

L^AT_EX2RTF

A converter from L^AT_EX to RTF

Edition 0.7.11

for program version 2.3.11

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1 Introduction

$\text{\LaTeX}2\text{RTF}$ is a translator program from \LaTeX text into “rich text format” files. These files are commonly referred to as RTF files. RTF is a published standard format by Microsoft. This standard can be ambiguous in places and Microsoft ignores parts of the standard it finds inconvenient, but RTF is widely used by many WYSIWIG text editors and is supported by Microsoft Word and most text processors.

$\text{\LaTeX}2\text{RTF}$ translates the text and as much of the formatting information from \LaTeX to RTF. Be forewarned that the typeset output is not nearly as good as what you would get from using \LaTeX directly. So, why bother translating? Consider,

1. You use \LaTeX and hate everything beginning with MS-... Nevertheless, you have to share your documents with people who don't even know that there are alternatives to MS-...
2. You know somebody who frequently sends you very fine \LaTeX documents. Unfortunately, you are “on the other side” and need to import her files, steal some part, and then desktop publish it in your fine MS-... environment.
3. You like \LaTeX and \BibTeX . You interact with the rest of the world. You know someone that wants to include your writing in a Word document.

There are drawbacks to the conversion process. In fact, don't expect any \LaTeX file to be converted as you would like, don't expect it to be converted without errors or warnings, and don't be especially surprised when it doesn't convert at all. $\text{\LaTeX}2\text{RTF}$ is known to have many bugs and many missing features. Paradoxically, this number seems to grow more and more with each day. However, we can categorically state that there are some special cases in which a \LaTeX file will be translated to RTF satisfactorily by $\text{\LaTeX}2\text{RTF}$ —This was sort of disclaimer, ok? OK!

\LaTeX is a system for typesetting text and therefore it focuses on the logical structure of a document, whilst RTF is meant to be a transport format for a family of Desktop Publishing Software, dealing mostly with the design of a text.

Although the commands and styles in \LaTeX are much more flexible and standardized than in RTF, only a small subset of commands has been implemented to date (see Section 8.1 [Unimplemented Features], page 29).

Some of the capabilities of $\text{\LaTeX}2\text{RTF}$ are restricted in scope or buggy (see Section 8.3 [Known Bugs], page 29).

RTF is a moving target, because Microsoft does not stop inventing new extensions and features; consequently you cannot view newer RTF files with older word processors. The syntax and semantics of RTF are somewhat artistic, i.e., you can generate a syntactically correct RTF file that cannot be displayed by some/most word processors. For more details on RTF the specification consult the links at <http://latex2rtf.sf.net/>

2 Installation

2.1 General

The documentation of the program is found in the `doc/` directory in the file `latex2rtf.texi` in the GNU TeXInfo format. For your convenience, you can find HTML and PDF versions of the manual there as well.

Note: In this manual, the terms "directory" and "folder" are used interchangeably.

2.2 Obtaining L^AT_EX2RTF

L^AT_EX2RTF is available for many Unix Platforms, for the Macintosh, and for MS-DOS, including all versions of MS Windows.

The latest version of L^AT_EX2RTF is available at SourceForge (<http://sourceforge.net/projects/latex2rtf/>) and — with some delay — on CTAN sites: e.g., <http://www.dante.de> or <http://www.ctan.org>.

The DOS package will also run under all MS Windows versions up to Windows 7, except 64bit systems. It requires an i386 processor or better.

It should only be used on older Microsoft systems.

For Win9x, ME, NT, or newer, you should use the win or win-NO-GUI package.

The win-NO-GUI package only runs under Win32 (Win9x, ME, NT, 2000, XP, 2003, Vista, Win7). From L^AT_EX2RTF version 2.0.0 up it also runs on 64bit systems.

The win package is the win-NO-GUI package plus graphical user interface (GUI) shell (l2rshell) and installer.

It only runs under Win NT, 2000, XP, 2003, Vista, and Win7.

From L^AT_EX2RTF version 2.0.0 up it also runs on 64bit systems.

The win64 package (only L^AT_EX2RTF version 1.9.19) is the win package but with 32bit versions of the shell utilities so that it also runs on 64bit systems. From L^AT_EX2RTF version 2.0.0 up, there is no separate win64 package, as the win32 package also runs on 64bit systems.

There are a few people working on L^AT_EX2RTF, and some more make contributions, coordinated by Wilfried Hennings (texconvfaq "at" gmx.de). See the SourceForge (<http://sourceforge.net/projects/latex2rtf/>) project pages for the latest news.

2.3 UNIX

To install,

1. Edit `Makefile` for your local configuration. In particular, pay attention to the `PREFIX` variable. If you do not have root access you might wish to set the makefile variable `PREFIX` to be your home directory.

On some machines the `cc` compiler will issue errors. Therefore the default compiler command in the `Makefile` is `CC=gcc`.

2. From version 1.9.13 up, L^AT_EX2RTF supports conversion of L^AT_EX equations to bitmaps using the shell script `latex2png`, found in `scripts/`. `latex2png` requires that L^AT_EX, Ghostscript and ImageMagick are installed. L^AT_EX2RTF will translate documents

without a working `latex2png`, but some features will be missing. You can verify that the `latex2png` script is working by typing `make` in the `scripts/` directory.

3. `make`

If this is not your first time installation, you may want to preserve your old configuration (`*.cfg`) files. Copy them to a safe place before installing.

On IBM AIX, the IBM `make` utility does not support some of the commands used in Makefile. In this case use `gmake` (from GNU) instead.

Sun has decided to support the XPG4 standard on Solaris by an alternative set of binaries. To allow bitmap conversion of equations, two things are needed. First, change the first line of `latex2png` to `#!/usr/xpg4/bin/sh`. Second, define the `XPG4_GREP` environment variable accordingly, for bash-like shells `XPG4_GREP=/usr/xpg4/bin/grep`; `export XPG4_GREP` or for tsch-like shells `setenv XPG4_GREP /usr/xpg4/bin/grep`.

4. `make install`

If your `mkdir` doesn't support the `-p` option, then create the necessary directories by hand and remove the option from the `$MKDIR` variable. If you have other problems, just copy `latex2rtf` and `latex2png` to a binary directory, and move the contents of the `cfg/` directory to the location specified by `$CFG_INSTALL`.

5. `make check`

[OPTIONAL] This tests `LATEX2RTF` on a variety of `LATEX` files. Expect a whole lot of warnings, but no outright errors. (On IBM AIX, use `gmake check`.) Note that this will check the basic functionality of the `latex2png` script, and then that of `latex2rtf`.

6. `make install-info`

[OPTIONAL] This installs `.info` files for use with the `info` program.

You no longer need to define the environment variable `RTFPATH`. This is only necessary if you move the directory containing the `.cfg` files. Just define `RTFPATH` to be the path for the new location of the `cfg` directory.

2.4 plain DOS

The UNIX and Mac packages do not contain an executable for DOS or Windows. You may compile it yourself (with `djgpp` or `MinGW`) or get the

DOS package as file `latex2rtf-x.x.x_dos.zip` (where `x.x.x` is the version number)

or the win-NO-GUI package as file `latex2rtf-x.x.x_win-NO-GUI.zip` (no installer, no graphical user interface (GUI))

from SourceForge (<http://sourceforge.net/projects/latex2rtf/>)

The DOS package contains a precompiled executable which should run under plain DOS and also in the command prompt (or “console”) of any MS Windows system including Vista and Windows 7 but not on 64bit systems.

To install the DOS or win-no-GUI package of `LATEX2RTF`, extract all files from the zip archive, preserving the folder structure (winzip: check “use folder names”), preferably to `C:\12r`, or under Windows, to your “Program Files” folder (which ever it is named in your system) because then it will find its `cfg` files by default.

If you extracted them to another folder (e.g. `C:\my_files\l2r`), either edit the file `L2RPREP.BAT` and change the folder `C:\l2r` to where you put them, or specify the path to the `cfg` folder in the command line.

Avoid blanks in folder and file names!

Make sure that the folder containing the file `L2RPREP.BAT` is in your search path, or put this file into a folder which is in your search path.

To display the current search path, enter `PATH` from the command prompt (with no arguments).

Under plain DOS, conversion of equations or figures to bitmaps is not possible because Ghostscript and ImageMagick are not available for plain DOS.

2.5 MS Windows systems

To install $\text{\LaTeX}2\text{R}\text{T}\text{F}$ on a MS Windows system (WinNT, Win2000, WinXP, Vista, Win7), download the win package, execute the `latex2rtf-x.x.x_win.exe` (where `x.x.x` is the version number) and follow the instructions.

Note: The installer and GUI shell do not support Win9x and WinMe since $\text{\LaTeX}2\text{R}\text{T}\text{F}$ v.1.9.17. If you have one of these systems, you should use the win-NO-GUI package (1.9.19 and up) of $\text{\LaTeX}2\text{R}\text{T}\text{F}$.

To start the program double-click the $\text{\LaTeX}2\text{R}\text{T}\text{F}$ icon, or drag and drop a `.tex` file onto the icon.

If your \LaTeX document refers to external graphic files, e.g. `eps`, or you want to use the option to convert equations to bitmaps, you must have LaTeX, ImageMagick and Ghostscript installed. These programs are freely available for download at <http://www.miktex.org/>, <http://www.imagemagick.org> and <http://www.ghostscript.com>

The following versions were available at the time of writing and tested with $\text{\LaTeX}2\text{R}\text{T}\text{F}$ version 2.3.11:

- MikTeX 2.9
- Ghostscript 9.19
- ImageMagick-7.0.1-8-Q16-x86-dll.exe

When installing ImageMagick, be sure to choose (check)
"Install legacy utilities (e.g. convert)"

If MikTeX, ImageMagick and Ghostscript are installed, the paths to their executables are detected automatically. If for any reason this doesn't happen, these paths can be specified manually in the "Environment" tab of the $\text{\LaTeX}2\text{R}\text{T}\text{F}$ GUI shell window.

