib/other/r_und_s

Ragged left and ragged right options. Provides any \TeX format (including \LaTeX) with ‘raggedleft’ and ‘raggedcenter’ formatting of paragraphs while maintaining full control of hyphenation and degree of raggedness.

Author: unknown; CTAN location: macros/generic

Defines \Centering, \RaggedLeft, and \RaggedRight, and corresponding environments. A \LaTeX package which defines new commands \Centering, \RaggedLeft, and \RaggedRight and new environments Center, FlushLeft, and FlushRight, which set ragged text and are easily configurable to allow hyphenation.

Author: Martin Schroeder; CTAN location: macros/latex/contrib/supported/ms

Set an entire document raggedright.

Author: James Kilfiger; CTAN location: macros/latex/contrib/other/misc

A C program and \LaTeX package to draw syntax diagrams specified in EBNF.

Author: Klaus Georg Barthelmann; CTAN location: support/rail

Generating “random” numbers in \TeX. Generates pseudo-random integers in the range 1 to 2^{31}. Macros are to provide random integers in a given range, or random dimensions which can be used to provide random ‘real’ numbers, are also available.

Author: Donald Arseneau; CTAN location: macros/generic

Will turn a range of citations into something like [1..3]. Will turn a range of citations into something like [1..3].

Author: unknown; CTAN location: macros/latex209/contrib/misc

A \LaTeX\ 2e package providing emulation of \LaTeX\ 2.09 documents which used low-level font commands such as \textmd{tnrm}.

Author: Alan Jeffrey; CTAN location: macros/latex/required/tools

Print raw Russian text. A package for “quick and dirty” printing of raw (i.e., non-\TeX) Russian texts by persons who do not have Russian printer fonts (but have Cyrillic \TeX). It makes various symbols “normal” letters and converts the “unisex” quote character “’” into Russian-style << and >> quotes.

Author: Boris Veytsman; CTAN location: macros/latex/contrib/supported/koi8

Use RCS (revision control system) tags in \LaTeX\ documents.

Author: unknown; CTAN location: macros/latex/contrib/supported/rcs

Support for the revision control system. A package to extract RCS (Revision Control System) information and use it in a \LaTeX\ document. For users of \LaTeX\2HTML rcsinfo.pl is included.

Author: Juergen Vollmer; CTAN location: macros/latex/contrib/supported/rcsinfo

Macros for real arithmetic calculations.

Author: unknown; CTAN location: macros/generic/realcalc

A \LaTeX\ 2e class file to typeset recipes.

Author: Maurizio Moreti; CTAN location: macros/latex/contrib/other/recipe
refcheck
Check references (in figures, table, equations, etc.). Intended to check references in a document,
looking for numbered but unlabeled equations, for labels which are not used in the text, for unused
bibliography references. It can also display label names in text near corresponding numbers of equations
and/or bibliography references.
Author: Oleg Motygin; CTAN location: macros/latex/contrib/supported/refcheck

references
Bibliographic software supporting \LaTeX/\BibTeX. REFERENCES is bibliographic software support-
ing preparation of scientific manuscripts, storage of bibliographic data of articles in periodicals, books
and articles in books. Supports the \TeX/\LaTeX document preparation systems including the \BibTeX
program and commercial word processors. REFERENCES allows import of bibliographic data from
material downloaded in the MEDLINE format. Database functions allows retrieval of references by key-
words, authors' or editors' names, date of publication, strings in title of article, in book title or journal
names. Lists of references can be compiled in all (user-defined) formats required by the publishers of
scientific journals.
Author: Volker Kiefel; CTAN location: support/references

refman
Author: Axel Kielhorn; CTAN location: macros/latex/contrib/supported/refman

regcount
Display the allocation status of the \TeX registers. Adds a macro \texttt{\rgcount} which displays the
allocation status of the \TeX registers. The display is written into the .log file as it is a bit verbose. An
automatic call to \texttt{\rgcount} is done at \texttt{\begin{document}} and \texttt{\end{document}}.
Author: Jean-Pierre Drucbert; CTAN location: macros/latex/contrib/supported/regcount

relenc
\LaTeX package providing a relaxed font encoding to make available to a font designer more slots for
insertion of ligatures and accented characters.
Author: Lars Hellström; CTAN location: macros/latex/contrib/supported/relenc

relns
Set the font size relative to the current font size.
Author: Matt Swift; CTAN location: macros/latex/contrib/other/misc

remreset
Remove counters from reset list. \texttt{\@removefromreset} is a companion to the standard \texttt{\@addtoreset}
command which allows counters to be removed from the reset list of a controlling counter.
Author: David Carlisle; CTAN location: macros/latex/contrib/supported/remreset

repeat
A really general loop macro, which can be nested to arbitrary depth without any grouping or such.
Author: Victor Eijkhout; CTAN location: macros/generic/eijkhout

revnum
Provides a reverse-enumerate environment where all items are numbered in reverse order.
Author: Joern Wilhms; CTAN location: macros/latex/contrib/supported/revnum

revtex
Styles for various Physics Journals. Includes styles for American Physical Society, American
Institute of Physics, and Optical Society of America. Only works in compatibility mode under \LaTeX 2\epsilon.
Author: unknown; CTAN location: macros/latex209/contrib/revtex

rlepsf
A macro package for use with epsf.tex which allows PostScript labels in an eps file to be replaced by
\LaTeX labels.
Author: Colin Rourke; CTAN location: macros/generic/rlepsf

rmligs
Remove incorrectly used ligatures from German \LaTeX documents.
Author: Bjorn Jacke; CTAN location: support/rmligs

rmpage
A package to help change page layout parameters in \LaTeX. It lets you change page layout parameters
in small steps over a range of values using options. It can set \texttt{\textwidth} appropriately for the main
fount, and ensure that the text fits inside the printable area of a printer. An rmpage-formatted document
can be typeset identically without rmpage after a single cut and paste operation. Local configuration
can set defaults: for all documents; and by class, by printer, and by paper size. The geometry package
is better if you want to set page layout parameters to particular measurements.
Author: Rowland McDonnell; CTAN location: macros/latex/contrib/supported/rmpage

romaniantex
\LaTeX support for Romanian. A \LaTeX 2\epsilon package for type-setting Romanian in a multi-lingual \TeX
environment.
Author: Adrian Rezus; CTAN location: language/romanian/RomanianTeX

romanneg
Roman Neg.
Author: unknown; CTAN location: macros/latex/contrib/other/misc
latex3 Generate roman numerals instead of arabic digits. The romannum package changes \LaTeX generated numbers to be printed with roman numerals instead of arabic digits. It requires the stdclsdv package.

Author: Peter R. Wilson; CTAN location: macros/latex/contrib/roman

latex3 A package built on the standard \LaTeX graphics package to perform all the different sorts of rotation one might like, including complete figures and tables and captions.

Author: Sebastian Rahtz; CTAN location: macros/latex/contrib/rotating

rotfloat Rotate floats.

latext3 Author: unknown; CTAN location: macros/latex/contrib/supported/rotfloat

rplain Redefines the ‘plain’ pagestyle. The page numbers are now in the lower right corner.

latex3 Author: unknown; CTAN location: macros/latex/contrib/rotfloat

rsfs-ps Converted (PostScript) outlines of the rsfs fonts.

Author: Taco Hoekwater; CTAN location: fonts/rsfs/ps-type1/hoekwater

rsfs Contains MetaFont sources for fonts of uppercase script letters for use as symbols in scientific and mathematical typesetting, in contrast to the informal script fonts such as that used for the ‘calligraphic’ symbols in the \TeX math symbol font.

Author: Ralph Smith; CTAN location: fonts/rsfs

rtf2latex2e Convert Rich Text Format (RTF) files to \LaTeX 2. Converst Rich Text Format (RTF) files to \LaTeX 2e. It has support for figures and tables. Equations are read as figures. It can handle the latest RTF versions from Microsoft Word 97/98/2000, StarOffice, and other word-processors. It has support for tables, figures, and to some extent equations. It runs on Macintosh, Linux, Unix, Windows.

Author: Ujwal Sathyam; CTAN location: support/rtf2latex2e

ruhyphen Russian hyphenation. A collection of Russian hyphenation patterns supporting a number of Cyrillic font encodings, including T2, UCY (Omega Unicode Cyrillic), LCY, LWN (OT2), and KOI8-r.

Author: Vladimir Volovich; CTAN location: language/hyphenation/ruhyphen

s2latex A scribe to \LaTeX converter. The patchfile s2latex.patch provides a port to ANSI C and cleans up the Makefile.

Author: unknown; CTAN location: support/s2latex

saferef Provides a means of expressing ‘typed’ references (as it were) within a document.

Author: James Ashton; CTAN location: macros/latex/contrib/supported/saferef

sanskrit A font and pre-processor suitable for the production of documents written in Sanskrit.

Author: Charles Wilkner; CTAN location: language/sanskrit

sauter Extensions to the CM fonts, providing a parameterization scheme to build fonts at true design sizes.

Author: unknown; CTAN location: fonts/cm/sauter

sauterfonts A package providing font definition files (plus a replacement for the package exscale) to access many of the fonts in Sauter’s (Knappen’s, Holin’s) collection. These fonts are available in all point sizes and look nicer for such “intermediate” document sizes as 11pt. The package sbbm is an alternative to access the sbbm fonts, a nice collection of blackboard bold symbols.

Author: Klaus Georg Barthelmann; CTAN location: macros/latex/contrib/roman

savefnmark Save name of the footnote mark for reuse. Sometimes the same footnote applies to more than one location in a table. With this package the mark of a footnote can be saved into a name, and re-used subsequently without creating another footnote at the bottom.

Author: Volker Kuhlmann; CTAN location: macros/latex/contrib/supported/savefnmark

scale Scale document by sqrt(2) or magstep(2). A package to scale a document by sqrt(2) (or by \texttt{magstep(2)}). This is useful if you are preparing a document on, for example, A5 paper and want to print on A4 paper to achieve a better resolution.

Author: Soren Sandmann; CTAN location: macros/latex/contrib/supported/scale
scalefont Rescale fonts to arbitrary sizes. \texttt{\scalefont{2}} selects the current font in twice the current size. \texttt{\scalefont{.75}} reduces the current font size by three quarters.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle

schedule A package intended to automatically format weekly schedules using \LaTeX{}'s picture environment. It requires the packages calc and color. Its main feature is the accuracy with which appointments are represented: boxes drawn to represent a particular appointment are accurate to the minute – i.e., a 31 minute appointment will have a box 1/60th longer than a 30 minute appointment. A number of features are included to allow the user to customize the output.

Author: Jason Alexander; CTAN location: macros/latex/contrib/supported/schedule

script Variant report / book styles.

Author: unknown; CTAN location: macros/latex/contrib/other/script

scrnger Support for ngerman in scrlttr and scrdttr in koma-script.

