# The Suitability of the LaTeX Text Formatter for Thesis Preparation by Technical and Non-technical Degree Candidates

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[†]an egocentric imitation, actually

University of Washington
Graduate School

This is to certify that I have examined this copy of a doctoral dissertation by

Jim Fox

and have found that it is complete and satisfactory in all respects,
and that any and all revisions required by the final
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Reading Committee:

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Name of Committee member

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etc

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`http://staff.washington.edu/fox/tex/uwthesis.html`

where all the necessary files and documentation may be found.

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**Abstract**

The Suitability of the LaTeX Text Formatter
for Thesis Preparation by Technical and
Non-technical Degree Candidates

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This sample dissertation is an aid to students who are attempting to format their theses with LaTeX, a sophisticated text formatter widely available at the University of Washington and other institutions of higher learning.

- It describes the use of a specialized macro package developed specifically for thesis production at the University. The macros customize LaTeX for the correct thesis style, allowing the student to concentrate on the substance of his or her text.[1]

- It demonstrates the solutions to a variety of formatting challenges found in thesis production.

- It serves as a template for a real dissertation.

[1]See Appendix A to obtain the source to this thesis and the style file.

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## GLOSSARY

ARGUMENT: replacement text which customizes a LaTeX macro for each particular usage.

BACK-UP: a copy of a file to be used when catastrophe strikes the original. People who make no back-ups deserve no sympathy.

CLASS: a set of macros that combine for a single purpose. This thesis package constitute a class.

CONTROL SEQUENCE: the normal form of a command to LaTeX.

DELIMITER: something, often a character, that indicates the beginning and ending of an argument. More generally, a delimiter is a field separator.

DOCUMENT CLASS: a file of macros that tailors LaTeX for a particular document. The macros described by this thesis constitute a document class.

DOCUMENT OPTION: a macro or file of macros that further modifies LaTeX for a particular document. The option `[chapternotes]` constitutes a document option.

FIGURE: illustrated material, including graphs, diagrams, drawings and photographs.

FONT: a character set (the alphabet plus digits and special symbols) of a particular size and style. A couple of fonts used in this thesis are twelve point roman and *twelve point roman slanted*.

FOOTNOTE: a note placed at the bottom of a page, end of a chapter, or end of a thesis that comments on or cites a reference for a designated part of the text.

FORMATTER: (as opposed to a word-processor) arranges printed material according to instructions embedded in the text. A word-processor, on the other hand, is normally controlled by keyboard strokes that move text about on a display.

LaTeX: simply the ultimate in computerized typesetting.

MACRO: a complex control sequence composed of other control sequences.

PICA: a unit of length. One pica is twelve points and six picas is about an inch.

POINT: a unit of length. 72.27 points equals one inch.

ROMAN: a conventional printing typestyle using serifs. the decorations on the ends of letter strokes. This thesis is set in roman type.

RULE: a straight printed line; e.g., _____.

SERIF: the decoration at the ends of letter strokes.

TABLE: information placed in a columnar arrangement.

THESIS: either a master's thesis or a doctoral dissertation. This document also refers to itself as a thesis, although it really is not one.

## ACKNOWLEDGMENTS

The author wishes to express sincere appreciation to University of Washington, where he has had the opportunity to work with the TEX formatting system, and to the author of TEX, Donald Knuth, *il miglior fabbro*.

## DEDICATION

to my dear wife, Joanna

# Chapter 1

# INTRODUCTION

The utility of a clean, professionally prepared thesis is well documented[1] but, until recently, a degree candidate had no recourse but to submit his or her thesis to a typist for completion. Revisions were difficult and time consuming, and even at its best the resultant thesis still looked typed. The advent of computerized typesetting has revolutionized thesis preparation, and TEX in particular brings to the university student the power and flexibility of an 'industrial-strength' typesetter.

TEX is a flexible, complete, and professional typesetting system. It has been programmed to produce the same document on all machines, so a suitable printer can always be found for the final copy while drafts are made on more conventional and inexpensive printers. The 'suitable' standard is a 300 dot-per-inch laser printer, which is excellent for thesis production. Many such laser printers are available about the campus.

## *1.1 The Purpose of This Sample Thesis*

This sample is both a demonstration of the quality and propriety of a LATEX[2] formatted thesis, and is documentation for the preparation of a thesis. It has made extensive use of a custom class file developed specifically for this purpose at the University of Washington. Chapter II discusses TEX and LATEX. Chapter III describes the additional macros and functions provided by the custom thesis class file. Finally, Chapter IV discusses some special problems due to the inherent differences among the various computers and printers that support LATEX.