If you need to start $\text{\LaTeX}2\text{R}\text{T}\text{F}$ not from its own shell but from commandline or another Windows application, you need to add the folder containing the `latex2png` script and the helper programs to the search path.

Some applications (e.g. Lyx) allow to temporarily add the path by specifying it in the options.

If this is not possible, you can add the `latex2rtf` folder to Windows' default path like follows:

To add a folder – e.g. `C:\Program Files\latex2rtf` – to the search path:

- Note that the folder name "Program Files" contains a blank. This would lead to some problems as some parts of the `latex2rtf` program package interpret the blank as a parameter delimiter. Therefore in the following example the folder name "Program

Files" is replaced by its DOS equivalent "PROGRA~1" which has the additional effect that this is similar for several if not all European languages.

- Win95, Win98, WinME
 - Open the file `C:\AUTOEXEC.BAT` either with Edit (DOS) or with Notepad (Windows).
 - At the end of that file, add the line `PATH=C:\PROGRA~1\latex2rtf;%PATH%`
 - Save the file to its original location. Shutdown and reboot the PC.
- WinNT, Win2000, WinXP, Vista, Win7
 - Right-click "My Computer" (German: "Arbeitsplatz"), then select "Properties";
 - NT: Click the "Environment" tab;
XP and up: Click the "Advanced" tab, then the "Environment variables" button;
 - Find the line beginning with `PATH=` and insert the string `C:\PROGRA~1\latex2rtf;` so that the complete line looks like `PATH=C:\PROGRA~1\latex2rtf;C:\WINDOWS;...`
 - Click "OK"

If you do NOT use the GUI (`l2rshell.exe`), either the folders where TeX, ImageMagick and Ghostscript are installed must also be in your search path, or you must edit the file `L2RPREP.BAT`, ensure that the pathes in this file point to the folders where TeX, ImageMagick and Ghostscript are installed on your machine, and call `l2rprep` before calling `latex2rtf`.

Or you edit `l2r.bat` and call `l2r` instead of calling `latex2rtf`.

If you DO use the GUI (`l2rshell.exe`), the TeX, ImageMagick and Ghostscript folders are automatically added to the search path by the GUI.

When equations are to be converted to bitmaps, for each equation `LATEX2RTF` first writes a temporary `l2r_nnnn.tex` file to disk which consists of only the equation to be converted. It then sends the call for `"bash latex2png l2r_nnnn.tex"` to the operating system. In previous versions of `latex2rtf`, some users got the message "Out of environment space" (can occur only under Windows 95, Windows 98 or Windows ME); this should be solved now by using `bash.exe` instead of `command.com`.

2.6 Macintosh

If you want a MacOS X version, make sure that you have installed the developer tools CD that is appropriate for your OS version, and then follow the directions above for a UNIX installation. Alternatively you can install using fink <http://www.finkproject.org/> and <http://sourceforge.net/projects/fink/>.

As of 2006-01-30 there was a GUI shell for Macintosh at <http://www.inf.ethz.ch/personal/fischerk/LaTeX2rtf/index.html> but now (Nov. 2013) this is not available anymore.

There is a PPC port of an old version 1.9k for Classic MacOS `LATEX2RTF`. To convert a `LATEX` file using this version, drag the file onto the `LATEX2RTF` icon. The translation is

best if there are `.aux` and `.bbl` files in the same folder as the `.tex` file to be converted. These should be generated using `LATEX` and `bibtex`.

2.7 Problems Compiling

The code for `LATEX2RTF` is standard ANSI C. Some possible pitfalls are

- Not correctly defining your compiler in the Makefile. The default is to use `gcc`.
- Encountering errors because the compiler options. During development all compiler warnings are turned on. However, different compilers have different interpretations of `-Wall` and may generate errors that were not found in a different development system. Please report these, but a quick fix is to remove all compiler options.

2.8 Problems with make check

All the files in the `test` directory are converted (with varying degrees of success) using `LATEX2RTF` and are tested before most CVS check-ins and with all released tarballs. There will be many warning messages, but there should be no actual error messages. If you do not have a working `latex2png` script, then some of the files will fail to be translated.

3 Using LaTeX2RTF

3.1 General Assumptions

LaTeX2RTF assumes that the `.tex` file you want to convert is a valid LaTeX document. The chances of a successful LaTeX2RTF conversion are slightly better than the proverbial snowball's if the `.tex` file doesn't `latex` properly. Use LaTeX to find and correct errors before using LaTeX2RTF.

LaTeX2RTF also needs the `.aux` file and `.bbl` file which are generated by running `latex` on the `.tex` file

To correctly convert font names you must edit the `fonts.cfg` configuration file. This file is used to specify the needed font names and how the LaTeX default font names should be converted to RTF (see Section 5.6 [Font Configuration], page 23). LaTeX variables and user defined commands are not evaluated. They will be simply ignored. To let LaTeX2RTF know the names of variables you can add them in the `ignore.cfg` file (see Section 5.5 [Ignore Command], page 22).

The environment variable `RTFPATH` may contain a search path for the support files (all files ending in `.cfg`). If no file is found during the search in the search-path or if the environment variable is not set, the compiled-in default for the configuration-file directory is used. If the files are not found at all the program aborts.

In the DOS and Windows versions the search path is separated by `;` in the Unix version by `:`. For the paths themselves apply `\` and `/`. A separator may appear at the beginning or ending of `RTFPATH`.

Make sure that the configuration files are in the correct directory (or folder). LaTeX2RTF will need at least `fonts.cfg`, `direct.cfg`, `ignore.cfg`, `english.cfg`. You may have to change one or more of them to suit your needs (see Chapter 5 [Configuration], page 21).

See Section 8.2 [Missing options], page 29, for actual implementations irregularities.

See Section 8.4 [Reporting Bugs], page 29, for information on how to reach the maintainer.

3.2 LaTeX2RTF Options

The LaTeX2RTF command converts a LaTeX file into RTF text format. The text and much of the formatting information is translated to RTF making the new file look similar to the original. The command line syntax is:

```
latex2rtf [-options] inputfile[.tex]
```

for the DOS and Windows versions:

```
latex2rt [-options] inputfile[.tex]
```

The options set in the Windows GUI (`l2rshell.exe`) are inserted as command line options when clicking RUN.

The `-options` may consist of one or more of the following

`-a auxfile`

specify an `.aux` file (for table and figure references) that differs from `inputfile.aux`. If this is omitted, the name of the inputfile with the suffix

replaced `.aux` will be taken. You must provide both files (`.tex` and the `.aux`) to be able to convert cross-references in a LaTeX file. The `.aux` is created by running the `inputfile.tex` through `latex`.

-b bblfile

Unless an `bblfile` is specified with the `-b` option, LaTeX2RTF uses a `inputfile.bbl`. The `bblfile` file is used for citations and is typically created by running `inputfile.aux` through `bibtex`.

-C codepage

used to specify the character set (code page) used in the LaTeX document. This is only important when non-ansi characters are included in the LaTeX document. Typically this is done in a LaTeX 2_ε file by using `\usepackage[codepage]{inputenc}` and in this case you need not specify the `-C` codepage option. If NO `\usepackage[codepage]{inputenc}` is in the LaTeX 2_ε file, you must inform the converter about the codepage by the `-C` codepage option. You may select any of the following code pages: `ansinew`, `applemac`, `cp437`, `cp437de`, `cp850`, `cp852`, `cp865`, `decmulti`, `cp1250`, `cp1252`, `latin1`, `latin2`, `latin3`, `latin4`, `latin5`, `latin9`, `next`. The default behavior is to use `ansinew` (code page 1252). Cyrillic support includes conversion of `koi8-r`, `koi8-u`, `cp1251`, `cp855`, `cp866`, `maccyr`, and `macukr` encodings.

-d debug_level

The `-d` option determines the amount of debugging information to send to `stderr` while translating. `debug_level=0` means only Errors, '1' Warning Messages (default) also. The `debug_level` can go as high as '7' for insane amounts of debugging fun. Warnings and error messages are output to `stderr` and by default listed in the console window. They can be redirected to a file "latex2rtf.log" by appending `2>latex2rtf.log` to the command line.

-D dots_per_inch

used to specify the number of dots per inch for equations converted to bitmaps. This value is also used when picture environments are converted to bitmaps as well as when EPS graphics are converted to png files. The default value is 300 dots per inch.

-E#

selects whether figures are included in the rtf (default) or created as external files with the filenames inserted in the rtf text.

The options `-E4`, `-E8` and `-E12` are experimental and may not work as expected.

`-E0` Do not include any figures in RTF.

`-E1` Include figures that need no conversion.

`-E2` Include figures that need conversion.

`-E3` Include all figures (default).

`-E4` Insert filenames for figures that do not need conversion.

`-E8` Insert filenames for figures that need conversion.

`-E12` Insert filenames for all figures.

With options -E8 and -E12, pdf and ps graphics as well as tikz graphics are converted to eps and the eps filenames inserted in the document text. With -E4 and -E12, bitmap files are inserted in their original format. After opening the rtf in a textprocessing or dtp program, a macro can search for the inserted filenames and insert the files in their places. Further info is in the description of the -M option.