Author: Heiko Oberdiek; CTAN location: macros/latex/contrib/supported/koma-script/contrib

secdot Section numbers with trailing dots. Makes the numbers of \texttt{section} commands come out with a trailing dot. Includes a command whereby the same can be made to happen with other sectioning commands.

Author: Robin Fairbairns; CTAN location: macros/latex/contrib/other/misc

sectsty Control sectional headers. A \LaTeX{}\_2 package to help change the style of any or all of \LaTeX{}'s sectional headers in the article, book, or report classes. Examples include the addition of rules above or below a section title.

Author: Rowland McDonnell; CTAN location: macros/latex/contrib/supported/sectsty

selectp

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

semantic Eases the typesetting of notation of semantics and compilers. Includes T-diagrams, various derivation symbols and inference trees.

Author: Peter Möller Neergaard; CTAN location: macros/latex/contrib/supported/semantic

semaphor Semaphore alphabet font in METAFONT.

Author: Vit Zyk; CTAN location: fonts/semaphor

seminar Overhead slides. Produce overhead slides (transparencies) with bells and whistles.

Author: Timothy Van Zandt; CTAN location: macros/latex/contrib/other/seminar

setspace Set space between lines: e.g., double and one and a half spacing. Support for double, one-and-a-half, and other line spacings based on pt size.

Author: Geoffrey Tobin; CTAN location: macros/latex/contrib/supported/setspace

sf298 Standard form 298. A \LaTeX{}\_2 package for generating a completed standard form 298 (Rev. 8-98) as prescribed by ANSI Std. Z39.18 for report documentation as part of a document delivered, for instance, on a U.S. government contract.

Author: Steven Douglas Cochran; CTAN location: macros/latex/contrib/supported/sf298

sfheaders Print part/chapter/section headers with the sans-serif font of the current family in the the standard book/report/article document classes.

Author: Maurizio Loreti; CTAN location: macros/latex/contrib/supported/sfheaders

sgmlecmpt Support for \LaTeX{}\_2 formulae as SGML PCDATA. Replacement control sequences for the characters >, <, and \. The replacements make it possible to enter \LaTeX{}\_2 formulae as SGML PCDATA.

Author: Joerg Knappen; CTAN location: macros/latex/contrib/supported/jknappen

shadbox A tool to shade the background of any box – text, figure, table etc. – using Plain (I)\TeX{}.

Author: Dmitry A. Glazkov; CTAN location: macros/latex/contrib/other/shadbox
shadethm

Package that allows declarations of the form \texttt{\newshadetheorem(thm){Theorem} or \newshadetheorem{}{\begin{theorem}} ... \end{theorem}}. The color package is required.

Author: unknown; CTAN location: macros/latex/contrib/support/shadethm

shading

A \LaTeX{} Style file for putting text on a shaded background. Requires a PostScript printer and dvi-file converter.

Author: unknown; CTAN location: macros/latex209/contrib/shading

shadow

Shadows.

Author: Mauro Orlandini; CTAN location: macros/latex209/contrib/misc

shapepar

A macro to typeset paragraphs in specific shapes.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

shhyphl

Serbo-Croat hyphenation written in the latin alphabet.

Author: Dejan Muhamedagic; CTAN location: language/hyphenation

shortlst

Provides four environments for typesetting lists of short items which may be laid out horizontally as well.

Author: Mogens Lemvig Hansen; CTAN location: macros/latex/contrib/support/shortlst

shorttoc

Table of contents with different depths. A package to create another table of contents with a different depth, useful in large documents where a detailed table of contents should be accompanied by a shorter one, giving only a general overview of the main topics in the document.

Author: Jean-Pierre Drucbert; CTAN location: macros/latex/contrib/support/shorttoc

showdim

A package for \LaTeX{} providing a number of commands for printing the value of a \LaTeX{} dimension. For example, \texttt{\texttt{\textbackslash nthpt\textbackslash baselineskip}} yields the current value of \texttt{\textbackslash baselineskip} rounded to the nearest tenth of a point.

Author: Michael J Downes; CTAN location: macros/latex/contrib/support/showdim

showkeys

Show label, ref, cite and bib keys.

Author: David Carlisle; CTAN location: macros/latex/required/tools

showlabels

Show label commands in the margin.

Author: Norman Gray; CTAN location: macros/latex/contrib/support/showlabels

siam

Styles for SIAM publications.

Author: unknown; CTAN location: macros/latex/contrib/other/siam

sidecap

Typeset captions sideways. Defines environments called SCfigure and SCtable (analogous to figure and table) to typeset captions sideways. Options include outercaption, innercaption, leftcaption and rightcaption.

Author: Rolf Niepraschk and Hubert Gäßlein; CTAN location: macros/latex/contrib/support/sidecap

siggraph

Document class for formatting papers according to the specifications for submission to the annual ACM Siggraph conference.

Author: unknown; CTAN location: macros/latex/contrib/support/siggraph

simplified-latex

A Simplified Introduction to \LaTeX{}.

Author: Harvey Greenberg; CTAN location: info/simplified-latex

simpsons

MetaFont source for Simpsons characters.

Author: unknown; CTAN location: usergrps/uktug/baskervi/4_4

sirhala

Support for the sinhala language.

Author: Vasantha Saparamadu; CTAN location: language/sirhala

sirin

A set of files for typing the Tibetan language in \TeX{} or \LaTeX{}.

Author: Sam Sirin; CTAN location: language/tibetan/sirlin

siunits

International System of Units. Typeset physical units following the rules of the International System of Units (SI).

Author: Marcel Heldoorn; CTAN location: macros/latex/contrib/support/siunits

skak

Typeset chess games. This package can be used to typeset chess games using PGN and show diagrams of the current board in the document. The package builds on work by Piet Tutelaers - the main novelty is the use of PGN for input instead of the more cumbersome coordinate notation (g1f3 becomes the more readable Nf3 in PGN).

Author: Torben Hoffmann; CTAN location: fonts/skak
slashed

Put a slash through characters. Useful for the Physicist’s ‘Feynman slashed character’ notation.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlsile

slidenotes

A class package for the easy production of a slide collection with annotations. Builds on the report style

latex3 (or variants).

Author: unknown; CTAN location: macros/latex/contrib/supported/slidenotes

slides

This is a standard \LaTeX{} 2\epsilon class for the production of overhead transparencies (foils), replacing the older Sl\TeX{} format. Can be used in conjunction with \texttt{lscape} and \texttt{fancyhdr}, for example.

Author: \LaTeX{} Project Team; CTAN location: macros/latex/base

slovak

Typeset Slovakian documents.

Author: unknown; CTAN location: macros/latex/required/babel

smallcap

Support for all 4 shapes of small caps in DC1.3 where SC becomes a family, rather than a shape

latex3 \texttt{\scshape} (\texttt{\textscshape} is replaced by \texttt{\textscfamily}). Thus you can write \texttt{\bf\textscfamily\textscshape} to get small caps bold slanted.

Author: taupin@lps.u-psud.fr; CTAN location: macros/latex/contrib/other/smallcap

smartmn

This package activates the minus sign such that it guesses whether to print as a hyphen or as minus sign in text mode (which is one of the most common typographical errors in \LaTeX{} texts).

Author: Joerg Knappen, Mainz; CTAN location: macros/latex/contrib/supported/jknappen

smartref

Extend \LaTeX{}'s \texttt{\ref} capability. Extend the capability of the \texttt{\ref} command: whenever a label is set this package records, along with the label, the values of some other counters (which, can be selected by the user). Then, the value of these counters can be recalled with a command similar to \texttt{\pageref{}}. Moreover, this package adds a command \texttt{\textscshape\texttt{\textscshape\textscfamily\bf\texttt{\textscshape\textscfamily\textscshape}}} for each counter added that displays something only if the value of the \texttt{\textscshape\texttt{\textscshape\textscfamily\bf\texttt{\textscshape\textscfamily\textscshape}}} counter is changed from when the label is set.

Author: Giuseppe Bilotta; CTAN location: macros/latex/contrib/other/smartref

smflatex

Classes conforming to Societé Mathématique de France. The Societé Mathématique de France \LaTeX{} stylesthat are used in its publications. They are based on AMS classes (whose code is sometimes recopied) and are mainly “upward-compatible”. Their main features are: quite different design; new environments for typesetting some information in two languages (altablacement, alttilet, alttkeywords); if necessary, use of babel (option frenchb) and deactivation of some features of frenchb. Includes smflat.cls, smbook.cls, smfplain.bst, smflalpha.bst, amongst others.

Author: Antoine Chambert-Loir; CTAN location: macros/latex/contrib/other/smflatex

snapshot

List the external dependencies of a \LaTeX{} document. The snapshot package helps the owner of a \LaTeX{} document obtain a list of the external dependencies of the document, in a form that can be embedded at the top of the document. It provides a snapshot of the current processing context of the document, insofar as it can be determined from inside \LaTeX{}. If a document contains such a dependency list, then it becomes possible to arrange that the document be processed always with the same versions of everything, in order to ensure the same output. This could be useful for someone wanting to keep a \LaTeX{} document on hand and consistently reproduce an identical DVI file from it, on the fly; or for someone wanting to shield a document during the final stages of its production cycle from unexpected side effects of routine upgrades to the \TeX{} system.

Author: Michael J. Downes; CTAN location: macros/latex/contrib/supported/snapshot

snviewer

Scientific Notebook Viewer.

Author: unknown; CTAN location: systems/win32/snviewer

sober

Reduces the amount of white space on the page. Reduces the size of various skips.

Author: unknown; CTAN location: macros/latex209/contrib/misc

sobolev

Provides commands which are useful when dealing with Hilbert and Sobolev spaces (which occurs very often, for example, in numerical analysis). It also provides the \texttt{\textscshape\texttt{\textscshape\textscfamily\bf\texttt{\textscshape\textscfamily\textscshape}}} and \texttt{\textscshape\texttt{\textscshape\textscfamily\bf\texttt{\textscshape\textscfamily\textscshape}}} commands which are also involved in the same context.

Author: Francesco Bosisio; CTAN location: macros/latex/contrib/supported/bosisio
somedefsn A programmer’s toolkit package for use by package writers supporting the provision of options which switch definitions contained in a package on and off through package options. It thus does not require all of the package to be loaded into memory.

Author: Alan Jeffrey; CTAN location: macros/latex/required/tools

songbook A package for typesetting song lyrics.

latex3 Author: Christopher Rath; CTAN location: macros/latex/contrib/supported/songbook

sorhyph Upper sorbian hyphenations patterns.

Author: Eduard Werner; CTAN location: language/hyphenation

soul Hyphenation for letterspacing, underlining, and more. Provides hyphenatable spacing out (letterspacing), underlining, striking out, etc., using the \TeX hyphenation algorithm to find the proper hyphens automatically. The package also provides a mechanism that can be used to implement similar tasks, that have to treat text syllable by syllable. This is shown in two examples.