It is impossible to predict all the formatting problems one will encounter and there will be problems that are best handled by a specialist. The Graduate School may be able to

[1] See, for example, W. Shakespeare[8] for a recent discussion.

[2] We mean the LATEX $2_\varepsilon$ version of LATEX. Earlier versions, now called LATEX2.10 were much different.

help you find help. Some departments may also be able to provide LaTeX assistance.

### *1.2 Conventions and Notations*

In this thesis the typist refers to the user of LaTeX—the one who makes formatting decisions and chooses the appropriate formatting commands. He or she will most often be the degree candidate.

This document deals with LaTeX typesetting commands and their functions. Wherever possible the conventions used to display text entered by the typist and the resulting formatted output are the same as those used by the TeXbooks. Therefore, `typewriter type` is used to indicate text as typed by the computer or entered by the typist. It is quite the opposite of *italics,* which indicates a category rather than exact text. For example, `alpha` and `beta` might each be an example of a *label*.

### *1.3 Nota bene*

This sample thesis was produced by the LaTeX document class it describes and is acceptable to the Graduate School[11]. However, the use of this package does not guarantee acceptability of a particular thesis.

Chapter 2

# A BRIEF DESCRIPTION OF TEX

The TEX formatting program is the creation of Donald Knuth of Stanford University. It has been implemented on nearly every general purpose computer and produces exactly[1] the same copy on all machines.

## *2.1 What is it; why is it spelled that way; and what do really long section titles look like in the text and in the Table of Contents?*

TEX is a formatter. A document's format is controlled by commands embedded in the text. LATEX is a special version of TEX—preloaded with a voluminous set of macros that simplify most formatting tasks.

TEX uses *control sequences* to control the formatting of a document. These control sequences are usually words or groups of letters prefaced with the backslash character (\). For example, Figure 2.1 shows the text that printed the beginning of this chapter. Note the control sequence `\chapter` that instructed TEX to start a new chapter, print the title, and make an entry in the table of contents. It is an example of a macro defined by the LATEX macro package. The control sequence `\TeX`, which prints the word TEX, is a standard macro from the *TEXbook*. The short control sequence \\ in the title instructed TEX to break the title line at that point. This capability is an example of an extension to LATEX provided by the uwthesis document class.

Most of the time TEX is simply building paragraphs from text in your source files. No control sequences are involved. New paragraphs are indicated by a blank line in the input file. Hyphenation is performed automatically.

---

[1] "Exactly" specifically excludes the inherent variety in print devices.

```
\chapter{A Brief\\Description of \TeX}

The \TeX\ formatting program is the creation of
Donald Knuth of Stanford University.
```

Figure 2.1: The beginning of the Chapter II text

### *2.2 TEXbooks*

The primary reference for LaTeX is Lamport's second edition of the *LATEX User's Guide*[7]. It is easily read and should be sufficient for thesis formatting. See also the *LATEX Companion*[2] for descriptions of many add-on macro packages.

Although unnecessary for thesis writers, the *TEXbook* is the primary reference for TEXsperts worldwide.

### *2.3 Mathematics*

The thesis class does not expand on TEX's or LaTeX's comprehensive treatment of mathematical equation printing.[2] The *TEXbook*[3], *LATEX User's Guide*[7], and *The LATEX Companion*[2] thoroughly cover this topic.

### *2.4 Languages other than English*

Most LaTeX implementations at the University are tailored for the English language. However, LaTeX will format many other languages. Consult your department or contact the Center for Advanced Research Technology in the Arts and Humanities (CARTAH),

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[2] Although many TEX-formatted documents contain no mathematics except the page numbers, it seems appropriate that this paper, which is in some sense about TEX, ought to demonstrate an equation or two. Here then, is a statement of the *Nonsense Theorem*.

Assume a universe $E$ and a symmetric function \$ defined on $E$, such that for each $\$^{yy}$ there exists a $\$^{\overline{yy}}$, where $\$^{yy} = \$^{\overline{yy}}$. For each element $i$ of $E$ define $\mathcal{S}(i) = \sum_i \$^{yy} + \$^{\overline{yy}} + 0$. Then if $\mathcal{RR}$ is that subset of $E$ where $1 + 1 = 3$, for each $i$

$$\lim_{\$\to\infty} \int \mathcal{S}di = \begin{cases} 0, & \text{if } i \notin \mathcal{RR}; \\ \infty, & \text{if } i \in \mathcal{RR}. \end{cases}$$

cartha@u.washington.edu,

for assistance with non-English formatting.