- f# where # selects which fields to use during conversion:
 - f0 do not use fields in RTF. This is handy when primitive RTF editors are being used to view the RTF output.
 - f1 use fields for equations but not `\ref` and `\cite`.
 - f2 use fields for `\ref` and `\cite` but not equations. This will be useful for versions of OpenOffice that import cross-references properly (as of Sept 2003 in a soon-to-be released version) but do not properly handle fields in equations.
 - f3 use fields when possible. This is the default and is most useful when the RTF file is being exported to be used in Word. This retains the most information from the original \LaTeX file.
- F use LaTeX to create bitmaps for all figures. This may help when figures are not translated properly with the default settings. This typically requires a functional version of ImageMagick on your machine to work properly.
- h a short usage description
- i language used to set the idiom or language used by the \LaTeX document. Typically, this is specified in a $\LaTeX 2_\epsilon$ document by including `\usepackage[language]{babel}` where **language** is one of the languages supported by the **babel** package. All languages listed in the babel system are supported so far as translations for “Chapter,” “References,” and the like. Furthermore, some commands found in the style files for german, french, russian, and czech style are supported (see Section 5.7 [Language Configuration], page 24).
- l same as -i **latin1** (Note that the default behavior is to use **ansinew** which is a superset of **latin1**). Included for backwards compatibility.
- M# where # selects the type of equation conversion. Use
 - M1 convert displayed equations to RTF
 - M2 convert inline equations to RTF
 - M4 convert displayed equations to bitmap
 - M8 convert inline equations to bitmap
 - M16 insert Word comment field that contains the raw LaTeX equation
 - M32 insert the raw latex equation in the RTF text delimited by `$... $` for inline equations and by `\[... \]` for displayed equations.

This is useful when using version 6 of the MathType equation editor, which converts typed or pasted TeX code into a MathType equation.

Probably this could also be useful for use in OpenOffice, as OO has an equation syntax which partially resembles TeX syntax.

- M64 convert displayed equations to EPS files and insert filenames in RTF text.
- M128 convert inline equations to EPS files and insert filenames in RTF text.

These switches can be combined to get different effects. Handy examples are

- M3 convert both inline and displayed equations to RTF (default)
- M6 convert inline equations to RTF and displayed equations to bitmaps
- M12 convert both inline and displayed equations to bitmaps
- M192 convert both inline and displayed equations to EPS and insert filenames in RTF text

Conversion to bitmaps or eps requires that you have installed a working latex2png script. Producing bitmaps is slow.

When running the DOS version, conversion to bitmaps works for the first 26 equations but fails for the rest with the message

"latex2png: pipe error: Too many open files (EMFILE)".

This is probably a bug in the djgpp 2.04 compiler.

The Windows version, compiled with MinGW, successfully converts at least 500 equations to bitmaps.

When -M64, -M128 or both are specified, equations are converted to individual eps files, the filenames of which are literally inserted in the rtf file, delimited by [###...###]. After loading the rtf file in a text processing program, a macro can be run which searches for "[###]" and "###]", extracts the filename, and inserts the eps in that place. The Windows installer package contains the code of such a macro for Word2010 in the file "WordMacro_InsertEPSfromNames.txt" in subfolder "scripts". (This macro may also run on other versions of Word but it was only tested on Word2010.) In Word, the inserted eps graphics display in bad quality on the screen and on non-postscript printers but can be printed in high quality on postscript and pdf printers.

-o outputfile

Unless an **outputfile** is specified with the -o option, the resulting RTF filename is formed by removing **.tex** from the **inputfile** and appending **.rtf**.

-p

Escape parentheses in mathematical formulas. This has no effect unless EQ fields are being generated. When this option is used, then a '(' or ')' that appears in an EQ field will be preceded by a backslash. Despite documentation to the contrary (which says that all parentheses should be escaped), adding escapes usually produces a worse result than doing nothing. If Word displays some formulas with parentheses as "Error!", you might try this option as a last resort. See also the -S option.

This is an option because it will break typesetting equations with non-matching parentheses (because an unmatched unquoted parenthesis would terminate the field).

-P /path/to/cfg

used to specify the folder (i.e. directory) that contains the `.cfg` files and/or the folder that contains the `latex2png` script.

Unix, Mac: The folder that contains the `latex2png` script must be prepended by a `":"`.

DOS, Windows: The scripts folder is not used, the scripts are always taken from the search path, therefore the folder containing the scripts and the helper programs must be the first in the search path. You can either add it to the search path permanently or add it temporarily by calling `l2rprep.bat` before starting conversions.

If any of the folder names contains a blank, the folder string must be enclosed in single (Unix, Mac) or double (DOS, Windows) quotes.

Examples:

(Unix:) `latex2rtf -P ./cfg/./scripts/ foo`

(DOS/Windows:) `latex2rt -P "C:\Program Files\latex2rtf\cfg" foo`

Note that without specifying the `-P` option, `LATEX2RTF` tries to find its `cfg` files in the following locations:

1. the folder specified by the environment variable `RTFPATH`, if this variable exists;
2. The folder `%PROGRAMFILES%\latex2rtf\cfg`, if the variable `PROGRAMFILES` exists – this is the folder in which `LATEX2RTF` is installed by the Windows GUI installer with default settings;
3. the folder specified at compilation time by the variable `CFGDIR`. This is set in the Makefile. The DOS version is compiled with `CFGDIR=C:/l2r`, the Windows version with `CFGDIR=C:/PROGRA~1/latex2rtf`.

-se# selects the scale for equation conversion, where `#` is the scale factor (default 1.00).

-sf# selects the scale for figure conversion, where `#` is the scale factor (default 1.00).

-t# where `#` selects the type of table conversion. Use

-t1 convert tables to RTF (default)

-t2 convert tables to bitmaps

-v or -V prints version information on standard output and exits.

-S used to specify that semicolons should be used to separate arguments in RTF fields (instead of commas). Typically this is needed when the machine that opens the RTF file has a version of Windows that uses `'`,`'` for decimal points.

-T /path/to/tmp

used to specify the folder where to put temporary files. The path can be absolute, e.g. `/path/to/tmp` or relative to the folder where the `.tex` input file is in, e.g. `tmp` or `./tmp`.

If you call `LATEX2RTF` from the commandline (e.g. under Linux or when called

as export filter by LyX), make sure that the tmp folder exists. Only the `LATEX2RTF` Windows shell tries to create the tmp folder, the command line program doesn't.

- `-W` includes warnings directly in the RTF file
- `-Z#` add the specified number of extra `}` to the end of the RTF file. This is useful for files that are not cleanly converted by `LATEX2RTF`.

With no arguments other than switches starting with a “-”, `LATEX2RTF` acts as a filter, i.e., it reads from `stdin` and writes to `stdout`. In addition, diagnostic messages are sent to `stderr`. If these standard channels are not redirected using `<` and `>`, then the input is read from the command line, and both output and error messages are printed on the screen. To redirect warnings and error messages to a file “`latex2rtf.log`”, append `2>latex2rtf.log` to the command line.

If a non-switch argument is present, `LATEX2RTF` assumes it is the name of the input file. The file must have extension “.tex” but the extension is optional. The output file is constructed from the input file name by removing the extension “.tex” and adding “.rtf”.

3.3 Debugging

With the `-d` option you can specify how much processing information `LATEX2RTF` reports. If there is a logfile specified the output goes to this file. Nonetheless Warnings and Errors are logged to `stderr` always. They can be redirected to a file “`latex2rtf.log`” by appending `2>latex2rtf.log` to the command line.

Possible values of `-d` are

0. only errors.
1. Translation Warnings (default).
2. shows preparsing of sections
3. Reasonably high level debugging messages
4. Show all function calls
5. Show each character as it is processed
6. Show processing of characters as they are output as well

4 Features

In this chapter you find what styles is $\text{\LaTeX}2\text{RTF}$ supposed to translate correctly to RTF.

4.1 $\text{\LaTeX}2\text{e}$

$\text{\LaTeX}2\text{RTF}$ understands most of the commands introduced with $\text{\LaTeX}2_{\epsilon}$. It translates both the old 2.09 version of `\documentstyle[options]{format#}` and the newer `\documentclass[options]{format}`.

4.2 Unicode Support

As of version 1.9.17 and up, $\text{\LaTeX}2\text{RTF}$ has limited unicode support. \LaTeX files that use unicode sequences are just emitted directly into the RTF file.

Symbols and odd characters in math sequences may also be converted to a unicode sequence. Some of them need the STIXGeneral fonts (see Section 4.8 [Math and Special Symbols], page 18) to be installed on the system where the rtf file is to be displayed or printed.

Support for unicode encoded input is activated by the \LaTeX command
`\usepackage[utf8]{inputenc}`
 or
`\usepackage[utf8x]{inputenc}`.

4.3 Input Encoding

It is not necessary to specify the `-C` option if you use `\usepackage{isolatin1}` or `\documentstyle[isolatin1]{...}`. $\text{\LaTeX}2\text{RTF}$ automagically detects these packages/style options and switches to processing of ISO-Latin1 codes. The following encodings are supported: ansinew, applemac, cp437, cp437de, cp850, cp852, cp865, decmulti, cp1250, cp1252, latin1, latin2, latin3, latin4, latin5, latin9, next, koi8-r, koi8-u, cp1251, cp855, cp866, maccyr, macukr, utf8, and utf8x. The encoding used in RTF files is cp1252. If cyrillic fonts are present, then these are represented in the RTF file using cp1251 (Windows Cyrillic).

4.4 Language Support

The following languages from the Babel package are supported: afrikaans, german, nynorsk, spanish, bahasa, dutch, icelandic, polish, swedish, basque, english, portuges, turkish, brazil, esperanto, irish, romanian, usorbian, breton, estonian, italian, samin, welsh, catalan, finnish, latin, scottish, croatian, lsorbian, serbian, czech, french, magyar, slovak, danish, galician, norsk, slovene.

