

TeX LOCAL GUIDE

● About this Help Document

Following the links to the titles of each frame will cause a frame to fill the window - thus enabling searching of individual frames, and facilitating setting of bookmarks to individual pages. (*Contents* frames, have two links to the title; the word *Contents* brings the *Contents* frames to the top.)

This help has been built with UNIX machines in mind. If you are using *TeXtures* on a Macintosh, you should find parts of this help useful, particularly, if you have updated your version of *LaTeX* to run *LaTeX 2e* (as opposed to *LaTeX 2.09* which demands files should start with the *obsolete* command `\documentstyle ...`).

Note to *TeXtures* and remote users: feel free to download local *LaTeX* packages/document classes (you will need to have *LaTeX 2e* for these) or local plain *TeX* files.

A primitive but effective way to *Search* for (*La*)*TeX* related files is by checking `ls-R` for the appropriate `.sty` or `.tex` or whatever file (e.g. use *Find* from the *Edit* menu). Each line ending with a colon (`:`) denotes a directory containing the files that follow ... the `.` is short for `/soft/share/tex/texmf`.

- Changes
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- FAQ (Frequently Asked Questions)
- Viewing `.dvi/.ps` files
- Introduction: The flavours of TeX
- The commands that invoke TeX
- What do the file extensions mean?
- Recognising TeX/LaTeX 2.09/LaTeX 2e/AmS-TeX files
- Setting up directories for (La)TeX macros, BibTeX and MakeIndex files
- LaTeX
 - General LaTeX Help
 - LaTeX 2e/LaTeX 2.09
 - *LaTeX 2e* vs *LaTeX 2.09*
 - Converting a *LaTeX 2.09* document into *LaTeX 2e*
 - A case study: conversion of a *LaTeX 2.09* document into *LaTeX 2e* with *AmS-LaTeX*
 - Logical vs Explicit Markup
 - What do we mean by the terms *Logical Markup* and *Explicit Markup*?
 - How do I create the macros I need for *Logical Markup*?
 - Another example
 - I don't want to send so many files to my publisher!
 - *Excellent .dvi/.ps/.pdf* documentation.

Title	.dvi file	.ps file	.pdf file
<i>Local Guide - A Very Brief Introduction to LaTeX</i>	uwabasics.dvi	uwabasics.ps	uwabasics.pdf
<i>LaTeX 2e: The macro package for TeX</i>	latex2e.dvi	latex2e.ps	latex2e.pdf
<i>The not so short introduction to LaTeX 2e</i>	lshort2e.dvi	lshort2e.ps	lshort2e.pdf
<i>A LaTeX survival guide for Unix systems</i>	guide.dvi	guide.ps	guide.pdf
<i>Essential LaTeX++</i>	essential.dvi	essential.ps	essential.pdf
<i>LaTeX 2e for authors</i>	usrguide.dvi	usrguide.ps	usrguide.pdf
<i>LaTeX 2e for class and package writers</i>	clsguide.dvi	clsguide.ps	clsguide.pdf
<i>The LaTeX 2e sources</i>	source2e.dvi	source2e.ps	
<i>AmS-LaTeX version 1.2 User's Guide</i>	amsl.doc.dvi	amsl.doc.ps	amsl.doc.pdf
<i>User's Guide to AMSFonts version 2.2 (Lots of extra maths symbols on pp19-21)</i>	amsfndoc.dvi	amsfndoc.ps	amsfndoc.pdf
<i>The uwamaths package</i>	uwamaths.dvi	uwamaths.ps	uwamaths.pdf
<i>The uwalet class</i>	uwalet.dvi	uwalet.ps	uwalet.pdf
<i>The uwathes class</i>	uwathes.dvi	uwathes.ps	uwathes.pdf
<i>Sample Honours Dissertation</i>	uwadissert.dvi	uwadissert.ps	uwadissert.pdf
<i>The uwaexam class</i>	uwaexam.dvi	uwaexam.ps	uwaexam.pdf
Example using the uwaexam class	uwaexam_eg.dvi	uwaexam_eg.ps	uwaexam_eg.pdf
Source file of above example. Follow the .txt link to view OR follow the .tex link to download.		uwaexam_eg.tex	uwaexam_eg.txt

○ Documentation for Journal article classes

Title	For Journaldvi file	.ps file
<i>The commalg class</i>	Communications in Algebra	commalg.dvi	commalg.ps

○ AmS-LaTeX

○ AMS journal information

○ Some nice packages

○ Templates

... In each case the .tex file and .txt file are identical.