Unusual characters can be defined via the font maker METAFONT (documented by Knuth[6]). The definitions are not trivial. Students who attempt to print a thesis with custom fonts may soon proclaim,

"$\grave{\alpha}\pi o\theta\alpha\nu\epsilon\hat{\imath}\nu \quad \theta\acute{\epsilon}\lambda\omega$."

# Chapter 3

# THE THESIS UNFORMATTED

This chapter describes the uwthesis class (`uwthesis.cls`, version dated 2008/04/15) in detail and shows how it was used to format the thesis. A working knowledge of Lamport's LaTeX manual[7] is assumed.

## *3.1 The Control File*

The source to this sample thesis is contained in a single file only because ease of distribution was a concern. You should not do this. Your task will be much easier if you break your thesis into several files: a file for the preliminary pages, a file for each chapter, one for the glossary, and one for each appendix. Then use a control file to tie them all together. This way you can edit and format parts of your thesis much more efficiently.

Figure 3.1 shows a control file that might have produced this thesis. It sets the document style, with options and parameters, and formats the various parts of the thesis—but contains no text of its own.

The first section, from the `\documentclass` to the `\begin\{document\}`, defines the document class and options. This thesis has specified two-sided formatting, which is now allowed by the Graduate School. Two sided printing is now actually LaTeX's default. If you want one sided printing you must specify `oneside`. This sample also specified a font size of 11 points. Possible font size options are: `10pt`, `11pt`, and `12pt`. Default is 12 points, which is the preference of the Graduate School. If you choose a smaller size be sure to check with the Graduate School for acceptability. The smaller fonts can produce very small sub and superscripts.

Include most additional formatting packages with `\usepackage`, as describe by Lamport[7]. The one exception to this rule is the `natbib` package. Include it with the `natbib` document option.

Use the `\includeonly` command to format only a part of your thesis. See Lamport[7, sec. 4.4] for usage and limitations.

## *3.2 The Text Pages*

A chapter is a major division of the thesis. Each chapter begins on a new page and has a Table of Contents entry.

### *3.2.1 Chapters, Sections, Subsections, and Appendices*

Within the chapter title use a `\\` control sequence to separate lines in the printed title (recall Figure 2.1.). The `\\` does not affect the Table of Contents entry.

Format appendices just like chapters. The control sequence `\appendix` instructs LaTeX to begin using the term 'Appendix' rather than 'Chapter'.

Sections and subsections of a chapter are specified by `\section` and `\subsection`, respectively. In this thesis chapter and section titles are written to the table of contents. Consult Lamport[7, pg. 176] to see which subdivisions of the thesis can be written to the table of contents. The `\\` control sequence is not permitted in section and subsection titles.

### *3.2.2 Footnotes*

Footnotes format as described in the LaTeX book. You can also ask for end-of-chapter or end-of-thesis notes. The thesis class will automatically set these up if you ask for the document class option `chapternotes` or `endnotes`.

If selected, chapternotes will print automatically. If you choose endnotes however you must explicitly indicate when to print the notes with the command `\printendnotes`. See the style guide for suitable endnote placement.

### *3.2.3 Figures and Tables*

Standard LaTeX figures and tables, see Lamport[7, sec. C.9], normally provide the most convenient means to position the figure. Full page floats and facing captions are exceptions to this rule.

Figure 3.1: A thesis control file (`thesis.tex`). This file is the input to LaTeX that will produce a thesis. It contains no text, only commands which direct the formatting of the thesis. This is also an example of a 'facing page' caption. It is guaranteed to appear on a lefthand page, facing the figure contents on the right. See the text.

```
% LaTeX thesis control file

\documentclass[11pt,twoside]{uwthesis}

\begin{document}

% preliminary pages
%
\prelimpages
\include{prelim}

% text pages
%
\textpages
\include{chap1}
\include{chap2}
\include{chap3}
\include{chap4}

% bibliography
%
\bibliographystyle{plain}
\bibliography{thesis}

% appendices
%
\appendix
\include{appxa}
\include{appxb}

\include{vita}
\end{document}
```

```
\begin{figure}[p]% the left side caption
  \begin{leftfullpage}
    \caption{ . . . }
  \end{leftfullpage}
\end{figure}
\begin{figure}[p]% the right side space
  \begin{fullpage}
     . . .
     ( note.. no caption here )
  \end{fullpage}
\end{figure}
```

Figure 3.2a: This text would create a double page figure in the two-side style.

If you want a figure or table to occupy a full page enclose the contents in a `fullpage` environment. See figures 3.2.

Facing page captions are described in the Style Manual[11]. They have different meanings depending on whether you are using the one-side or two-side thesis style.