Author: Melchior Franz; CTAN location: macros/latex/contrib/supported/soul

spanish Various \TeX related files for typesetting documents written in Spanish, including hyphenation and dictionaries.

Author: Julio Sanchez; CTAN location: language/spanish

spanishb Support for the Spanish language in Babel. This Spanish style for babel provides the functionality intended for the Spanish language when babel 3.7 comes to light. Very likely, its implementation will change in babel 3.7 because there are parts of code for it to work with 3.6; thus, it should be considered neither part of babel 3.7 nor babel 3.6.

Author: Javier Bezos; CTAN location: macros/latex/required/babel/contrib/spanish

sphack Change bshack/esphack so that it is invisible in vertical mode.

Author: Oliver Pretzel; CTAN location: macros/latex/contrib/other/misc

sprite Macros to set bitmaps with \TeX.

graphics3 Author: unknown; CTAN location: graphics/bit2spr

ssqquote \LaTeX package and font definition file to access the ‘cmssq’ fonts, i.e. Computer Modern Sans Serif Quotation Style. The \LaTeX package also defines a chapterquotes environment as an example application.

Author: Ulrik Vieth; CTAN location: macros/latex/contrib/supported/ssqquote

startex A \TeX format designed to help students write short reports and essays. It provides the user with a suitable set of commands for such a task. It is also more robust than plain \TeX and \BTeX.

Author: Dag Langmyhr; CTAN location: macros/startex

stdclsdv Provide sectioning information for package writers. The stdclsdv package is designed for package writers who need to know what sectioning divisions are provided by the document’s class. It also provides a version of \texttt{\CheckCommand} that sets a flag rather than printing a warning.

Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/stdclsdv

stmaryrd-ps St Mary Road symbols in PostScript. Converted (PostScript) outlines of the stmaryrd fonts.

Author: Taco Hoekwater; CTAN location: fonts/stmaryrd/ps-type1/hoekwater

stmaryrd St Mary Road symbols for functional programming.

fonts2 Author: Alan Jeffrey and Jeremy Gibbons; CTAN location: fonts/stmaryrd

subeqn Package for subequation numbering.

latex3 Author: unknown; CTAN location: macros/latex/contrib/supported/subeqn

subeqnarray Equation array with sub numbering.

latex3 Author: unknown; CTAN location: macros/latex/contrib/supported/subeqnarray

subfigure Figures divided into subfigures. Provides support for the manipulation and reference of small or ‘sub’ figures and tables within a single figure or table environment. It is convenient to use this package when your subfigures are to be separately captioned, referenced, or whose captions are to be included in the List-of-Figures. A new \texttt{subfigure} command is introduced which can be used inside a figure environment for each subfigure. An optional first argument is used as the caption for that subfigure.

Author: unknown; CTAN location: macros/latex/contrib/supported/subfigure

subfloat Sub-numbering for figures and tables. This package enables sub-numbering of different floats (figures and tables) similar to the subequations-environment of the amsmath package. It is not the same as the subfigure package which generates sub-figures within one normal figure.

Author: Harald Harders; CTAN location: macros/latex/contrib/supported/subfloat
subscript Provides the textsubscript command. Provides a command \textsubscript, which is copied from the command \textsuperscript that's part of \LaTeX.

Author: unknown; CTAN location: macros/latex/contrib/other/fragments

substr Deal with substrings in strings. This package provides commands to deal with substrings in strings:

latex3 Determine if a string contains a substring, count appearances of a substring in a string.

Author: Harald Harders; CTAN location: macros/latex/contrib/supported/substr

supertabular A multi-page tables package. Generally longtable is a little easier to use and more flexible.

latex3 Author: Johannes L. Braams; CTAN location: macros/latex/contrib/supported/supertabular

svjour Springer-Verlag journal macros.

Author: Joerg Knappen; CTAN location: macros/latex/contrib/supported/svjour

swebib Swedish translation of standard \Bib\TeX styles.

Author: Lars Engebretsen; CTAN location: biblio/bibtex/contrib/swebib

swiftex Edit doc sty and normal \LaTeX files with GNU Emacs. doc\TeX mode is for editing buffers containing self-documenting \LaTeX code that uses the doc package, including the \ltxdoc document class. For these buffers, doc\TeX mode is significantly more useful than the alternatives provided by standard Emacs and AUCTeX. swift\TeX mode is for editing buffers containing normal \LaTeX files and provides an alternative to the \LaTeX modes in the standard Emacs distribution and the AUCTeX package.

Author: Matt Swift; CTAN location: support/emacs-modes/swiftex

syngen A tool for generating syntax diagrams from BNF. A tool for generating syntax diagrams from BNF. The diagrams use the \LaTeX picture mode and can be included in any \LaTeX document.

Author: Jens Kloecker; CTAN location: support/syngen

syntax Typeset syntax descriptions.

Author: Mark Wooding; CTAN location: macros/latex/contrib/supported/mdwtools

syntax Creation of syntax-diagrams. Create syntax-diagrams using special environments and commands to represent the diagram structure. Includes documentation in german.

Author: Bernd Worsch; CTAN location: macros/latex/contrib/other/syntax

syntaxonly Implements the \syntaxonly declaration used for running a document through \LaTeX without actually getting any output.

Author: \LaTeX Project Team; CTAN location: macros/latex/base

synttree A package to typeset syntactic trees such as those used in Chomsky’s Generative grammar, based on a description of the structure of the tree.

Author: Matijs van Zuijlen; CTAN location: macros/latex/contrib/supported/synttree

t-angles Draw tangles, trees, Hopf algebra operations and other pictures. A \LaTeX 2\epsilon style for drawing tangles, trees, Hopf algebra operations and other pictures. It is based on em\TeX or \TPIC \special’s. Therefore, it can be used with the most popular drivers, including em\TeX drivers, dviwin, xdvi and dvips.

Author: Volodymyr Lyubashenko; CTAN location: macros/latex/contrib/supported/t-angles

t1utils Simple type-1 font manipulation programs. A collection of simple type-1 font manipulation programs. Together, they allow you to convert between PFA (ASCII) and PFB (binary) formats, disassemble PFA or PFB files into human-readable form, reassemble them into PFA or PFB format. Additionally you can extract font resources from a Macintosh font file (ATM/Laserwriter), or create a Macintosh Type 1 font file from a PFA or PFB font.

Author: Eddie Kohler and Lee Hetherington; CTAN location: fonts/utilities/t1utils

t2 No description available.

lang3 Author: Vladimir Volovich; CTAN location: macros/latex/contrib/supported/lang3

tabbing Tabbing with accented letters. A package offering a variant of the tabbing environment which allows accented letters.

latex3 Author: Jean-Pierre Drucbert; CTAN location: macros/latex/contrib/supported/tabbing

table Better vertical spacing in tables and arrays (tabular lineskip).

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

tabularx Tabulars that widen automatically.

Author: David Carlisle; CTAN location: macros/latex/required/tools
tap  An easy \TeX macro package for typesetting complex tables. The package offers a simple notation for pretty complex tables (to Michael J. Ferguson’s credit); with PostScript allows shaded/coloured tables, diagonal rules, etc; supposed to work with both Plain and \LaTeX; moreover, an AWK converter from ASCII semigraphic tables to TAP notation is included.

Author: BOP; CTAN location: macros/generic/tables

taylor  Diagram macros by Paul Taylor.

graphics3  Author: Paul Taylor; CTAN location: macros/generic/diagrams/taylor

tbe  Examples from Arvind Borde’s \TeX by Example.

plain3  Author: Arvind Borde; CTAN location: macros/plain/contrib/tbe

tcvn  A package for vietnamese TCVN encoding which is widely used in MS-Windows applications.

Author: Nguyen-Dai Quy; CTAN location: language/vietnamese/tcvn

tex  No description available.

texlive1  Author: unknown

doc1  The \TeX Directory Structure documentation.

TeEncontreX  HTML-based help for \TeX and \LaTeX.

Author: Manuel Gutierrez Algaba; CTAN location: documentation/spanish/TeEncontreX

tengwar  Font for typesetting Tolkien Tengwar script, by Michael Urban.

tex-

fonts3  Author: Michael Urban; CTAN location: fonts/tengwar

tensind  Typeset tensors. Typesets tensors with dots filling gaps and fine tuning of index placement.

Author: Javier Bezos; CTAN location: macros/latex/contrib/support/bezos

tensor  A package which allows the user to set tensor-style super and subscripts with offsets between successive indices.

Author: Mike Piff; CTAN location: macros/latex/contrib/support/piff

termcal  Print a class calendar. This package is intended to print a term calendar for use in planning a class. It has a flexible mechanism for specifying which days of the week are to be included and for inserting text either regularly on the same day each week, or on selected days, or for a series of consecutive days. It also has a flexible mechanism for specifying class and nonclass days. Text may be inserted into consecutive days so that it automatically flows around nonclass days.

Author: Bill Mitchell; CTAN location: macros/latex/contrib/support/termcal

testmath  Examples of the AMS-\LaTeX package.

Author: American Mathematical Society; CTAN location: macros/latex/required/amslatex/math

tetex  The \TeX distribution for Unix/Linux. A comprehensive distribution of \TeX, \LaTeX and family, particularly designed to be very easy to install (20 minutes) and customise with a well organised and compliant TDS (\TeX Directory Structure) and fast file searching. Include web2c, pdf\TeX, c-\TeX, Omega, xdvi, dvips, dvijl, ps2pk, makeinfo, texinfo, and texconfig. PDF files with hyperlinks and thumbnails can be created either by using dvips and ps2pdf/distiller or more directly by using pdf\TeX. PostScript with resolution-independent fonts can be generated due to the included postscript type 1 fonts.

Author: Bill Mitchell; CTAN location: macros/latex/contrib/support/texmath

tex-math  A summary of \TeX-commands used to create mathematical formulae (and certain other special characters). It can be viewed on any machine that runs OS2.

Author: unknown; CTAN location: systems/os2/doc/TEx-Math

tex-ps  \TeX to PostScript generic macros and add-ons.

generic2  \TeX to PostScript generic macros and add-ons: transformations of EPS files, prepress preparation, color separation, mirror, etc.

Author: BOP and J. Nowacki; CTAN location: macros/generic/\TeX-PS

tex2bib  Converts bibitems embedded in a document to bib format. It should be added as support/tex2bib.

Author: Michael Friendly; CTAN location: biblio/bibtex/contrib/tex2bib

tex2ltex  Useful for converting plain \TeX (AMS) files into AMS-\LaTeX and convert plain AMS-\TeX bibliographic references into \LaTeX.