Follow the .txt link to *view* OR follow the .tex link to *download*. The letter templates also have .dvi, .ps and .pdf links so that you can see what they look like after running the template through latex.

Template	Purpose of template
stdtemplate.tex stdtemplate.txt	A general purpose template for a <i>LaTeX</i> document (uses uwamaths package)
articletemplate.tex articletemplate.txt	A template for a <i>LaTeX</i> document using the article class (doesn't use uwamaths package)
amsarttemplate.tex amsarttemplate.txt	A template for a <i>LaTeX</i> document using the amsart class (doesn't use uwamaths package)
uwadissert.tex uwadissert.txt	A template for an honours dissertation (uses uwamaths package)
uwathesis.tex uwathesis.txt	A template for a PhD thesis (uses uwathes class)

Letter template	Purpose of template
lettertemplate.tex lettertemplate.txt lettertemplate.dvi lettertemplate.ps	A plain <i>LaTeX</i> template for a letter with the UWA logo in the letterhead (uses uwalet class)
resreporttitletemplate.tex resreporttitletemplate.txt resreporttitletemplate.dvi resreporttitletemplate.ps	A <i>LaTeX</i> template for generating the titlepage for UWA Maths Department Research Reports. As a side-effect it also generates a notification letter to the Australian Mathematical Society Gazette regarding the report (uses uwalet class with the resreport option)
cgplettertemplate.tex cgplettertemplate.txt cgplettertemplate.dvi cgplettertemplate.ps	A variation of <code>lettertemplate.tex</code> for use by Consulting Groups (uses uwalet class with option consgroup)
mgrlettertemplate.tex mgrlettertemplate.txt mgrlettertemplate.dvi mgrlettertemplate.ps	A variation of <code>lettertemplate.tex</code> for use by those with managerial roles in the department (uses uwalet class with option manager)
cgpmgrlettertemplate.tex cgpmgrlettertemplate.txt cgpmgrlettertemplate.dvi cgpmgrlettertemplate.ps	A variation of <code>lettertemplate.tex</code> for use by those with managerial roles of Consulting Groups in the department (uses uwalet class with options consgroup and manager)

- Downloading local packages/document classes
- **AmS-TeX**
 - AmS-TeX: *User's Guide to AmS-TeX Version 2.1* [`amsguide.dvi` | `amsguide.ps`]
 - AMS journal information
- **Plain TeX**
 - `.dvi/.ps` documentation.

Title	.dvi file	.ps file
<i>Publishing with TeX - BLUe's selection</i>	pwt.dvi	pwt.ps
<i>S-Tables v1.0</i>	stables_doc.dvi	stables_doc.ps

○ Letter Template

... The .tex file and .txt file are identical.

Follow the .txt link to *view* OR follow the .tex link to *download*. There are also .dvi, .ps and .pdf links so that you can see what it looks like after running the template through tex.

Template	Purpose of template
texlettertemplate.tex texlettertemplate.txt texlettertemplate.dvi texlettertemplate.ps texlettertemplate.pdf	A <i>TeX</i> template for a letter with the UWA logo in the letterhead

○ Downloading local *TeX* files

● **Extended Plain TeX**

eplain: *Extended Plain TeX* [eplain.dvi| eplain.ps]

● **BibTeX**

○ BibTeX Essentials

○ *BibTeXing* [btxdoc.dvi| btxdoc.ps]

○ *The Harvard family of bibliography styles* [harvard.dvi| harvard.ps]

○ **addbib** ... a program for easy creation of *BibTeX* database files.

There are also partbibtex and sortbibtex ... but the (*recommended*) program BibTool (below) handles their functions.

● **BibTool**

A program for managing *BibTeX* databases and more ...

See the documentation: [bibtool.dvi| bibtool.ps]

See also the *BibTool Quick Reference Card* [ref_card.dvi| ref_card.ps]

● **MakeIndex**

○ General MakeIndex Help

○ *MakeIndex: An Index Processor for LaTeX* [makeindex.dvi| makeindex.ps]

Note: This documentation makes references to \documentstyle ... read \documentclass in lieu.

Despite the document title ... makeindex can be used with *eplain*.

● **Dvips**

Dvips: A DVI-to-PostScript Translator [dvipsk.dvi| dvipsk.ps]

... (Options Summary: p. 37)

● **Dvips**

- **Creating .pdf files**
- **Ispell**
- **LaTeX2HTML**
- **LGrind**

Processes program source code for inclusion in *LaTeX* documents. See [lgrind.dvi|lgrind.ps]

- **MetaPost**
- ***Building Pictures with xfig***

... by Patrick Hew

- **Xy-pic**
 - **Documentation for Packages**
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