If you are using the two-side style, facing captions are full page captions for full page figures or tables and must face the illustration to which they refer. You must explicitly format both pages. The caption part must appear on an even page (left side) and the figure or table must come on the following odd page (right side). Enclose the float contents for the caption in a `leftfullpage` environment, and enclose the float contents for the figure or table in a `fullpage` environment. Figure 3.1, for example, required a full page so its caption (on a facing caption page) would have been formatted as shown in figure 3.2a. The first page (left side) contains the caption. The second page (right side) could be left blank. A picture or graph might be pasted onto this space.

If instead you are using the one-side style, facing caption pages are still captions for full page figures or tables that appear on the left-hand page (facing the illustration on the right-hand page). However, the page number and binding offset are reversed from their normal positions. Format these captions by enclosing the float contents in a `leftfullpage`

```
\begin{figure}[p]
   \begin{leftfullpage}
      \caption{ . . . }
   \end{leftfullpage}
\end{figure}
\begin{figure}[p]% the right side space
  \begin{xtrafullpage}
     . . .
     ( note.. no caption here )
  \end{xtrafullpage}
\end{figure}
```

Figure 3.2b: This text would create a facing caption page with the accompaning figure in the one-side style.

environment. Because you are printing on only one side of each sheet, you must manually turn over this caption sheet. You then have the choice of inserting a preprinted illustration or formatting one to print with the thesis. In either case no page number should appear on the illustration page, nor should the page number increment. Enclose your figure's text in an `xtrafullpage` environment, which will cause the page numbers to come out right. You can, of course, leave out the illustration and insert a preprinted copy later. Figure 3.2b shows how to format a facing caption page in the one-side style. Note that, in this case, the illustration was also printed.

In the two-side style the `xtrafullpage` environment acts just like the `fullpage` environment. It does not produce a numberless page.

### *3.2.4 Horizontal Figures and Tables*

Figures and tables may be formatted horizontally (a.k.a. landscape) as long as their captions appear horizontal also. LaTeX will format landscape material for you if a couple of conditions are met. You have to have a printer and printer driver that allow rotations and you have to have a couple of add-on LaTeX packages.

Include the `rotating` package

```
\begin{sidewaystable}
    ...
    \caption{ . . . }
\end{sidewaystable}
```

Figure 3.3: This text would create a landscape table with caption.

```
\usepackage[figuresright]{rotating}
```

and read the documentation that comes with the package.

Figure 3.3 is an example of how a landscape table might be formatted.

### *3.2.5 Figure and Table Captions*

Most captions are formatted with the `\caption` macro as described by Lamport[7, sec. C.9]. The uwthesis class extends this macro to allow continued figures and tables, and to provide multiple figures and tables with the same number, e.g., 3.1a, 3.1b, etc.

To format the caption for the first part of a figure or table that cannot fit onto a single page use the standard form:

```
\caption[toc]{text}
```

To format the caption for the subsequent parts of the figure or table use this caption:

```
\caption(-){(continued)}
```

It will keep the same number and the text of the caption will be *(continued)*.

To format the caption for the first part of a multi-part figure or table use the format:

```
\caption(a)[toc]{text}
```

The figure or table will be lettered (with 'a') as well as numbered. To format the caption for the subsequent parts of the multi-part figure or table use the format:

```
\caption(x){text}
```

where *x* is `b`, `c`, .... The parts will be lettered (with 'b', 'c', ...).

## *3.3 The Preliminary Pages*

These are easy to format only because they are relatively invariant among theses. Therefore the difficulties have already been encountered and overcome by LaTeX and the thesis document classes.

### *3.3.1 Title page*

Define `\Title`, `\Author`, `\Program`, and `\Year` and then print the title page with `\titlepage`. The title page of this thesis was printed with[1]

```
\Title{The Suitability of the \LaTeX\ Text Formatter\\
   for Thesis Preparation by Technical and\\
   Non-technical Degree Candidates}
\Author{Jim Fox}
\Program{UW Technology Services}
\Year{1999}
\titlepage
```

You may also change other text on the title page with these macros. You will have to redefine `\Degreetext`, for instance, if you're writing a Master's thesis instead of a dissertation.

`\Degree{`*degree name*`}` defaults to "Doctor of Philosophy"

`\School{`*school name*`}` defaults to "University of Washington"

`\Degreetext{`*degree text*`}` defaults to "A dissertation submitted . . . "

These definitions must appear before the `\titlepage` command.

[1] Actually, it wasn't. It included a footnote—unusual for title pages.