Author: Pedro Fortuny; CTAN location: support/tex2ltex

tex2rtf  Translates \LaTeX text into RTF (Rich Text Format used by Microsoft Word), into MS-Windows Help RTF, into HTML and into wxHelp. Implemented using the free C++ class library wxWindows.

Author: Julian Smart; CTAN location: support/tex2rtf
tex4ht  Convert (\LaTeX)\TeX to HTML/XML. \LaTeX to HTML/XML. A converter from \TeX and\LaTeX to hypertext (HTML, XML, etc.), providing a configurable (\LaTeX-based authoring system for hypertext.

Author: Eitan Gurari; CTAN location: support/Tex4ht

texdepend  Find dependencies in a \LaTeX file. A Perl script for finding dependencies in a \LaTeX file. The script reads a .tex file, and (recursively) all \input and \include files referenced therein to build dependencies from includes (both \input and \include), packages (as in \usepackage), and figures (using \includegraphics).

Author: Michael Friendly; CTAN location: support/texdepend

texdoc  Documentation files for \TeX-texmf. \TeXdoc is a \TeX-based frontend for easy access of package documentation for the \TeX typesetting system on Unix platforms; its database files texdoc-100.dat and texdoc-102.dat are based on \TeX v.1.0.0-2. Its purpose is to provide the users with a graphical interface that makes it easier to find package documentation about a certain topic. - Main requirements are some kind of Unix, Perl 5 and Perl/Tk 8.0.x.

Author: Thomas Ruedas; CTAN location: systems/unix/texmf/contrib

textdoctk  Easy access to package documentation. A \TeX-based GUI for easy access to package documentation for \TeX on Unix platforms; the databases it uses are based on the texmf/doc subdirectories of \TeX v.1.0.x, but database files for local configurations with modified/extended directories can be derived from them. Note that textdoctk is not a viewer itself, but an interface for finding documentation files and opening them with the appropriate viewer; so it relies on appropriate programs to be installed on the system. However, the choice of these programs can be configured by the sysadmin or user.

Author: Reinhard Zierke; CTAN location: systems/unix/texmf/1.0/contrib

texdraw  Graphical macros, using embedded PostScript.

texed  A \TeX shell for OS2, \TeX-Edit provides an easy interface for \LaTeX, dvips, GhostScript and ispell.

Author: Frank Stippich; CTAN location: systems/os2/texed

texemplar  A class for the journal of Cervan\TeX. Cervan\TeX is the Spanish \TeX User’s Group.

Author: Javier Bezos; CTAN location: macros/latex/contrib/other/Texemplar

texinfo  Texinfo documentation system. Produces online or printed output from a single source.

Author: Free Software Foundation; CTAN location: macros/texinfo

texip  Macros from \TeX in Practice.

Author: Stephan von Bechtolsheim; CTAN location: macros/tip

texlist  Typeset program (or ASCII text file) listings. This is a C program that generates \LaTeX(X).\LaTeX(\LaTeX(X).

Author: John Forkosh; CTAN location: support/texlist

texlive  A CD-ROM distribution of \TeX and friends.

Author: Sebastian Rahtz; CTAN location: systems/texlive

texlive1  A CD-ROM distribution of \TeX and friends, etc., with precompiled binaries for many systems, based on \TeX and Mik\TeX. The CD-ROM image is available (bzipped .iso file) for those who wish to burn their own CD.

Author: Sebastian Rahtz; CTAN location: systems/texlive

\TeXmacs  Structured text editor for \TeX. \TeXmacs is a “structured text editor” with special support for mathematical expressions. The typesetting quality of the produced documents is intended to be as high as possible, i.e. comparable to the quality of documents produced with \TeX. The user interface aims to be as natural and powerful as possible. In particular, the text you see on the screen corresponds exactly to what you get after printing. \TeXmacs comes with a typed lisp extension language. Like emacs, this allows you for instance to redefine keyboard and menu actions. \TeXmacs can also be used as an interface for computer algebra systems. In particular, automatically generated mathematical formulas are typeset in a satisfactory way. It is possible to generate \LaTeX and PostScript output from \TeXmacs. After compilation, the \LaTeX output will resemble the PostScript output, although we guarantee no complete compatibility between \TeXmacs and \TeX. It is also possible to import “well written \LaTeX documents.” The present release includes an interface with ghostscript, which enables you to include PostScript (and some other formats) of images.

Author: Joris van der Hoeven; CTAN location: systems/unix/\TeXmacs

texmalli  A quick Finnish introduction to using \LaTeX.

Author: Antti-Juhani Kajjanaho; CTAN location: info/finnish/texmalli
TeXnicCenter

Integrated development environment for \LaTeX{} on MS-Windows. \TeXnicCenter is an integrated development environment (IDE) for developing \LaTeX{} documents on windows (Windows 95, 98, 2000, NT 4.0). Features include: Project orientated integrated development environment for \LaTeX{} documents; Definition of unlimited “output types” (i.e. DVI, PostScript, PDF); Fully customizable editor; Structure View that shows the structure of the whole \LaTeX{} document, even if it is split into several files using \texttt{\textbackslash input} or \texttt{\textbackslash include}; Simple insertion of \LaTeX{} constructs by menu or toolbar; Compilation of the project in the IDE: simple jumping to errors, warnings and bad boxes; Support for document templates; Fully customizable menu and toolbars in modern look and feel; Support for english and german language.

Author: Sven Wiegand; CTAN location: \texttt{systems/win32/\TeXnicCenter}

texperf

A WordPerfect to \LaTeX{} translator.

Author: John Forkosh; CTAN location: \texttt{support/texperf}

texpict

Create drawings for \LaTeX{}. A graphical program developed with Tcl-Tk (it must be installed on the system) for the creation of drawings for inclusion in \LaTeX{} file as picture environments.

Author: Ramon Ribo; CTAN location: \texttt{graphics/texpict}
texshade

Package for setting nucleotide and peptide alignments. \TeX{}shade is an alignment shading software completely written in \TeX{}/\LaTeX{} which can process multiple sequence alignments in the .MSF and the .ALN file format. It provides in addition to common shading algorithms special shading modes featuring functional aspects, e.g. charge or hydrophathy, and a plentitude of commands for handling shading colors, text styles, labels, legends and even allows the user to define completely new shading modes. \TeX{}shade combines highest flexibility and the habitual \TeX{} output quality—with reasonable time expenditure.

Author: Eric Beitz; CTAN location: \texttt{macros/latex/contrib/supported/texshade}
texshell32

A free \TeX{}Shell for MS-Windows 95 and NT. Features include: All files kept in own directory (no extra DLLs that mess up your system directory); Syntax highlighting for \TeX{} commands; External programs freely definable; Support for dviwins line specials; Predefined templates and dialogs that assist you in editing text or create new documents; User defined templates that can even embrace an existing text; Dialog for inserting images (works with dviwin only); Images can be opened directly from the texshell; It is small.

Author: Dirk Struve; CTAN location: \texttt{systems/win32/texshell32}
texsis

A Plain \TeX{} macro package along the lines of \LaTeX{}. \TeX{}sis is a Plain \TeX{} macro package which provides useful features for typesetting research papers and related documents. For example, it includes support specifically for: Automatic numbering of equations, figures, tables and references; Simplified control of type sizes, line spacing, footnotes, running headlines and footlines, and tables of contents, figures and tables; Specialized document formats for research papers, preprints and “e-prints,” conference proceedings, theses, books, referee reports, letters, and memoranda; Simplified means of constructing an index for a book or thesis; Easy to use double column formatting; Specialized environments for lists, theorems and proofs, centered or non-justified text, and listing computer code; Specialized macros for easily constructing ruled tables. \TeX{}sis was originally developed for physicists, but others may also find it useful. It is completely compatible with Plain \TeX{}.

Author: Eric Myers; CTAN location: \texttt{macros/texsis}
texsk

Simple \LaTeX{} drawing program for OS2 PM. Uses the picture environment.

Author: Tim Bahnes; CTAN location: \texttt{graphics/texsketch}
text1

\LaTeX{} format from the University of Washington.

Author: unknown; CTAN location: \texttt{macros/text1}
textcase

Case conversion ignoring mathematics. \texttt{\\MakeTextUppercase} and \texttt{\MakeTextLowercase} are similar to the standard \texttt{\MakeUppercase} and \texttt{\MakeLowercase}, but they do not change the case of any sections of mathematics within the argument.

Author: David Carlisle; CTAN location: \texttt{macros/latex/contrib/supported/carlisle}
textcomp

Text Companion fonts. Supports the Text Companion fonts which provide many text symbols (such as baht, bullet, copyright, musicnote, onequarter, section, and yen) in the TS1 encoding.

Author: unknown; CTAN location: \texttt{fonts/pfonts/ts1}
textfit

Package to support fitting of text to a given width or height by scaling the font.

Author: unknown; CTAN location: \texttt{macros/latex/contrib/supported/textfit}
textmerg

Merge text in \TeX{} and \LaTeX{}. Useful, for example, in mail merge.

Author: Mike Piff; CTAN location: \texttt{macros/latex/contrib/supported/textmerg}
textoolspro A small set of utilities for doing documentation in \LaTeX\ intended mainly for programmers. Includes: boxerer.py for creating structured boxes, one inside another so the structure of data and functions can be easily shown; sectioner.py, a front-end filter of \LaTeX-modified code, so you can write sections in a relative way; and iarticle.cls, a \LaTeX class that allows up to 14 levels of nesting, needed for doing documentation.
Author: Manuel Gutierrez Algaba; CTAN location: support/textoolspro

latex3 Annotated membrane protein topology plots. A \LaTeX package for setting shaded and annotated membrane protein topology plots and helical wheels.
Author: Eric Beitz; CTAN location: macros/latex/contrib/support/textopo

latex3 Place boxes absolutely. A package to facilitate placement of boxes at absolute positions on the \LaTeX page, and useful for large-format conference posters, for example.
Author: Norman Gray; CTAN location: macros/latex/contrib/support/textpos

latex3 Enhancements to the theorem environments, giving more choice in theorem layout.
Author: Frank Mittelbach; CTAN location: macros/latex/required/tools

thesis Typeset thesis. A class for producing a thesis based on the report class for a more European and more flexible look. Supports options like noindent, noitemization, headline, nocenter, crosshair, and chapterbib.
Author: Wenzel Matiaske; CTAN location: macros/latex/contrib/support/thesis

threeparttable Tables with captions and notes all the same width.
Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

latex3 Thumb marks in documents. Can be used to place thumb marks in books, manuals, and reference manuals.
Author: Christian Holm; CTAN location: macros/latex/contrib/other/thumb

tiff The tiff graphics package.
Author: unknown; CTAN location: graphics/tiff

tiff2ps A PostScript program for converting TIFF files to EPS. Supports compression (LZW, RLE, Flate) and ASCII85 encoding, and possibly used for generating colour-separated EPS, EPS thumbnails, header EPS containing only a pointer to a source TIFF file.
Author: BOP; CTAN location: support/pstools/tiff2ps

time Defines a macro \now to print the current time. Defines a macro \now to print the current time.
Author: Mike Piff; CTAN location: macros/latex/contrib/supported/piff

timesht Package for typesetting time sheets.
Author: unknown; CTAN location: macros/latex/contrib/other/timesht

timing Fonts and macro package for drawing timing diagrams.
latex3 Author: unknown
tiny2l  Pretty print C/C++/Java source code using \LaTeX. A small converter for pretty printing C/C++/Java source code using \LaTeX. Features include: ease of use; use roman font for standard output for better legibility of the generated text; use direct positioning of \LaTeX boxes to preserve vertical structures in the source text; context-sensitive linebreaking—linebreaking is not done by \LaTeX, only by the supported macros, so the language structure is considered when breaking a line. For example, if a C++ comment is broken, the continuation line starts also with //. If a string or preprocessor line is broken, it gets an \ at the end of the line. If you would convert the generated dvi file back to ASCII, you get a valid source text again; some special comment styles (fill comments, block comments, embedded \LaTeX comments); insert \LaTeX text into comments; special support for multiple file projects: The generated files can be used as standalone files or as include file in a larger project without modification (if they are used as include file, the wrapper file must only include the position package in the package list; everything else is done automatically); lines may be omitted from output.