The only thing that these files do is to translate various words usually emitted by \LaTeX during processing. For example, this ensures that the $\text{\LaTeX}2\text{RTF}$ will provide the correct translation of the word “Chapter” in the converted document.

You can select any of the above languages using the `-l` option. This is not needed if your \LaTeX file contains `\usepackage[language]{babel}`.

Encountering the `german` package or `babel` option (by H. Partl of the Vienna University) makes $\text{\LaTeX}2\text{RTF}$ behave like that: German Quotes, German Umlauts by "a, etc. . . This

support is programmed directly into LaTeX2RTF and supporting similar features for other languages will require patching the source code.

There is similar support for **french** packages.

There is reasonable support for english, latin1, latin2, and cyrillic languages.

See Section 5.7 [Language Configuration], page 24, for details on how to write a `language.cfg` file for your language by yourself.

4.5 Cross References

Cross references include everything that you might expect and then some: bibliographic citations, equation references, table references, figure references, and section references. Section, equation, table and figure references are implemented by placing RTF bookmarks around the equation number (or table number or figure number).

Page references work but are implemented as “warm” cross-references. This means that Word does not automatically update the page references when the file is opened. To update the page references you must select the entire document (in Word) and press **F9**.

Bibliographic references currently require that a valid `.aux` file be present. This is where LaTeX2RTF obtains the reference numbers. It would be nice if LaTeX2RTF just automatically numbered the references when there was no `.aux` file, but LaTeX2RTF does not do this yet.

LaTeX2RTF relies on BibTeX to convert and format bibliographic entries. Usually the style file for a particular BibTeX format does not use any special LaTeX commands and therefore the bibliography file `file.bbl` can be processed by LaTeX2RTF without difficulty. As a consequence, LaTeX2RTF can handle most bibliography styles without problem.

There are several latex style packages that add additional latex commands to enhance bibliographic formatting. LaTeX2RTF currently supports the following bibliographic packages:

apacite, apalike, authordate, harvard, natbib (also with apanat1b). These packages have many, many options and you may encounter problems with formatting in special cases.

As of LaTeX2RTF 1.9.17 and up, the natbib command `bibpunct` is supported.

Footnotes are implemented and appear at the bottom of each page.

Indexing is reasonably-well supported. The simple mark-up of `makeindex`

```
\index{topic!subtopic@textit{subtopic}}
```

is supported. The rest of the fancy indexing stuff is not implemented. The index is created at the location of the `\printindex` command. When a file with an index is first opened in Word, you must select the entire file and update the page references and fields by pressing **F9**.

Currently, there is no support for `\labels` of `\items` in enumerate environments.

The conversion of cross-references is not perfect because of the different mechanisms in the LaTeX and Word worlds. In particular, if there are multiple `\label` in a figure, table, or section environment then only the first gets processed. It is also possible to confuse the LaTeX2RTF in `eqnarray` environments.

4.6 Page Formatting

$\text{\LaTeX}2\text{RTF}$ will handle some basic page formatting options, including `\doublespacing` (as implemented in the `setspace` package), and the margin setting options provided by the `geometry` package including commands in the `ratio`, `centering` and `margin` families. Not all `geometry` options are implemented yet, in part because there are no corresponding `rtf` commands for many of them.

4.7 Equations

There are six separate levels of equation translation based on the `-M` switch, see Section 3.2 [LaTeX2RTF Options], page 9. Each equation is converted either to an EQ field or to a bitmap or inserted as raw TeX code in the document or converted to an eps file with the eps file name inserted in the document text delimited by `[###...###]`.

This is an interim solution (for some definition of “interim”). Ideally the equations would become OLE equation objects in the RTF file, but this needs to be implemented.

Some functions in the EQ fields have two or more parameters with a separator between each two. Unfortunately, the interpretation of these separators depends on the country specific settings in the MS Windows system in which the `rtf` file is opened. e.g. in English versions of MS Windows, the default parameter separator is the comma, in German versions the default is the semicolon. If the parameter in the RTF file does not match the Windows setting, some EQ fields are not interpreted correctly. You can check and set the separator in [Windows control panel - country settings - numbers - list separator]. By default, $\text{\LaTeX}2\text{RTF}$ uses the comma as separator. If $\text{\LaTeX}2\text{RTF}$ is called with the command line parameter `-S`, the semicolon is inserted as parameter delimiter.

Theoretically, according to the Word help file, parentheses ‘(’ or ‘)’ in mathematical formulas should be escaped (by a preceding backslash). Despite this, adding escapes usually produces a worse result than doing nothing. If Word displays some formulas with parentheses as “Error!”, you might try the `-p` option as a last resort.

It is also possible to convert an EQ field generated by $\text{\LaTeX}2\text{RTF}$ to an Equation Editor object by opening the `rtf` file in Word and double-clicking on the equation. However there are bugs in the interface between Word and Equation Editor which prevent symbols in font Symbol or MTExtra to be converted correctly. The full commercial version of the Equation Editor, called MathType, handles this conversion correctly.

If you have MathType version 6 or later, an even better way to convert \LaTeX equations to MathType is letting $\text{\LaTeX}2\text{RTF}$ write the \LaTeX code of the equations verbatim in the `rtf` file (option `-M32`), then open the `rtf` file in Word, select the \LaTeX code of an equation, cut it to the clipboard, open MathType, and paste the code. MathType will convert the code into an equation. Wilfried tried to automate this in a Word macro, but this fails because the macro does not wait until MathType is started and ready to receive the pasted code. Maybe the MathType authors will give us a hint or provide such a macro.

MathType can be downloaded from <http://www.dessci.com/> (30 day test version).

4.8 Math and Special Symbols

The way that symbols are converted in the RTF is based on the following observations. If the symbol is found in the latin 1 character set, then the current font is used, else the unicode code is inserted in the rtf code. (Implemented since version 2.1.0)

This means that on the system where the `.rtf` file is opened, a unicode font should be available or these glyphs will not be displayed correctly. As only the STIX fonts contain all needed characters, these fonts should be installed on the system where the rtf file is to be displayed or printed.

Many mathematical and special symbols are directly supported by `LaTeX2RTF`. Less common symbols (not found in the standard font) are supported by the conversion table in the file `direct.cfg`, see Section 5.4 [Direct Conversion], page 22.

Required fonts are:

- “Times” / “Times New Roman” or “Helvetica” / “Arial”, preferably with Unicode extension (i.e. supporting all European languages including Cyrillic, Greek, and Hebrew). “Times” or “Times New Roman” and “Helvetica” or “Arial” are standard on all systems, but not their Unicode extension.
- “STIXGeneral” (4 fonts in plain, italic, bold, bold-italic). These fonts are available from <http://sourceforge.net/projects/stixfonts/>.

Note that while Office 2003 on Vista works correctly with the Open Type version, it does not on Windows XP (Word 2003 assigns no character spacing, and Publisher doesn’t display the character at all). On Windows XP, Office 2003 only displays the symbols correctly with the TrueType (ttf) version of the fonts. But stixfonts.org only supplies the Open Type (otf) version. TrueType versions of the fonts can be downloaded from <http://sites.google.com/site/oleguret/stixfonts-ttf>.

4.9 Tables

Conversion of tabular and tabbing environments is somewhat lame. The main difficulty is that `LaTeX` (and `html`) will size the columns of a table automatically. There is no such feature in RTF. Consequently, the conversion defaults to making all the columns have equal size. This is suboptimal and should be revised.

Another way is to use the option `-t2` to make latex render them as bitmaps and insert the bitmaps into the RTF file. This feature was added in version 1.9.19.

4.10 Graphics

There is now rudimentary support for `\includegraphics`. Three file types will be inserted into the RTF file without needing conversion: `.pict`, `.jpeg`, and `.png` files. EPS and PDF files are converted to PNG using `convert` from the ImageMagick package. Some options are even handled properly.

4.11 Pagestyles

If there is no `\pagestyle` command, the RTF output is generated as with plain pagestyle, i.e. each page has its page number centered at the bottom.

You must turn this off with the `\pagestyle{empty}` command in the \LaTeX file if you don't want pagenumbers. The headings and myheadings styles are silently ignored by now. The twosided option to the `\documentstyle` or `\documentclass` produces the corresponding RTF tokens. Note that these features require RTF Version 1.4.

4.12 Hyperlatex

Hyperlatex support is largely broken at the moment, but continues to improve.

Otfried Schwarzkopf has created the “Hyperlatex Markup Language” which is a “little package that allows you to use \LaTeX to prepare documents in HTML.” It brings an Emacs lisp program with it to convert the Hyperlatex file to HTML. Hyperlatex can be obtained from the CTAN-sites, see Section 2.2 [Obtaining \LaTeX2RTF], page 3. There are two convenient commands that avoid typing: `\link` and `\xlink` that generate an “internal” label which then is used in the following `\Ref` and `\Pageref` commands.

\LaTeX makes it possible to write `'\link{anchor}[ltx]{label}'`, which typesets: ‘anchor ltx’. \LaTeX2RTF does NOT support this approach since the optional parameter is thrown away right now, see Chapter 8 [\LaTeX2RTF under Development], page 29.

Note that you have to update your `.cfg` files if you are upgrading, since there are a lot of HTML oriented commands in Hyperlatex that we simply can ‘ignore’.

4.13 APA Support

Some APA citation styles are supported, see Section 8.6.5 [Citation Commands], page 51,

Support for APA text formatting is only rudimentary at the moment (headings without numbering). If you want to format a document according to APA, rename `cfg/style.cfg` to `style_sav.cfg` and rename `cfg/styleAPA.cfg` to `style.cfg` before starting \LaTeX2RTF .