### *3.3.2 Signature page*

Define `\Chair` and as many `\Signature` lines as you need and then print the signature page with `\signaturepage`. The signature page of this thesis was printed with

```
\Chair{Name of Chairperson}{title}{Chair's department}

\Signature{Name of Committee member}
\Signature{Name of Committee member}
\Signature{etc}
\signaturepage
```

You have to put in the real names. Notice the definition of `\Chair` has three arguments. The second (Chair's title) and third (Chair's department) will be used on the Abstract page.

If you have co-chairs just repeat the `\Chair` definition.

For a Master's Thesis omit the `\Chair` definitions and use `\thesissignaturepage`.

### *3.3.3 Quote slip*

Use one of the "quoteslip" macros to format your quote slip:

- `\thesisquoteslip`, for a master's thesis;
- `\doctoralquoteslip`, for a doctoral dissertation; or
- `\doctoralabstractquoteslip`, for a the 'abstract only' form of the doctoral dissertation.

None of these macros takes an argument. They use the text suggested by the Graduate School[11].

If you need nonstandard quote slip text use the `\quoteslip` macro instead. It has one argument, which is the text of your quote slip. The quote slip of this thesis was printed with

```
\quoteslip{Extensive copying . . . may be found.}
```

### *3.3.4 Abstract*

Print the abstract with `\abstract`. It has one argument, which is the text of the abstract. All the names have already been defined. The abstract of this thesis was printed with

```
\abstract{This sample . . . ‘real’ dissertation.}
```

### *3.3.5 Tables of contents*

Use the standard LaTeX commands to format these items.

### *3.3.6 Acknowledgments*

Use the `\acknowledgments` macro to format the acknowledgments page. It has one argument, which is the text of the acknowledgment. The acknowledgments of this thesis was printed with

```
\acknowledgments{The author wishes . . . {\it il miglior fabbro}.\par}}
```

### *3.3.7 Dedication*

Use the `\dedication` macro to format the dedication page. It has one argument, which is the text of the dedication.

### *3.3.8 Vita*

Use the `\vita` macro to format the curriculum vitae. It has one argument, which chronicles your life's accomplishments.

Note that the Vita is not really a preliminary page. It appears at the end of your thesis, just after the appendices.

Chapter 4

# HARDWARE DEPENDENCIES
(*AND OTHER COMPLICATIONS*)

TEX has been designed to produce exactly the same document on all computers and on all printers. *Exactly the same* means that the various spacings, line and page breaks, and even hyphenations will occur at the same places when the document is formatted on a variety of computers. However, there are some discrepancies that cannot be overcome. They involve the mechanics of running TEX and the necessary variations in computer and output device capability.

## *4.1 Running LATEX*

Each operating system has some means for editing and storing text, starting programs, and printing program output. These are uniformly inconsistant between machines. Therefore there are no useful, generic instructions for running LATEX. You will have to be able to do the following on your chosen computer.

- Create, edit, and back-up text files.
- Run the TEX program with LATEX format.
- Convert the device independent output to a format suitable to the selected printer.
- Print the converted file.

There are generally user's manuals available for each TEX implementation, which explain the program's local procedures and nuances.

### *4.2 Fonts*

Different printers, and different sites with identical printers, make certain sets of fonts available for their users. While these font sets are not identical, they do have a common subset—the basic roman fonts. Most sites will also provide fonts at standard magnifications (`\small`, `\large`, `\Large`, etc.). The Graduate School wants a larger type than is normally used for book printing. The uwthesis document class uses 11-point.

The postscript font New Century Schoolbook also prints a nice thesis. Request it with:

```
\usepackage{newcent}
```

### *4.3 Printer Perversity*

*Never let anything mechanical know you are depending on it.*

A printer will break the day before a dissertation is due. This is an immutable law of nature. Print your dissertation well in advance of any deadlines. Take some time to admire your work.

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[11] Graduate School University of Washington. Style and policy manual for theses and dissertations, 2005.

# Appendix A

## WHERE TO FIND THE FILES

The uwthesis class file, `uwthesis.cls`, contains the parameter settings, macro definitions, and other TEXnical commands which allow LATEX to format a thesis. The source to the document you are reading, `uwthesis.tex`, contains many formatting examples which you may find useful. The bibliography database, `uwthesis.bib`, contains instructions to BibTeX to create and format the bibliography. You can find the latest of these files in the following locations:

- CTAN

  `http://tug.ctan.org/tex-archive/macros/latex/contrib/uwthesis/`

- My page.

  `http://staff.washington.edu/fox/tex/uwthesis.html`

## VITA

Jim Fox is a Senior Software Engineer at the University of Washington. His duties do not include maintaining this package. It is rather an avocation which he maintains as he deems fit.

He welcomes your comments to `fox@washington.edu`.