Author: Michael Plugge; CTAN location: \url{support/tiny_c2l}

tipa  Fonts and macros for IPA phonetics characters.

fonts2  Author: unknown; CTAN location: \url{fonts/tipa}

tipos  Description of fonts for \LaTeX in Spanish. The document tipos.pdf describes (in Spanish) the large amount of types of files for fonts (‘tipo’ means ‘font’ in Spanish). The document fonteinf.pdf is a translation to German of tipos.pdf kindly made by Thomas Ruedas.

Author: Javier Bezos; CTAN location: \url{info/spanish}

titlefoot  Add special material to footer of title page. Provides the capability of adding keywords (with a \texttt{\keyword} command), a running title \texttt{\RTitle}, AMS subject classifications \texttt{\amsSubj}, and an “authors footnote” as footnotes to the title or first page of a document. Works with any class for which the \texttt{\thanks} macro works (e.g., article).

Author: Brett Presnell; CTAN location: \url{macros/latex/contrib/supported/titlefoot}

titlerref  Cross-reference titles of sections and floats with caprions just like \texttt{\ref} and \texttt{\pageref}.

Author: Donald Arseneau; CTAN location: \url{macros/latex/contrib/other/misc}

titles  Titles of books, articles, etc., in \LaTeX. A \LaTeX package defining macros that typeset the titles of books, journals, etc. and handle following spacing and punctuation intelligently, based on context. Useful for bibliographic databases and any document. Also includes other markup like \texttt{\word}, \texttt{\defn}, \texttt{\phrase}, etc.

Author: Matt Swift; CTAN location: \url{macros/latex/contrib/supported/frankenstein}

titlesec  Select alternative section titles. A package providing an interface to sectioning commands for selection from various title styles. E.g., marginal titles and to change the font of all headings with a single command, also providing simple one-step page styles. Also includes a package to change the page styles when there are floats in a page. You may assign headers/footers to individual floats, too.

Author: Javier Bezos; CTAN location: \url{macro\slash latex\slash contrib\slash supported\slash titlesec}

titeloc  Alternative headings for toc/tof/tol. A companion for \texttt{\titlesec} handling toc/lof/lot entries.

Author: Javier Bezos; CTAN location: \url{macros/latex/contrib/supported/titeloc}


titling  Control over the typesetting of the \texttt{\maketitle} command. The titling package gives you control over the typesetting of the \texttt{\maketitle} command, and makes the \texttt{\title}, \texttt{\author} and \texttt{\date} information permanently available.

Author: Peter R. Wilson; CTAN location: \url{macros/latex/contrib/supported/titling}

tkbibtex  A portable editor and browser for Bib\LaTeX files. It supports browsing, editing, searching, and annotations.

Author: Peter Corke; CTAN location: \url{biblio/bibtex/utils/tkbibtex}

tmmath  Support for using the Micropress TM-Math fonts. Support for typesetting math in a style that suits the Adobe Times text fonts. Relies on non-free fonts from Micropress Inc.

Author: Walter Schmid; CTAN location: \url{macros/latex/contrib/supported/tmmath}

tmview  A DVI previewer for SVG A displays. An SVG-lib based DVI-previewer offering xdvi-like anti-aliasing, text-string searching, arbitrary-zooming, bookmarks, some hypertext features, and rendering of eps-graphics by invoking ghostscript. It supports The GNU/Linux framebuffer device and double-page viewing.

Author: Thomas Moor; CTAN location: \url{dviware/tmview}

tocbibind  Add bibliography/index/contents to Table of Contents. Automatically adds the bibliography and/or the index and/or the contents, etc., to the Table of Contents listing.

Author: Peter Wilson; CTAN location: \url{macros/latex/contrib/supported/tocbibind}
tocloft  Control table of contents, figures, etc. Provides control over the typography of the Table of Contents, List of Figures and List of Tables. The package requires the stndclsdv package.
Author: Peter Wilson; CTAN location: macros/latex/contrib/tocloft

tocvsec2  Section numbering and table of contents control. Provides control over sectional numbering (without recourse to starred sectional commands) and/or the entries in the Table of Contents on a section by section basis.
Author: Peter Wilson; CTAN location: macros/latex/contrib/tocvsec2

toil  An installer of PostScript fonts for \TeX. A flexible, AWK+MetaFont-based Type One Install utility which facilitates installation of Adobe Type 1 fonts for (plain) \TeX; an alternative for afm2tfm; starting from version 1.04, includes an option that enables neutralizing sidebars (via implicit kerning mechanism); currently, available for DOS.
Author: BOP; CTAN location: fonts/utilities/t1install/toil

topcapt  Place captions above figures and tables. Defines a command \texttt{\topcaption} which does the same as \texttt{\caption}, except that it places itself correctly when put above the figure/table that it’s a caption of.
Author: Robin Fairbairns; CTAN location: macros/latex/contrib/other/misc

topfloat  Move floats to the top of the page.
Author: Angelo Macchia; CTAN location: latex/support/contrib/supported/topfloat

totpages  Access last page number and page mark of last page.
Author: Wilhelm Mueller; CTAN location: macros/latex/contrib/supported/totpages

tracking  Automatically adjust spaces between symbols in words or phrases to fit them into a specified length.
Author: Dmitry A. Glazkov; CTAN location: macros/latex/contrib/other/tracking

trajan  Fonts from the Trajan column in Rome in 114 AD. Provides fonts based on the capitals carved on the Trajan column in Rome in 114 AD. Many typographers think these rank first among the Romans’ artistic legacy. The font is uppercase letters together with some punctuation and alphabetic; no lowercase or digits.
Author: Peter Wilson; CTAN location: fonts/trajan

trans  A simple \TeX macro package for PostScript transformations. Macros for easy transformations of generic2  PostScript objects, scaling, rotation, etc.
Author: BOP; CTAN location: macros/generic/TeX-PS

transfig  Transform xfig pictures into many other formats. Translates figures generated by xfig to a large variety of formats.
Author: Brian Smith; CTAN location: graphics/transfig

treesvr  Tree macros.
Author: Peter van Roose; CTAN location: macros/latex/contrib/supported/treesvr

treetex  Allows the automatic layout of n-ary trees with arbitrary node sizes in \LaTeX, using an external C program to do much of the hard work.
Author: unknown; CTAN location: macros/latex209/contrib/trees/tree_tex

trfsigns  Typeset transform signs. A package for typesetting various transformation signs for Laplace transforms, Fourier transforms and others.
Author: Kai Rascher; CTAN location: macros/latex/contrib/supported/trfsigns

True Type  How to use TrueType fonts with \TeX.

doc2  Author: Harald Harders; CTAN location: info/TrueType

truncate  Truncate text to a specified width.
Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

tsconfig  The tsconfig program tries to make the configuration of the \TeXShell by J. Schlegelmilch easier, especially if you have a lot of computers with different processors.
Author: Dirk Nitschke; CTAN location: support/TexShell/tsconfig

ttf-tetex  Using TrueType fonts with \TeX. This document describes how to use TrueType fonts with \TeX. It also describes how to use the automatically generated slanted and small capitals versions of the font.
Author: Harald Harders; CTAN location: info/TrueType

ttf2mf  An MS-Windows program which is intended to convert MS-Windows True Type fonts to MetaFont format.
Author: Oleg V. Motygin; CTAN location: support/ttf2mf
ttf2pk  This tool rasterizes the glyph outlines of a TrueType font into a bitmap font in PK format. It is part of the FreeType package.

Author: Werner Lemberg; CTAN location: fonts/utilities/ttf2pk

ttf2pt1  Converts True Type fonts into PS Type 1 fonts. Converts True Type fonts into PS Type 1 fonts: creates hinting information; creates AFM files (preserving kerning information); supports all font encodings; supports Asian fonts.

Author: Thomas Henlich; CTAN location: fonts/utilities/ttf2pt1

ttf2tfm  Extracts the metric and kerning information of a TrueType font and converts it into metric files usable by \TeX{} (quite similar to afm2tfm which is part of the dvips package).

Author: Werner Lemberg; CTAN location: fonts/utilities/ttf2pk

tftogf  Converts MS-Windows True Type fonts to GF format.

Author: unknown; CTAN location: support/tftogf

tth-rpm \TeX{} to HTML translator packaged for RedHat Linux.

Author: Michael Sanders; CTAN location: support/tth/rpm

tth-win \TeX{}-to-HTML converter for MS-Windows32.

Author: unknown; CTAN location: systems/win32/miktex/util

tth  A \TeX{} to HTML translator.

Author: Ian Hutchinson; CTAN location: support/tth/dist

ttt  A Tibetan Transcript Transliterator for \TeX{}.

Author: Beat Steiner; CTAN location: language/tibetan/steiner

tugboat-toc  The complete accumulation of TUGboat tables of contents.

Author: Barbara Beeton; CTAN location: digests/tugboat/t-of-c

tugboat  \LaTeX{} macros for TUGboat articles.

generic2  Author: unknown; CTAN location: macros/latex/contrib/supported/tugboat

tvstex  \TeX{} Versioning System. A Perl script to collect all files which are needed to re-typeset \TeX{} documents. It does it by parsing \TeX{} logs. TVS is able to handle filenames intelligently.

Author: David Antos; CTAN location: support/TVS

twglst  Members of the TUG Technical Working Groups. A list of the currently active Technical Working Groups of the \TeX{} Users Group.