5 Configuration

5.1 Input processing

On processing input `LATEX2RTF` first converts the `LATEX` special characters. If it encounters one of the standard commands it is converted internally. If a command is not known to `LATEX2RTF` it is first looked up in `direct.cfg` and the RTF code specified there is output. If not found there it is looked up in the section `ignore.cfg`. This file includes a lot of `LATEX` commands that do not affect the output (cross reference information and the like), or that we are not able or willing to convert to RTF.

You can use `ignore.cfg` if you get tired of seeing

```
WARNING: command: 'foo' not found - ignored
```

and you don't need 'foo' in your RTF document. It would be nice to send your additions to the `LATEX2RTF` mailing list for inclusion in later distributions.

`LATEX2RTF` accepts Unix, MS-DOS, and Macintosh line ending codes (`\n`, `\r\n` and `\r`). The files it creates get the line ending for the platform on which `LATEX2RTF` was compiled.

The `LATEX` file may have been created with a wide variety of character sets. If the `LATEX` lacks the `\package[codepage]{inputenc}` definition, then you may need to use the command line switch to manually select the proper code page (see Section 4.3 [Input Encoding], page 15).

5.2 Conditional Parsing

Starting with `LATEX2RTF` 1.9.18, there is a handy method for controlling which content should be processed by `LATEX` or by `LATEX2RTF`. Control is achieved using the standard `\if` facility of `TEX`. If you include the following line in the preamble of your document (i.e., before `\begin{document}`)

```
\newif\iflatextortf
```

Then you will create a new `\iflatextortf` command in `LATEX`. `TEX` sets the value of this to `false` by default. Now, `LATEX2RTF` internally sets `\iflatextortf` to be true, and to ensure that this is always the case, `LATEX2RTF` ignores the command `\latextortffalse`. This means that you can control how different applications process your document by

```
\iflatextortf
This code is processed only by latex2rtf
\else
This code is processed only by latex
\fi
```

Note that `\iflatextortf` will only work within a section; you cannot use this command to conditionally parse code that crosses section boundaries. Also, it will only work on complete table or figure environments. Due to the mechanism used by `LATEX2RTF` in processing these environments, at this time the only way to conditionally parse tables and figures is to include two complete versions of the environment in question, nested within an appropriate `\iflatex2rtf` structure.

LaTeX2RTF versions 1.9.15 to 1.9.18 had the ability to hide contents from LaTeX but expose them to LaTeX2RTF by starting a line with `%latex2rtf:.` This code was horribly broken, and it was removed. The same functionality is readily achieved using the `\iflargetortf` mechanism. For example, the old method allowed

```
%latex2rtf: This line will only appear in the latex2rtf output,
```

To get the same behavior, define `\iflargetortf` and use

```
\iflargetortf
This code is processed only by latex2rtf
\fi
```

5.3 Output Formatting

On writing output, LaTeX2RTF generates the operating system specific line ending code (`\n` on Unix, `\r\n` on DOS or Windows), depending on which system LaTeX2RTF was compiled. As both should be legal to any RTF Reader the resulting RTF rendering should not be affected.

LaTeX2RTF does not offer a whole lot of flexibility in how files are translated, but it does offer some. This flexibility resides in four files `direct.cfg`, `ignore.cfg`, `fonts.cfg`, and `language.cfg`. These files are documented in the next four sections.

5.4 Direct Conversion

The file `direct.cfg` is used for converting LaTeX commands by simple text replacement. The format consists of lines with a LaTeX command with backslash followed by comma. The rest of the line until a `'.'` character will be written to the RTF file when the command is found in the LaTeX file. Lines starting with a `'#'` character are ignored. After the `'.'` everything is ignored to end of line. To select a specific font use `*fontname*`, where `fontname` be defined in `fonts.cfg`. To write the `'*'` character use `**`.

```
\bigstar,{\u8727**}.
\copyright,\a9.
```

In general, specific fonts should not be specified in this file. There is a mechanism to do this, but it turns out that this is not as useful as originally thought. The main reason that this fails is because the conversion of equations from Word fields to Equation Editor objects is buggy. The consequence is that to have symbols show up properly, they must be encoded differently when the Symbol and MT Extra fonts are used — depending on whether Word fields are active or not. It was all very tedious to figure out a mechanism that was “least broken.”

5.5 Ignore Command

The file `ignore.cfg` is used for defining how to ignore specific commands. This file is used for recognition of LaTeX variables, user defined variables, and some simple commands. All variables are ignored but the converter must know the names to correctly ignore assignments to variables. Lines in this file consist of a variable name with backslash, followed by comma and the type of the variable followed by `'.'`. Possible types are

```
'NUMBER'    simple numeric value
```


- ‘MEASURE’ numeric value with following unit of measure
- ‘OTHER’ ignores anything to the first character after ‘=’ and from there to next space.
e.g., `\setbox\bak=\hbox`
- ‘COMMAND’ ignores anything to next ‘\’ and from there to the occurrence of anything but a
letter e.g., `\newbox\bak`
- ‘SINGLE’ ignores single command e.g., `\noindent`
- ‘PARAMETER’
 ignores a command with one parameter e.g., `\foo{bar}`
- ‘PACKAGE’ does not produce a Warning message if PACKAGE is encountered, e.g.,
‘`\kleenex,PACKAGE.`’ ignores ‘`\usepackage{kleenex}`’
- ‘ENVCMD’ intended to process contents of unknown environment as if it were plain L^AT_EX,
e.g. ‘`\environ,ENVCMD.`’
Therefore ‘`\begin{environ} text \end{environ}`’ would be converted to
‘text’. Doesn’t work in L^AT_EX2RTF version 2.1.0 up to and including 2.3.4.
- ‘ENVIRONMENT’
 ignores contents of that environment, e.g., with ‘`\ifhtml,ENVIRONMENT.`’,
‘`\begin{ifhtml} text \end{ifhtml}`’ ignores ‘text’.

The types are in upper case exactly as above. Do not use spaces. Lines starting with a ‘#’ character are ignored. After the ‘.’ everything is ignored to end of line. Example:

```
\pagelength,MEASURE.
```

5.6 Font Configuration

The file `fonts.cfg` contains the font name mapping. For example, this file determines what font is used to represent `\rm` characters in the RTF file.

A line consists of a font name in L^AT_EX followed by comma and a font name in RTF. The end is marked by a ‘.’. No spaces are allowed. The L^AT_EX font will be converted to the RTF font when it is found in the L^AT_EX file. If multiple translations for the same L^AT_EX font are specified, only the first is used. All fonts in a L^AT_EX file that are not in this file will be mapped to the default font. All RTF fonts listed in this file will be in every RTF file header whether used or not. Lines starting with a ‘#’ character are ignored. After the ‘.’ everything is ignored to end of line.

To add a RTF font not used as substitute for a L^AT_EX font — for example a Symbol font used in `direct.cfg` — use a dummy L^AT_EX name like in the following

```
Dummy3,MathematicalSymbols.
```

Make sure you use the correct font name. Take care of spaces in font names. The default fonts are named Roman `\rm`, Slanted `\sl`, Sans Serif `\sf`, Typewriter `\tt`, or Calligraphic `\cal`.

5.7 Language Configuration

The file(s) `language.cfg` control the translation of L^AT_EX's “hardcoded” sectioning names. The standard L^AT_EX styles have some fixed Title names like ‘Part’, ‘Reference’ or ‘Bibliography’ that appeared in English or German in the output with the original versions of L^AT_EX2RTF.

It is unlikely that you will need to create a new `language.cfg` file. However, just look at one of the existing files and follow the pattern. The format is really simple.

6 Error Messages and Logging

As stated in the Debugging section, `LATEX2RTF` provides a means to control the amount of debugging information through the `-d#` switch. By using a debugging level of 4, you can get a pretty good idea of what `LATEX` command caused the problem and what line that command might be found on. Warnings and error messages are output to `stderr` and by default listed in the console window. They can be redirected to a file “`latex2rtf.log`” by appending `2>latex2rtf.log` to the command line.

‘Fatal error messages’

indicate a bug in the source code. PLEASE report them, if they do not appear in the documentation (see Section 8.4 [Reporting Bugs], page 29).

‘Error messages’

always abort the program and are caused by conditions that prevent further conversion of the input file. Typically this is caused by `LATEX2RTF` getting hopelessly confused by the number of braces in the `LATEX` file.

‘Warning messages’

inform you, that there is some conversion loss from `LATEX` to RTF, or that the output file has some restrictions on some RTF Readers. Most of these warnings can be suppressed by adding the offending command to the `ignore.cfg` file.

Error and Warning messages should follow the GNU Coding standards, i.e. they have the format

```
inputfile':line: Error|Warning: message
```

You can also control the level of debugging output by inserting `\verbositylevel{#}` in the `LATEX` file. This is very handy if you have a large `LATEX` file that is failing in only a small section. For example,

```
problem free latex file ....
\verbositylevel{5}
problematic code
\verbositylevel{0}
```

will cause a huge amount of debugging information to be emitted for the problematic code.

Error reporting and logging still has many inconsistencies, but it gets better with each release. Don't try to make any sense in debugging levels above 4, these are for my own delight only and can change significantly between versions.

The `inputfile` may be incorrectly identified if it is incorporated through `\input` or `\include`. The line may be also be wrong at times. See Section 8.3 [Known Bugs], page 29.

7 History & Copyright

In 1994 the first Version of L^AT_EX2RTF was written by Fernando Dorner and Andreas Granzer of the Viena University supervised by Ralf Schlatterbeck in a one-semester course. They created a simple L^AT_EX parser and added most of the infrastructure for the program. This was version 1.0 of L^AT_EX2RTF. In 1995, work on L^AT_EX2RTF was continued in another one-semester course by Friedrich Polzer and Gerhard Trisko. The result was L^AT_EX2RTF version 1.5. Ralf Schlatterbeck (ralf “at” zoo.priv.at) maintained and extended L^AT_EX2RTF until 1998.

In 1998 Georg Lehner (jorge.lehner “at” gmx.net) found the reference to L^AT_EX2RTF on the TeX Conversion Webpage (<http://tug.org/utilities/texconv/index.html>) of Wilfried Hennings and added some functionality and took over the maintainence of the program. The last version release by Georg is 1.8aa. The bulk of development post 1.8aa was done by Scott Prahl. Wilfried Hennings now coordinates the development of the program and maintains the project on SourceForge (<http://sourceforge.net/projects/latex2rtf/>) where there are also (low volume) mailing lists for users and developers. Mailing via one of these lists requires subscription to the list (to prevent spam). For subscription to these lists visit the page: users list (<http://lists.sourceforge.net/lists/listinfo/latex2rtf-users>) or developers list (<http://lists.sourceforge.net/lists/listinfo/latex2rtf-developers>)

As of June 2016, version 2.3.11 of L^AT_EX2RTF is available.

The contents of this manual were composed by copying shamelessly what was available in the original sources and documentation.

8 LaTeX2RTF under Development

8.1 Unimplemented Features

- LaTeX2RTF ignores some optional parameters of `\documentstyle`
- Add the code to produce the corresponding chapter, section, and page numbering with headings and myheadings pagestyles. Implement `\markboth` and `\markright`.
- To support `\tableofcontents` there would be two approaches: Transfer sectioning information, title text and then produce page numbers by the rtf- reader. Scan and label all of the sectioning commands while reading and then construct the sectioning information using these labels. Needs two passes on LaTeX input.

8.2 Missing options

Missing or buggy command line options.

`-d` Information logging and Error reporting is not implemented consistently. Need to test and track problems with the `linenumber` and with the file name.

`--long_names` It would be useful to implement the GNU long option names, e.g.: `'-debug'`, `'-output_file'`, `'-quiet'`, etc. This could be done by switching to the GNU `getopt` package.

8.3 Known Bugs

1. The first parameter of a `\link{anchor}[ltx]{label}` is converted to the rtf-output. Label is stored to `hyperref` for later use, the optional parameter is ignored. `[ltx]` should be processed as Otfried recommends it, to use for exclusive LaTeX output.e.g: `\link{readhere}[~\Ref]{explaining: chapter}`. Since `{explaining:chapter}` is yet read by LaTeX and `hyperlatex` when `[...]` is evaluated it produces the correct reference. LaTeX2RTF is only strolling from left to right through the text and can't remember what she will see in the future.
2. The diagnostics routine does not output the correct (actual) input filename. (`'aux'`, `'bbl'`, `\input`).

8.4 Reporting Bugs

Report bugs to to the bug tracking system at SourceForge (<http://sourceforge.net/projects/latex2rtf/>). Only report bugs for the latest version of LaTeX2RTF that is available. Please provide the following information and observe the following guidelines when reporting a bug in the program:

1. State the version of LaTeX2RTF that you are using. You can get the version by specifying the `-V` option to LaTeX2RTF.
2. Specify the your operating system and version. Be sure to check the file `'Makefile'` for settings that may be specific to your machine, especially for some versions of SunOS there may be settings which are needed to compile successfully. Do this before submitting a bug report.

3. If the program produces wrong output or does not work for you, include a short \LaTeX file along with a description of the problem. Isolating the bug into a small \LaTeX file does two things. First, it provides a file that can be used to test future versions of \LaTeX2RTF and second, it certainly improves the chances that the bug will get some attention. Do not send me large \LaTeX or RTF files, I simply do not have the time to wade through large files to search for a bug!
4. Be patient. I am maintaining the program in my free time. I did not write most of the code. Often I do not have the time to answer to your question. I will, however, try to fix reported bugs in upcoming releases.

8.5 Todo List

Scott's ToDo list

- Use lex/yacc to implement getSection
- Add support for pagestyle
- Better support for ignoring commands

Georg's todo list

- Make this Manual more consistent, the ToDo and Known Bug List shorter and the Features List longer.
- Harmonize all of the error and warning messages.
- Put warnings everywhere applicable about producing RTF 1.4 tokens.
- Provide an Error and Warning recovery guide to the user.
- Add a chapter with lists of all \LaTeX commands that convert, and that do not convert to RTF, including their status (for future releases, never, partially functional, ...).

8.6 Command List

Listed here are all the \LaTeX commands currently parsed by \LaTeX2RTF . Note: inclusion in this list does not mean that a command is fully and correctly handled by \LaTeX2RTF . In some cases the commands here are place-holders only, and are not implemented at all. The list is provided to encourage developers to note any departures from the behaviour that \LaTeX users will expect. The location of the commands is noted to assist anyone interested in hacking on the C source code. This list is a work in progress, and may not be immediately useful to general users, other than to indicate those commands that we have at least contemplated implementing.

8.6.1 General Commands

These commands are found in the `commands[]` array in `commands.c`. They are arranged alphabetically within sections according to function.

8.6.1.1 Basic Commands

All listed commands work as expected.

`begin`

`centerline`

end
endnote
footnote
raggedright
the
today
vcenter

8.6.1.2 Font Commands

All listed commands work as expected.

bf
bfseries
cal
em
emph
enotesize
footnotesize
HUGE
Huge
huge
it
itshape
LARGE
Large
large
mathbf
mathcal
mathit
mathmd
mathnormal
mathrm
mathsc
mathsf
mathsl

mathtt
mathup
mdseries
mit
normalfont
normalsize
rm
rmfamily
sc
scfamily
scriptsize
scshape
sf
sffamily
sl
slshape
small
ssmall
textbf
textfont
textit
textmd
textnormal
textrm
textsc
textsf
textsl
texttt
textup
tiny
tt
ttfamily
underbar
underline
upshape

8.6.1.3 Logos

All listed commands work as expected.

AmSLaTeX

AmSTeX

BibTeX

kern

LaTeX

latex

LaTeXe

lower

LyX

SLiTeX

TeX

8.6.1.4 Special Characters

These commands all work as expected.

\

acute

b

bar

breve

c

check

d

ddot

dot

grave

H

hat

i

j

l

L

r

tilde

u

v

vec

8.6.1.5 Sectioning Commands

chapter

chapter*

paragraph

paragraph*

part

part*

section

section*

subparagraph

subparagraph*

subsection

subsection*

subsubsection

subsubsection*

8.6.1.6 Uncategorized

These commands need to be organized into new or existing sections.

abstract

addcontents

Ignored

addcontentsline

Ignored

addvspace Ignored

aleph

Alph

alph Ignored

alpha

Alpha Ignored

amalg

and

angle

appendix Ignored

approx

arabic Ignored

ast

author

baselineskip

because

beta

Beta

bibentry

bibitem

bibliography

bibliographystyle

bibliographystyle
Ignored

bigskip

bot

BoxedEPSF

bullet

cap

caption

cdot

cdots

centering

char

chi

Chi

circ

cite

citeonline

cleardoublepage

clearpage

clubsuit

cong

contentsline

coprod

cup

date

ddots

delta

Delta

dfrac

Diamond

diamondsuit

div

doteq

dotfill There is no rtf code for dotfill; $\text{\LaTeX}2\text{RTF}$ inserts an ellipsis only.

dots

dots

downarrow

Downarrow

efloatseparator

ell

emptyset

endinput

endnotemark

Ignored

ensuremath

epsfbox

epsfile

epsilon

eqref

equiv

eta

exists

fbox

fbox

fnsymbol Ignored

footnotemark

Ignored

forall

frac

Frac

framebox Ignored

frenchspacing

Ignored

gamma

Gamma

ge

geq

gg

glossary Ignored

glossaryentry

Ignored

hbar

hbox

heartsuit

hsize

hslash

hspace Ignored

hspace* Ignored

htmladdnormallink

htmlref

iiint

iint

Im

in

include

includegraphics

includegraphics*

includeonly

Ignored

indent

index

indexentry Ignored

infty

input

int

int

iota

kappa

label

lambda

Lambda

land

langle

lceil

ldots

le

left

leftarrow

Leftarrow

leftharpoondown

leftleftarrows

leftrightarrow

Leftrightarrow

leftrightharrows

leq

let Ignored

letterspace

lfloor

lim

liminf

limsup

linebreak Ignored

lineskip

listoffigures

listoftables

ll

longleftarrow
longleftarrows
longrightarrow
lor
makebox Ignored
maketitle
mapsto
marginpar Ignored
markboth Ignored
markright Ignored
matrix
mbox
measuredangle
medskip
mho
moveleft
moveright
mp
mu
multicolumn
nabla
ne
narrow
neg
neq
newblock
newcount Ignored
newfont Ignored
newpage
newsavebox
Ignored
nobibliography
Ignored
nobreakspace
nocite

noindent

nolinebreak

Ignored

nonfrenchspacing

Ignored

nonumber

nopagebreak

Ignored

notag

nu

numberline

narrow

omega

Omega

omicron

onecolumn

onlinecite

oplus

oslash

otimes

output

Ignored

overline

pagebreak

pagenumbering

Ignored

pageref

pagestyle

Ignored

par

parbox

partial

perp

phi

Phi

pi

Pi

pm
prec
printindex
prod
prod
propto
protect Ignored
psfig
psfrag Ignored
psi
Psi
qquad
quad
raisebox Ignored
rangle
rceil
Re
ref
refstepcounter
rfloor
rho
right
Rightarrow
rightarrow
rightharpoonup
rightleftarrows
rightleftharpoons
rightrightarrows
Roman Ignored
roman Ignored
rule
samepage Ignored
savebox Ignored
sbox Ignored
searrow