Author: unknown; CTAN location: usergrps/tug
	woopt  Definitions with two optional arguments.

Author: Heiko Oberdiek; CTAN location: macros/latex/contrib/supported/oberdiek

twoup  Print two virtual pages on each physical page. The package offers considerable flexibility as to paper size and layout, producing a standard dvi file not involving additional dvi or PostScript filters.

Author: unknown; CTAN location: macros/generic/2up

twoup  Print two virtual pages on each physical page. MiK\TeX{} and many other \TeX{} implementations include tools for massaging PostScript into booklet and two-up printing - that is, printing two logical pages side by side on one side of one sheet of paper. However, some \TeX{} preliminaries are necessary to use those tools. The twoup package provides such preliminaries and gives advise on how to use the PostScript tools.

Author: Mogens Lennvig Hansen; CTAN location: macros/latex/contrib/supported/twoup

txt2tex  Add \LaTeX{} markup to a text document. Converts plain text into something with a little \LaTeX{} formatting.

Author: Kalvis M. Jansons; CTAN location: support/txt2tex

type1  Public domain PostScript fonts, including the URW fonts distributed with Ghostscript.

Author: unknown

type1cm  A package that removes the restriction when using scalable versions of the cm fonts (Bakoma, or versions from BSR/Y&Y, or True Type versions from Kinch, PC\TeX{}, etc.) where \LaTeX{} restricts the cm fonts to discrete sizes.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/type1cm

typearea  Set page margins.

Author: unknown; CTAN location: macros/latex209/contrib/script
	typehtml  Typeset HTML directly from \LaTeX{}. Can handle almost all of HTML2, and most of the math fragment of the draft HTML3.

Author: David Carlisle; CTAN location: macros/latex/contrib/supported/carlisle
typespec  Creates a type specimen page with useful information about the typeface.

plain3  Author: Stephen Moye; CTAN location: macros/plain/contrib/TypeSpec

uaclasses  This package provides a \LaTeX\ document class named `ua-thesis' for typesetting theses and dissertations in the official format required by the University of Arizona. Moreover, there is a fully compatible alternative document class `my-thesis' for private “nice” copies of the dissertation, and the respective title pages are available as separate packages to work with “any” document class.

latex3  California PhD dissertations and Masters theses.

Author: Marcel Oliver; CTAN location: macros/latex/contrib/supported/uaclasses

uhc-gothic  Fonts for the Korean language. Support for Korean documents written in Korean standard KSC codes for \LaTeX\ 2\varepsilon.

Author: Koanghi Un; CTAN location: fonts/korean/HLaTeX

ukhyph  Hyphenation patterns for British English. This replaces the earlier version of 1992, by adding a short list of hyphenation exceptions. The actual patterns themselves are unchanged.

Author: Dominik Wujastyk; CTAN location: language/hyphenation

ukrhyph  Ukranian hyphenation. This package allows the use of different hyphenation patterns for the Ukrainian language for various Cyrillic font encodings. Contains packages implementing traditional rules, modern rules, and combined English-Ukrainian hyphenation.

Author: Maksym Polyakov and Andrij Shvaika; CTAN location: language/hyphenation/ukrhyph

ulem  Package for underlining. Be advised that underlining is considered bad style in typesetting.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

umoline  Underlines text allowing line breaking.

Author: Hiroshi Nakashima; CTAN location: macros/latex/contrib/supported/umoline

umrand  Package for page frames.

Author: unknown; CTAN location: macros/latex/contrib/supported/niceframe

underlin  Package for underlining. Be advised that underlining is considered bad style in typesetting. See also \texttt{ulem} which is a specific package for \LaTeX.

Author: unknown; CTAN location: macros/generic

underscore  Make “” print as \texttt{textunderscore} in text. Make “” print as \texttt{\textunderscore} in text.

Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

uni  The Universal font. An implementation of the universal font by Herbert Bayer of the Bauhaus school for MetaFont. It is supported in \LaTeX\ with a package and font definition file.

Author: Christian Holm; CTAN location: fonts/uni

uniqleaf  Checks filesystem tree (or union of several trees) for unique leaf names; useful for spotting ambiguities that path-searching programs could trip over. For each non-unique leaf name found, it prints out “ls” and “md5” information for each candidate file.

Author: Martyn Johnson; CTAN location: support/uniqleaf

units  Includes two packages for typesetting fractions and physical units.

Author: Axel Reichert; CTAN location: macros/latex/contrib/supported/units

universa  An implementation of Herbert Bayer's 'universal' font, with \LaTeX\ support.

Author: Christian Holm; CTAN location: fonts/universa

unsupported  MetaFont sources from Knuth, unsupported.

fonts3  Author: unknown
url Verbatim with URL-sensitive line breaks. A form of \verb that allows linebreaks at certain characters or combinations of characters, accepts reconfiguration, and can usually be used in the argument to another command. It is intended for email addresses, hypertext links, directories/paths, etc., which normally have no spaces.
Author: Donald Arseneau; CTAN location: macros/latex/contrib/other/misc

urw Font metrics, and macro support in \TeX, for free URW fonts.
Author: unknown; CTAN location: fonts/pfonts/urw

urwstd No description available.

fonts2 Author: unknown

urwvf A collection of virtual fonts generated with fontinst 1.6, that provide the fonts which URW has made available under the GNU License: Antiqua, Grotesk, Nimbus and Nimbus Sans, (and which are available as raw fonts urw) in OT1, T1, 8r and OT4 encodings, to be used with \TeX.
Author: unknown; CTAN location: fonts/urwvf

ut-backref A version of backref which adds to bibliography entries an entry saying where this particular reference was cited.
Author: Sven Utcke; CTAN location: macros/latex/contrib/other/fragments

ut-thesis University of Toronto thesis style.
Author: Francois Pitt; CTAN location: macros/latex/contrib/supported/ut-thesis

utf2any Converting UTF-7 and UTF-8 to \TeX, HTML, and other text formats. utf2any translates a file encoded in UTF-7 or UTF-8 (Unicode) into any 7- or 8-bit text format. Currently, mapping tables are supplied for \TeX, HTML, ISO-8859-1, ISO-8859-15 and RFC-1345. These tables don’t provide a complete mapping, but they can be easily extended to personal needs.
Author: Peter Kleweg; CTAN location: support/utf2any

utorontothesis A \TeX thesis class definition for University of Toronto.
Author: Robert Bernecky; CTAN location: macros/latex/contrib/supported/utorontothesis

utthesis \TeX package for preparation of a thesis that meets the requirements of the Graduate School of the University of TXas at Austin.
Author: Dinesh Das; CTAN location: macros/latex/contrib/utthesis

uwthesis University of Washington thesis style.
Author: unknown; CTAN location: macros/latex/contrib/supported/uwthesis

varindex Luxury frontend to the \index command. Provides a convenient front-end for the \index command. For example, with it you can generate multiple index entries in almost any form by a single command. Extremely customizable. Works with all versions of \TeX and probably most other \TeX formats.
Author: Martin Vaath; CTAN location: macros/latex/contrib/supported/misc

varioref Intelligent page references.
Author: Frank Mittelbach; CTAN location: macros/latex/required/tools

vdm Typesetting VDM schemas.
Author: unknown; CTAN location: macros/latex/contrib/other/vdm

vector Macros for more convenient representation of vectors in \TeX, both symbolically and as implicit or explicit rows/columns of elements.
Author: unknown; CTAN location: macros/latex/contrib/other/vector

verbatim The \TeX verbatim environment.
Author: Rainer Schoepf; CTAN location: macros/latex/required/tools

version Conditionally include text.
Author: Stephen Bellantoni; CTAN location: macros/latex/contrib/other/misc

vertex Styles for economics working papers and journals.
Author: unknown; CTAN location: macros/plain/contrib/vertex

vfcomb A system to support the writers of virtual fonts; this is written in Turbo Pascal, and sources are included.
Author: Sasha Berdnikov; CTAN location: systems/msdos/utilities/vfcomb

vfinst A set of scripts and Perl files which aim to make the installation of families of PostScript fonts and creation of necessary virtual fonts and outline fonts ‘virtually’ automatic. Uses fontinst.
Author: Alan Hoenig; CTAN location: fonts/utilities/vfinst

vicentino Vicentino fonts.
Author: Willibald Kraml; CTAN location: fonts/vicentino
viiptart An article-like document class which is 7pt rather then 10pt.
Author: Moshe Zadka; CTAN location: macros/latex/contrib/supported/viiptart

vita This class provides necessary macros to prepare your Curriculum Vitae or Resume.
latex3 Author: unknown; CTAN location: macros/latex/contrib/other/vita

vmargin Set various dimensions. Provides a macro to set various margins as well as dimensions for header/
latex2 footer and page dimensions. Most common paper sizes, paper orientation, disabling of headers and
foots, and two sided printing are supported. The vmargin package does not rely on other packages
and was designed with speed and size in mind. Its user interface might not be very fancy, but it’s
fast, small, and gets the job done. If you are looking for something more elaborate try the geometry
package.
Author: Volker Kuhlmann; CTAN location: macros/latex/contrib/supported/vmargin

vncmr A Vietnamese extension of the cmr fonts. Contains MetaFont source files, tfm files, and various
\LaTeX\textX2e and plain \LaTeX\ files for VISCII encoding.
Author: Werner Lemberg; CTAN location: fonts/vietnamese/vncmr

vpage Set page sizes. Set page sizes for many different pages. This is now superseded by vmargin.
Author: Volker Kuhlmann; CTAN location: obsolete/macros/latex/contrib/other/misc

vrbb Verbatim macros via plain \LaTeX.
latex3 Author: unknown; CTAN location: macros/generic/vrb

dversion Add version number to DVI file. Defines a command which produces a version number in the dvi-file
latex3 when \LaTeX\ is run.
Author: Mats Dahlgren; CTAN location: macros/latex/contrib/supported/dversion

vruler A package for adding a vertical numbering to the general text so that the text can be properly referenced.
The vertical ruler can be scaled and moved freely. Supports \LaTeX\ and plain \LaTeX.
Author: Zhuhan Jiang; CTAN location: macros/latex/contrib/other/misc

VTeX/Free \LaTeX\ system and PDF support for Linux and OS2. VTeX/Free is a \LaTeX\ program that generates
latex3 PDF or PostScript output immediately from the \LaTeX\ source file. The distribution includes a complete
working \LaTeX\ system. VTeX/Free is available for Linux and OS2.
Author: MicroPress; CTAN location: systems/vtex

warpcol Defines a tabular column type for formatting numerical columns in \LaTeX. The column type enables
latex3 numerical items to be right justified relative to each other, while centred beneath the column label.
In addition, macros are provided to enable variations on this column type to be defined. Usage of the
package is superficially similar to that of dcolumn; however, the alignment scheme is different, and the
packages have different, though overlapping, applications.
Author: Wayne A. Rochester; CTAN location: macros/latex/contrib/supported/warpcol

wasy-ps Converted (PostScript) outlines of the wasy fonts.
wasy Author: Taco Hoekwater; CTAN location: fonts/wasy/ps-type1/hoekwater

wasy The wasy fonts (Waldis symbol fonts). The wasy fonts (Waldis symbol fonts).
fonts2 Author: unknown; CTAN location: fonts/wasy

wasy2-ps Converted (PostScript) outlines of the wasy fonts.
wasy2 Author: Taco Hoekwater; CTAN location: fonts/wasy2/ps-type1/hoekwater

wasy The wasy fonts (Waldis symbol fonts). The wasy fonts (Waldis symbol fonts).
wasy2 Author: unknown; CTAN location: fonts/wasy2

wasysym Extra characters from the Waldis symbol fonts. Makes some additional characters available that
latex2 come from the wasy fonts (Waldis symbol fonts). These fonts are not automatically included in NFSS2/
\LaTeX\textX2e since they take up important space and often aren’t necessary if one makes use of the packages
amsfonts or amssymb. Symbols include: join box, diamond, leadsto, squsubseteq, lhd, rhd, apple, ocircle
invneg, logof, varint, male, female, phone, clock lightning, pointer, sun, bell, permil, smiley, various
electrical symbols, shapes, music notes, circles, signs, astronomy, etc.
Author: Axel Kiellhorn; CTAN location: macros/latex/contrib/supported/wasysym

wbarcode Typeset common (and less common) barcodes with \LaTeX.
Author: Peter Willadt; CTAN location: fonts/barcodes/willadt
web Establishes a page layout for an on-screen (PDF) document. The web package (for \LaTeX) is a set of macros that establishes a page layout for a (PDF) document that is meant to be read on-screen and not meant to be printed. The package also redefines the table of contents to a web style and defines optional navigational aids. The package has options for use with dvipsone, dvips, and pdftex.

Author: D. P. Story; CTAN location: macros/latex/contrib/supported/webeq

web2c-win32 Web2c for MS-Windows32, including a complete collection of \TeX\ related executables.

Author: Fabrice Popineau; CTAN location: systems/win32/web2c

web2c The “standard” source C version of the \TeX\ system. Uses the GNU autconfig package to compile and install effortlessly. Simply ./configure; make; make install.

Author: Olaf Weber; CTAN location: systems/web2c

webfiles Include several CWEB and/or Spidery WEB documents in a single \LaTeX\.

Author: Mark Pote; CTAN location: web/webfiles

webguide Brief Guide to \EPlain\ Tools for Web publishing.

Author: Peter R. Wilson; CTAN location: info/webguide

williams Miscellaneous macros by Peter Williams.

Author: Peter Williams; CTAN location: macros/latex/contrib/other/williams

win95-guide An installation-guide for a complete \TeX\-System consisting of MiKTeX, WinEdt and GhostView.

Author: Studienrat Andreas Hirsch; CTAN location: systems/win32

windvi MS-Windows DVI driver. There are many previewers for dvi files under MS-Windows. The most popular is probably Dviwin. However it lacks some important features such as the ability to recursively search directories for font files, the ability to use .vf files or display PostScript fonts, and the ability to display PostScript images. Unfortunately, the Dviwin sources were never put into the public domain; on the other side of the fence, Xdvi under Unix has these features, is widely used and its sources are available. Xdvi(k) uses the kpathsea library to search directories, already used in the Web2c-win32 port of \TeX, so there was some interest in porting Xdvi(k) to Win32. As it turned out, this turned into far more than just a port, as X Windows is far from Win32. All the user interface and the graphical part has been rewritten.

Author: Fabrice Popineau; CTAN location: systems/win32/fptex

winedt MS-Windows shell and editor for \TeX. A full-featured text editor and Shell for MS-Windows (and MS-Windows NT or MS-Windows 3.x), allowing the editing of large, multiple, text files in the usual MS-Windows way, using a Multiple Documents Interface (MDI) and following or extending the MS-Windows' Standards in every respect, and supporting (\EPlain) Syntax Highlighting and Input/Output ASCII Code Translation Tables with a comprehensive context-sensitive Help.

Author: Aleksander Simonic; CTAN location: systems/win32/winedt

winlatex FrontEnd for \LaTeX, Win98/NT, needs Microsoft VisualBasic-DLLs.

Author: Thomas Reinhardt; CTAN location: systems/win32/winlatex

winshell A MS-Windows32 user interface for \TeX. It is not a \TeX-system—you need an additional \TeX\ package for DOS/MS-Windows (e.g., miktex and web2c-win32). For previewing documents you will need something like GhostScript or dviwin.

Author: Ingo de Boer; CTAN location: systems/win32/winshell

wmf2eps Windows meta file conversion. A program to simplify MS-Windows Metafile Graphics (WMF) containing either vector-images or bitmaps into Encapsulated PostScript format having tight bounding-boxes (WinNT and Win95) at exactly the same size as the WMF-origina ls.

Author: Wolfgang Schulter; CTAN location: support/wmf2eps

wnri MetaFont fonts for Old English, Indic languages in transcription, and American Indian languages.

Author: unknown; CTAN location: fonts/wnri

wntamil Tamil to \TeX\ converter. Fonts (MetaFont) and support for Tamil, created at the University of Washington.

Author: unknown; CTAN location: language/tamil/wntamil

word2x A word 6 to anything converter, currently supporting output formats in text and \LaTeX\.

Author: Duncan Simpson; CTAN location: tools/word2x
wordcount Estimate the number of words in a \LaTeX{} document. Provides a relatively easy way of estimating the number of words in a \LaTeX{} document that does not require dvitty or other DVI converters; it does however require something like Unix grep -c that can search a file for a particular string and report the number of matching lines. An accompanying shell script wordcount.sh contains more information in its comments.

Author: Michael J. Downes; CTAN location: macros/latex/contrib/supported/wordcount

\texttt{latex3} A list (in HTML format) of packages for converting between \LaTeX{} and \TeX{} documents and a variety of other formats including RTF, Word, and Wordperfect.

Author: Wilfried Hennings; CTAN location: help/wp-conv

\texttt{wp2latex} Convert WordPerfect documents to \LaTeX{}.

Author: Jaroslav Fojtik; CTAN location: support/wp2latex

\texttt{wrapfig} Produces figures which text can flow around. Does not work in combination with list environments, but can be used in a parbox or minipage, and in twocolumn format.

Author: unknown; CTAN location: macros/latex/contrib/other/misc

\texttt{wsuipa} Style for using International Phonetic Alphabet fonts.

Author: Anshuman Pandey; CTAN location: fonts/wsuipa

\texttt{wsuipa2tipa} Translate wsuipa font commands into tipa font commands.

Old wsuipa fonts don’t compile well on newer \TeX{} distributions, and may be unavailable on your local installation. The fonts are superseded by the newer tipa fonts. The program wsuipa2tipa works as a filter that translates an old \LaTeX{} document, replacing all wsuipa font commands with tipa font commands.

Author: Peter Kleiweg; CTAN location: support/wsuipa2tipa

\texttt{wtex95} A flexible, 32-bit MS-Window-\TeX{}-editor with Highlight-O-Matic syntax-highlighting.

Author: Michael Mucke; CTAN location: systems/win32/wtex95

\texttt{xarticle} A class that allows use of 7pt, 8pt and 9pt style options. Not fully compatible with article class though.

Author: unknown; CTAN location: macros/latex209/contrib/xarticle

\texttt{xcomment} Allows selected environments to be included/excluded.

Author: unknown; CTAN location: macros/latex/contrib/other/seminar/src

\texttt{xdvi} A dvi previewer for the X Window System.

Author: Paul Vojta; CTAN location: dviware/xdvi

\texttt{xdvik} A version of xdvi with recursive searching. A (now standard) variant of xdvi with recursive searching for font files in subdirectories.

Author: unknown; CTAN location: dviware/xdvik

\texttt{xfig} XWindows vector drawing program. A menu-driven tool that allows the user to draw and manipulate objects interactively in an X window. Generates pictures for PostScript and a variety of other formats (e.g. for inclusion in \LaTeX{} documents).

Author: Brian Smith; CTAN location: graphics/xfig

\texttt{xml-catalogue} Use \xmltex{} to format the \TeX{} Catalogue. This package uses \xmltex{} to generate a printed copy of the \TeX{} Catalogue. This is not a particularly useful idea as such, as the Catalogue is far better suited to presentation on the web. However, this package provides an example of what can be done with \xmltex{}.

Author: James Kilfiger; CTAN location: macros/xmltex/contrib/xml-catalogue

\texttt{xmlplay} Typeset Shakespeare’s plays as marked up by Bosak. This is an \xmltex{} package for typsetting the plays of Shakespeare, as marked up by Jon Bosak. See \url{http://www.oasis-open.org/cover/bosakShakespeare200.html}.

Author: James Kilfiger; CTAN location: macros/xmltex/contrib/xmlplay

\texttt{xmltex} Support for parsing XML documents. This package provides an implementation of a parser for documents matching the XML 1.0 and XML Namespace Recommendations. In addition to parsing commands are provided to attach \TeX{} typesetting instructions to the various markup elements as they are encountered. Sample files for typesetting a subset of TEI, MathML, are included. Element and Attribute names, as well as character data, may use any characters allowed in XML, using utf-8 or a suitable 8bit encoding.

Author: David Carlisle; CTAN location: macros/xmltex/base

\texttt{xr} References to other \LaTeX{} documents.