setbox
settowidth Ignored
sigma
Sigma
sim
simeq
smallskip
spadesuit
sqrt
stackrel
stepcounter
Ignored
stretch Ignored
subset
subseteq
succ
sum
sum
supset
supseteq
surd
swarrow
tableofcontents
tau
textalpha
textbeta
textbullet
textchi
textcolor
textDelta
textdelta
textellipsis
textepsilon
texteta

textGamma
textgamma
textiota
textkappa
textLambda
textlambda
textmu
textnu
textOmega
textomega
textperiodcentered
textPhi
textphi
textPi
textpi
textPsi
textpsi
textSigma
textsigma
textsubscript
textsuperscript
textTau
texttau
textTheta
texttheta
textXi
textxi
textzeta
thanks
therefore
Theta
theta
tikzpicture
times
title

to

triangleleft

triangleright

twocolumn

typeaout Ignored

Typein Ignored

typein Ignored

typeout Ignored

Uparrow

uparrow

updownarrow

Updownarrow

upsilon

Upsilon

url

usebox Ignored

value

varepsilon

varnothing

varphi

varpi

varpropto

varsigma

vartheta

vbox

vdots

vee

verb

verb*

vref

vsize

vskip

vspace

vspace*

wedge

wp

xi

Xi

zeta

8.6.2 Preamble Commands

These commands are found in `PreambleCommands[]` in `commands.c`, and are implemented in `preamble.c`.

addtocounter

addtolength

baselineskip

celsius

cfoot

chead

cline

DeclareRobustCommand

DeclareRobustCommand*

def

degreecelsius

documentclass

documentstyle

doublespacing

Currently, the only command from the `setspace` package that is implemented, and the only way to modify line spacing.

endnotetext

EUR

euro

evensidemargin

fancyfoot

fancyhead

flushbottom

footnotetext

geometry Currently recognizes `*ratio`, `*centering`, `*margin`, `left`, `right`, `inner`, `outer`, `top`, `bottom`, `right`, `left` (including `vmargin`, `hratio` etc.)

headheight

headsep

hline

hoffset

htmladdnormallink
htmlref

hyphenation
iflertextortf
ifx

include

input

largetortffalse
 Ignored

largetortftrue
 Ignored

lfoot

lhead

listoffiles Ignored

makeglossary
 Ignored

makeindex
 Ignored

makelabels
 Ignored

markboth Ignored

markright Ignored

newcommand
newcounter
newenvironment
newif

newlength

newtheorem
nobreakspace
nofiles Ignored

oddsidemargin
pagenumbering
 Ignored

pagestyle

parindent

parskip

`providecommand`
`raggedbottom`
`renewcommand`
`renewenvironment`
`renewtheorem`
 Ignored

`resizebox`
`resizebox*`

`rfoot`

`rhead`

`setcounter`

`setlength`

`signature`

`textheight`

`textwidth`

`theendnotes`
`thepage`

`thispagestyle`
 Ignored

`topmargin`

`usepackage`
`verbositylevel`
`voffset`

8.6.3 Letter Commands

Found in `LetterCommands []` in `commands.c`.

`address`

`cc`

`closing`

`encl`

`opening`

`ps`

`signature`

8.6.4 Language Commands

8.6.4.1 German Commands

Found in `GermanModeCommands []` in `commands.c`.

`ck`

`glqq`

`glq`

`grq`

`grqq`

8.6.4.2 Czech Commands

`uv`

8.6.4.3 French Commands

`deuxpoints`

`dittomark`

`FCS`

`fg`

`fup`

`ieme`

`iemes`

`ier`

`iere`

`ieres`

`iers`

`inferieura`

`LCS`

`lq`

`lqq`

`numero`

`Numero`

`numeros`

`Numeros`

`og`

`pointexclamation`

`pointinterrogation`

`pointvirgule`

`primo`

quarto

rq

rqq

secundo

superieura

tertio

up

8.6.4.4 Russian Commands

CYRA

cyra

CYRB

cyrb

CYRC

cycr

CYRCH

cyrch

CYRCHSH

cyrchsh

CYRD

cyrd

CYRE

cyre

CYREREV

cyrerev

CYRERY

cyrery

CYRF

cyrf

CYRG

cyrgr

CYRH

cyrh

CYRHRDSN

cyrhrdsn

CYRI

cyrī

CYRISHRT

cyrishrt

CYRK

cyrk

CYRL

cyrł

CYRM

cym

CYRN

cyrn

CYRO

cyro

CYRP

cyrp

CYRR

cyr

CYRS

cyrs

CYRSFTSN

cyrsftsn

CYRSH

cyrsh

CYRT

cyrt

CYRU

cyrū

CYRV

cyrv

CYRYA

cyrya

CYRYU

cryu

CYRZ

cyrz

CYRZH

cyrzh

8.6.5 Citation Commands

8.6.5.1 Apacite Commands

AX

BAnd

BBA

BBAA

BBAB

BBAY

BBC

BBCP

BBCQ

BBN

BBOP

BBOQ

BCAY

BCBL

BCBT

BCHAIR

BCHAIRS

BCnt

BCntIP

BED

BEd

BEDS

Bem

BIP

BMTh

BNUM

BNUMS

BOthers

BOWP

BPG

BPGS

BPhD

BREPR

BTR

BTRANS

BTRANSS

BUMTh

BUPhD

BVOL

BVOLS

citeA

citeauthor

citeNP

citeyear

citeyearNP

fullcite

fullciteA

fullciteauthor

fullciteNP

shortcite

shortciteA

shortciteauthor

shortciteNP

8.6.5.2 AuthorDate Commands

citename

shortcite

8.6.5.3 Harvard Commands

`cite`

`citeaffixed`

`citeasnoun`

`citename`

`citeyear`

`citeyear*`

`harvardand`

`harvarditem`

`harvardyearleft`

`harvardyearright`

`possessivecite`

8.6.5.4 HyperLatex Commands

`Cite`

`link`

`Pageref`

`Ref`

`S`

`xlink`

8.6.5.5 Apacite Commands

`bibpunct`

`cite`

`citealp`

`Citealp`

`citealp*`

`citealt`

`Citealt`

`citealt*`

`citeauthor`

`Citeauthor`

`citeauthor*`

`citep`

`Citep`

`citep*`

`citet`

`Citet`

`citet*`

`citetext`

`citeyear`

`citeyearpar`

8.6.6 Acronym Commands

`usepackage [options] {acronym}`

`ac`

`acfi`

`acro`

`acrodef`

`acrodefplural`

`acused`

8.6.7 Other Commands

Other Commands:

`item`

`caption`

`center`

8.6.8 Environments

Environments processed - found in `params[]` in `commands.c`.

`abstract`

`acknowledgments`

`align`

`align*`

`alltt`

`array`

`bf`

`bfseries`

`center`

`comment`

`compactenum`

`compactitem`

`description`

`displaymath`

`document`

em
enumerate
eqnarray
eqnarray*
equation
equation*
figure
figure*
flushleft
flushright
htmlonly Ignored
it
itemize
itshape
landscape
latexonly Ignored
letter
list
longtable
longtable*
math
mdseries
minipage
multicolumn
music
picture
quotation
quote
rawhtml Ignored
rm
rmfamily
sc
scshape

sf

sffamily

sl

sloppypar

slshape

small

tabbing

table

table*

tabular

tabular*

thebibliography

theindex Ignored

titlepage

tt

ttfamily

verbatim

Verbatim

verse

C

c	33	cong	35
cal	31	contentsline	36
cap	35	coprod	36
caption	35	cup	36
cc	47	cyra	49
cdot	35	CYRA	49
cdots	35	cyrb	49
celsius	45	CYRB	49
center	54	cyrch	49
centering	35	cyrchsh	49
centerline	30	CYRC	49
cfoot	45	CYRCH	49
chapter	34	CYRCHSH	49
chapter*	34	cyrd	49
char	35	CYRD	49
chead	45	cyre	49
check	33	cyrerev	49
chi	35	CYRE	49
Chi	35	CYREREV	49
circ	35	cyrery	49
cite	35, 53	CYRERY	49
Cite	53	cyrf	49
citeaffixed	53	CYRF	49
Citealp	53	cyrg	49
citealp	53	CYRG	49
citealp*	53	cyrh	49
Citealt	53	cyrhrdsn	49
citealt	53	CYRH	49
citealt*	53	CYRHRDSN	49
citeasnoun	53	cyri	50
Citeauthor	53	cyrishrt	50
citeauthor	52, 53	CYRI	50
citeauthor*	53	CYRISHRT	50
citeA	52	cyrk	50
citename	52, 53	CYRK	50
citeNP	52	cyrl	50
citeonline	35	CYRL	50
citep	53	cyrn	50
Citep	53	CYRM	50
citep*	53	cyro	50
citet	54	CYRO	50
Citet	54	cyrp	50
citet*	54	CYRP	50
citetext	54	cyrr	50
citeyear	52, 53, 54	CYRR	50
citeyear*	53	cyrs	50
citeyearNP	52	cyrsftsn	50
citeyearpar	54	CYRS	50
ck	48	CYRSFTSN	50
cleardoublepage	35	cyrsh	50
clearpage	35	CYRSH	50
cline	45	cyrt	50
closing	47	CYRT	50
clubsuit	35	cyru	50
comment	54	CYRU	50
compactenum	54	cyrv	50
compactitem	54		