Author: David Carlisle; CTAN location: macros/latex/required/tools
xspace  Define commands that don’t eat spaces.  
Author: David Carlisle; CTAN location: macros/latex/required/tools

xtab  Break tables across pages.  An extended version of supertabular to automatically break tables across pages and includes extra functionality.  
Author: Peter Wilson; CTAN location: macros/latex/contrib/supported/xtab

latex3  An X11 TeX menu built on Tcl/Tk. Provides a simple and comfortable graphical user interface to control file and directory selection, directory creation, vi, emacs, TeX, \LaTeX, previewing, etc. Written in Tcl/Tk.  
Author: Guenter Lamprecht, Wolfhard Lotz and Roland Weibezahn; CTAN location: support/xtexmenu

xtcpts  Defining language-dependent text macros.  
Author: unknown

latex3  An \LaTeX menu built on Tcl/Tk. Provides a simple and comfortable graphical user interface to control file and directory selection, directory creation, vi, emacs, \TeX, \LaTeX, previewing, etc. Written in Tcl/Tk.  
Author: Guenter Lamprecht, Wolfhard Lotz and Roland Weibezahn; CTAN location: support/xtexmenu

xtrcode  Extract contents of \LaTeX environments.  
Author: Thomas Ruedas; CTAN location: support/xtrcode

xymtex  Typesetting chemical structures.  
Author: unknown; CTAN location: macros/latex/contrib/other/xymtex

xypic  A package for typesetting a variety of graphs and diagrams with \TeX. Xy-pic works with most formats (including \LaTeX, AMS-\LaTeX, AMS-\TeX, and plain \TeX), in particular Xy-pic is provided as a \LaTeX2e ‘supported package’.  
Author: Kristoffer H. Rose; CTAN location: macros/generic/diagrams/xypic

yafoot  Miscellaneous footnote commands. Contains three style files; pfnote.sty to enclose footnote numbers within a page; fnpos.sty to control the position of footnotes; dblfnote to make footnotes double-columned.  
Author: Hiroshi Nakashima; CTAN location: macros/latex/contrib/supported/yafoot

yannisgr  Greek fonts by Yannis Haralambous.  
Author: unknown; CTAN location: fonts/greek/yannis

yfonts  Support for old German fonts. A \LaTeX interface to the old-german fonts designed by Yannis Haralambous: Gotisch, Schwabacher, Fraktur and the baroque initials.  
Author: Walter Schmidt; CTAN location: macros/latex/contrib/supported/yfonts

yhmath  Extended maths fonts for \LaTeX.  
Author: Yannis Haralambous; CTAN location: macros/latex/contrib/supported/yhmath

yi4latex  Typeset Yi (also known as Lolo) is spoken in Southern China; the script is syllabic, based on an older, ideographic system.  
Author: Oliver Corff; CTAN location: language/yi4latex

yinit  A special font (yinit) is defined to be used for initial dropped capitals.  
Author: unknown; CTAN location: fonts/gothic/yinit

youngtab  Typeset Young-Tableaux. A package for typesetting Young-Tableaux, mathematical symbols for the representations of groups, providing two macros, \yng(1) and \young(1) to generate the whole Young-Tableaux.  
Author: Volker Boerchers; CTAN location: macros/latex/contrib/supported/youngtab

yplan  Daily planner type calendar. Prints two six-monthly vertical-type daily planner (i.e., months along the top, days downwards), with each 6-month period fitting onto a single A4 (or US letter) sheet. Updated annually. Support for English, French, German, Spanish and Portuguese.  
Author: Dick Nickalls; CTAN location: macros/latex/contrib/other/yplan

ytex  Macro package developed at MIT.  
Author: unknown; CTAN location: macros/ytex

yfonts  Virtual T1 encoded Computer Modern fonts based on (OT1) Computer Modern, Times, and Helvetica fonts, intended to simulate ‘dc’ fonts. (Wayne Sullivan’s ‘dm’ fonts are another approach to the substitution of ‘dc’ fonts by virtual ones.)  
Author: Robert Fuster; CTAN location: fonts/yfonts
Macros

The bag of tricks

Victor Eijkhout

The plain TeX \loop macro has been a headache for as long as it has existed. Already in TUGboat #2 of 1987, Alois Kabelschacht gave an improved implementation of this macro, and there are regular questions about it on the TeX newsgroup. The main problem is that the original implementation, which is used as

\loop ... \if ... \repeat

suggests that

\loop ... \if ... \else \repeat

should also be possible, which it is not.

The problem lies in the implementation

\def\loop#1\repeat
  {\def\body{#1}\iterate}
\def\iterate{\body \let
\next\iterate \fi \next}

which already contains an \else, so there can not be another one at the end of the body.

A simple solution is

\def\iterate
  {\let\next\relax \body
   \let\next\iterate \fi \next}

However, this presumes that in the body the control sequence \next does not get redefined; it would be better to use a unique name such as \nextloop.

The suggestion in that old TUGboat issue is

\def\loop#1\repeat{%\def\iterate{%
  \#1\expandafter\iterate\fi}%
  \iterate {\let\iterate\relax}
}

which can contain \else.

Another solution comes from David Kastrup, who wrote an \ifnot macro for inverting the conditional:

\def\ifnot#1{#1\else
  \expandafter\expandafter\expandafter\expandafter\if\fi
  \false\true\fi
}

which can be used as, for instance,

\loop ...
  \ifnot{\ifeof\stream} ...
  \repeat

This macro is worth studying for a moment: let us see what happens to

\ifnot\true / \ifnot\false

First of all the true case: the expansion is

\true\else\expandafter\expandafter\expandafter\true\fi
\false\true\fi

and everything from \else to the first \fi gets skipped; what’s left is

\false\true\fi

which is basically \false, that is, the negation of the original \true.

In the false case,

\false\else
  \expandafter\expandafter\expandafter\false\fi
  \false\true\fi

becomes

\expandafter\expandafter\expandafter\false\fi
\false\true\fi

The first \expandafter reaches to the \fi, which is taken to conclude the original \false conditional. We are left with

\expandafter\false\expandafter\expandafter\true\fi

Here \expandafter reaches to the \expandafter, and TeX notes that an \true conditional has started. Next,

\false\fi

expands to nothing, and the net result is that we are now in an \false conditional, the negation of the original \false.

A pretty impressive macro which can of course also be used outside the context of \loop. In closing let me remark that I recently wrote a drastic revision of the \loop macro, which you can find as repeat.tex in the usual archives.

\end

\begin{quote}
\noindent\circled{victor@eijkhout.net}
\end{quote}
2000

Apr 1– Jun 11 Exhibition, “Sumner Stone, Calligraphy and Type Design in a Digital Age”, Ditchling Museum, Ditchling, Sussex, UK. For information, visit http://www.letteringtoday.co.uk/.

Apr 30– May 2 Bacho’TeX 2000, 8th annual meeting of the Polish TeX Users’ Group (GUST), “TeX on the turn of the 20th century”, Bachotek, Brodnica Lake District, Poland. For information, visit http://www.gust.org.pl/.


Jun 1–3 Society for Scholarly Publishing, 22nd annual meeting, Baltimore, Maryland. For information, visit http://www.sspnet.org.


Jun 15 NTG 25th Meeting, Rijksuniversiteit Groningen, The Netherlands. For information, contact ntg@ntg.nl.

Jun 16–18 TypeCon 2000, Westborough, Massachusetts. For information, visit http://www.typesociety.org.


Aug 28– Sep 1 Seybold San Francisco, San Francisco, California. For information, visit http://www.seyboldseminars.com/Events.

Sep 11–12 PODDP ’00: 5th International Workshop on Principles of Digital Document Processing, Munich, Germany. For information, visit http://www.cs.uwm.edu/~poddp00.

Sep 12 TUGboat 21 (3), deadline for reports and news items.

Sep 13–15 DDEP00: 8th International Conference on Digital Documents and Electronic Publishing, Munich, Germany. For information, visit http://www11.in.tum.de/DDEP00.

Sep 21 DK-TUG, 2nd Annual General Meeting, Aarhus University. For information, visit http://sunsite.auc.dk/dktug/.

Oct 6–7 DANTE, 23rd meeting, Fern-universität Hagen, Germany. For information, visit http://www.dante.de/dante/mv/mv23/.


Oct 23 TUGboat 21 (4), deadline for technical submissions.

Status as of 31 July 2000

For additional information on TUG-sponsored events listed above, contact the TUG office (+1 503 223-9994, fax: +1 503 223-3960, e-mail: office@tug.org). For events sponsored by other organizations, please use the contact address provided.

Additional type-related events and news items are listed in the Sans Serif Web pages, at http://www.quixote.com/serif/sans.
Nov 13–Jan 6  Gutenberg exhibit, including working replica of his original printing press, Louisville Free Public Library, Louisville, Kentucky.

Nov 17–19 Conference: Eric Gill & St. Dominic’s Press, University of Notre Dame, Notre Dame, Indiana; three concurrent exhibitions of Gill’s and related work will be held in the University museums and library. For information, visit http://www.nd.edu/~jsberman/gill/.

Nov 20  TUGboat 21 (4), deadline for reports and news items.


2001

Feb/Mar  DANTE 2001 and 24th meeting, Fachhochschule Rosenheim, Germany. For information, visit http://www.dante.de/events/.


Sep 23–27  Euro\TeX{} 2001, “\TeX{} and Meta: the Good, the Bad and the Ugly Bits”, Kerkrade, Netherlands. For information, visit http://www.ntg.nl/eurotex/.
Late-Breaking News

Production Notes

Mimi Burbank

Do I hear that familiar refrain? ... “We’re late again, but...” the reasons for which this time are largely due to fatal disk crashes and corrupted backup tapes and various other interesting “lurches” in the production process. (This summer I learned that cross-platform commands from Linux to Unix are not always the same—the system path hierarchy definitely is NOT! When we lost system disks and user disks, I found that all of the directory names were there—just no files. As Barbara Beeton would say via email: <sigh>

As mentioned by Mimi Jett on page 5, we have also had difficulty getting a stockpile of articles which would be of interest to the \TeX{} community. We need help from you to make all of it work.

This issue contains the \TeX{} Live 5 CD-ROM. More information may be obtained from the article within this issue on page 16.

Output The final camera copy was prepared at CSIT on a Linux running Red Hat 7, using the \TeX{} Live 4 setup, i386-linux, which is based on the Web2c \TeX{} implementation version 7.3 by Karl Berry and Olaf Weber. PostScript output, using outline fonts, was produced using Radical Eye Software’s dvips(k) 5.85, and printed on an HP LaserJet 4000 TN printer at 1200dpi.

Coming In Future Issues The next issue will contain the CTAN CD-ROM collection (three CDs), an interview with Don Knuth, and much more information in our Treasure Chest column.

The third issue for 2000 will contain the proceedings of TUG2000, with Robin Fairbairns ably functioning as Proceedings Editor.

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- 2000 TUGboat includes Volume 21, nos. 1-4.
- 2000 CD-ROMs include \TeX Live 5 (1 disk) and Dante’s CTAN (3 disk set).
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Orders received after March 1, 2000: please add $10 to cover the additional expense of shipping back numbers of TUGboat and CD-ROMs.

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I write in TeX, LaTeX, METAFONT, MetaPost, PostScript, HTML, Perl, Awk, C, C++, Visual C++, Java, JavaScript, and do CGI scripting. I take special care with mathematics. I also copyedit, proofread, write documentation, do spiral binding, scan images, program, hack fonts, and design letterforms, ads, newsletters, journals, proceedings and books. I’m a journeyman typographer and began typesetting and designing in 1979. I coauthored *TeX for the Impatient* (Addison-Wesley, 1990) and some psychophysics research papers. I have an MFA in Painting/Sculpture/Graphic Arts and an MSc in Computer Science. Among numerous other things, I’m currently doing some digital type and human vision research, and am a webmaster at the Department of Engineering and Applied Sciences, Harvard University. For more information, see: http://www.cs.umb.edu/ kathryn.

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