CYRV	50
cyrva	50
CYRYA	50
cyrYu	51
CYRYU	50
cyrz	51
cyrzh	51
CYRZ	51
CYRZH	51

D

d	33
date	36
ddot	33
ddots	36
DeclareRobustCommand	45
DeclareRobustCommand*	45
def	45
degreecelsius	45
Delta	36
delta	36
description	54
deuxpoints	48
dfrac	36
Diamond	36
diamondsuit	36
displaymath	54
dittomark	48
div	36
document	54
documentclass	45
documentstyle	45
dot	33
doteq	36
dotfill	36
dots	36
doublespacing	45
downarrow	36
Downarrow	36

E

efloatseparator	36
ell	36
em	31, 55
emph	31
emptyset	36
encl	47
end	31
endinput	36
endnote	31
endnotemark	36
endnotetext	45
enotesize	31
ensuremath	36
enumerate	55
epsfbox	36
epsffile	36

epsilon	36
eqnarray	55
eqnarray*	55
eqref	36
equation	55
equation*	55
equiv	36
eta	36
euro	45
EUR	45
evensidemargin	45
exists	36

F

fancyfoot	45
fancyhead	45
fbox	36
FCS	48
fg	48
figure	55
figure*	55
flushbottom	45
flushleft	55
flushright	55
fnsymbol	36
footnote	31
footnotemark	36
footnotesize	31
footnotetext	45
forall	37
frac	37
Frac	37
framebox	37
frenchspacing	37
fullcite	52
fullciteauthor	52
fullciteA	52
fullciteNP	52
fup	48

G

gamma	37
Gamma	37
ge	37
geometry	45
geq	37
gg	37
glossary	37
glossaryentry	37
glq	48
glqq	48
grave	33
grq	48
grqq	48

H

harvardand.....	53
harvarditem.....	53
harvardyearleft.....	53
harvardyearright.....	53
hat.....	33
hbar.....	37
hbox.....	37
headheight.....	45
headsep.....	45
heartsuit.....	37
hline.....	45
hoffset.....	45
hsize.....	37
hslash.....	37
hspace.....	37
hspace*.....	37
htmladdnormallink.....	37, 46
htmlonly.....	55
htmlref.....	37, 46
huge.....	31
hyphenation.....	46
H.....	33
Huge.....	31
HUGE.....	31

I

i.....	33
ieme.....	48
iemes.....	48
ier.....	48
iere.....	48
ieres.....	48
iers.....	48
iflategortf.....	46
ifx.....	46
iiint.....	37
iint.....	37
Im.....	37
in.....	37
include.....	37, 46
includegraphics.....	37
includegraphics*.....	37
includeonly.....	37
indent.....	37
index.....	37
indexentry.....	38
inferieura.....	48
infty.....	38
input.....	38, 46
int.....	38
iota.....	38
it.....	31, 55
itemize.....	55
itshape.....	31, 55

J

j.....	33
--------	----

K

kappa.....	38
kern.....	33

L

l.....	33
label.....	38
lambda.....	38
Lambda.....	38
land.....	38
landscape.....	55
langle.....	38
Large.....	31
large.....	31
LARGE.....	31
latex.....	33
latexonly.....	55
lategortffalse.....	46
lategortftrue.....	46
LaTeX.....	33
LaTeXe.....	33
lceil.....	38
LCS.....	48
ldots.....	38
le.....	38
left.....	38
Leftarrow.....	38
leftarrow.....	38
leftharpoondown.....	38
leftleftarrows.....	38
leftrightarrow.....	38
Leftrightarrow.....	38
leftrightarrows.....	38
leq.....	38
let.....	38
letter.....	55
letterspace.....	38
lfloor.....	38
lfoot.....	46
lhead.....	46
lim.....	38
liminf.....	38
limsup.....	38
linebreak.....	38
lineskip.....	38
link.....	53
list.....	55
listoffigures.....	38
listoffiles.....	46
listoftables.....	38
ll.....	38
longleftarrow.....	39
longleftarrows.....	39

longrightarrow	39
longtable	55
longtable*	55
lor	39
lower	33
lq	48
lqq	48
L	33
LyX	33

M

makebox	39
makeglossary	46
makeindex	46
makelabels	46
maketitle	39
mapsto	39
marginpar	39
markboth	39, 46
markright	39, 46
math	55
mathbf	31
mathcal	31
mathit	31
mathmd	31
mathnormal	31
mathrm	31
mathsc	31
mathsf	31
mathsl	31
mathtt	32
mathup	32
matrix	39
mbox	39
mdseries	32, 55
measuredangle	39
medskip	39
mho	39
minipage	55
mit	32
moveleft	39
moveright	39
mp	39
mu	39
multicolumn	39, 55
music	55

N

nabla	39
ne	39
nearrow	39
neg	39
neq	39
newblock	39
newcommand	46
newcount	39

newcounter	46
newenvironment	46
newfont	39
newif	46
newlength	46
newpage	39
newsavebox	39
newtheorem	46
nobibliography	39
nobreakspace	39, 46
nocite	39
nofiles	46
noindent	40
nolinebreak	40
nonfrenchspacing	40
nonumber	40
nopagebreak	40
normalfont	32
normalsize	32
notag	40
nu	40
numberline	40
numero	48
Número	48
Numeros	48
numeros	48
narrow	40

O

oddsidemargin	46
og	48
omega	40
Omega	40
omicron	40
onecolumn	40
onlinecite	40
opening	47
oplus	40
oslash	40
otimes	40
output	40
overline	40

P

pagebreak	40
pagenumbering	40, 46
pageref	40
Pageref	53
pagestyle	40, 46
par	40
paragraph	34
paragraph*	34
parbox	40
parindent	46
parskip	46
part	34
part*	34
partial	40
perp	40
phi	40
Phi	40
pi	40
Pi	40
picture	55
pm	41
pointexclamation	48
pointinterrogation	48
pointvirgule	48
possessivecite	53
prec	41
primo	48
printindex	41
prod	41
propto	41
protect	41
providecommand	47
ps	47
psfig	41
psfrag	41
psi	41
Psi	41

Q

qquad	41
quad	41
quarto	49
quotation	55
quote	55

R

r	33
raggedbottom	47
raggedright	31
raisebox	41
rangle	41
rawhtml	55
rceil	41
Re	41

Ref	53
ref	41
refstepcounter	41
renewcommand	47
renewenvironment	47
renewtheorem	47
resizebox	47
resizebox*	47
rfloor	41
rfoot	47
rhead	47
rho	41
right	41
rightarrow	41
Rightarrow	41
rightharpoonup	41
rightleftarrows	41
rightleftharpoons	41
rightrightarrow	41
rm	32, 55
rmfamily	32, 55
Roman	41
roman	41
rq	49
rqq	49
rule	41

S

samepage	41
savebox	41
sbox	41
sc	32, 55
scfamily	32
scriptsize	32
scshape	32, 55
searrow	41
section	34
section*	34
secundo	49
setbox	42
setcounter	47
setlength	47
settoheight	42
sf	32, 56
sffamily	32, 56
shortcite	52
shortciteauthor	52
shortciteA	52
shortciteNP	52
Sigma	42
sigma	42
signature	47
sim	42
simeq	42
sl	32, 56
SLiTeX	33
sloppypar	56

slshape.....	32, 56
small.....	32, 56
smallskip.....	42
spadesuit.....	42
sqrt.....	42
ssmall.....	32
stackrel.....	42
stepcounter.....	42
stretch.....	42
subparagraph.....	34
subparagraph*.....	34
subsection.....	34
subsection*.....	34
subset.....	42
subseteq.....	42
subsubsection.....	34
subsubsection*.....	34
succ.....	42
sum.....	42
superieura.....	49
supset.....	42
supseteq.....	42
surd.....	42
swarrow.....	42
S.....	53

T

tabbing.....	56
table.....	56
table*.....	56
tableofcontents.....	42
tabular.....	56
tabular*.....	56
tau.....	42
tertio.....	49
textalpha.....	42
textbeta.....	42
textbf.....	32
textbullet.....	42
textchi.....	42
textcolor.....	42
textdelta.....	42
textDelta.....	42
textellipsis.....	42
textepsilon.....	42
texteta.....	42
textfont.....	32
textgamma.....	43
textGamma.....	43
textheight.....	47
textiota.....	43
textit.....	32
textkappa.....	43
textLambda.....	43
textlambda.....	43
textmd.....	32
textmu.....	43
textnormal.....	32

textnu.....	43
textomega.....	43
textOmega.....	43
textperiodcentered.....	43
textphi.....	43
textPhi.....	43
textPi.....	43
textpi.....	43
textPsi.....	43
textpsi.....	43
textrm.....	32
textsc.....	32
textsf.....	32
textsigma.....	43
textSigma.....	43
textsl.....	32
textsubscript.....	43
textsuperscript.....	43
texttau.....	43
textTau.....	43
texttheta.....	43
textTheta.....	43
texttt.....	32
textup.....	32
textwidth.....	47
textXi.....	43
textxi.....	43
textzeta.....	43
TeX.....	33
thanks.....	43
the.....	31
thebibliography.....	56
theendnotes.....	47
theindex.....	56
thepage.....	47
therefore.....	43
Theta.....	43
theta.....	43
thispagestyle.....	47
tikzpicture.....	43
tilde.....	34
times.....	43
tiny.....	32
title.....	43
titlepage.....	56
to.....	44
today.....	31
topmargin.....	47
triangleleft.....	44
triangleright.....	44
tt.....	32, 56
ttfamily.....	32, 56
twocolumn.....	44
typeaout.....	44
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