Candidate Number: 1234X

The Approved Title of Your Dissertation Spanning Two Lines

Abstract

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Word Count: XXXX

1   Introduction

1.1   Overview of the files

This document consists of the following files:

- `makefile` — The makefile for the dissertation

- `diss.tex` — The dissertation

- `figs` — A directory containing diagrams and pictures

- `refs.bib` — The bibliography database

1.2   Building the document

This document was produced using LaTeX2_ε which is based upon LaTeX (Lamport, 1986). To build the document you first need to generate `diss.aux` which, amongst other things, contains the references used. This is done by executing the command:

```
pdflatex diss
```

Then the bibliography can be generated from `refs.bib` using:

```
bibtex diss
```

Finally, to ensure all the page numbering is correct run `pdflatex` on `diss.tex` until the `.aux` files do not change. This usually takes 2 more runs.

1.2.1   The makefile

To simplify the calls to `pdflatex` and `bibtex`, a makefile has been provided. It provides the following facilities:

`make`

    Display help information.

`make diss.pdf`

    Format the dissertation document as a PDF.

`make all`

    Alias for `make diss.pdf` (format the dissertation document as a PDF).

```
make count
```
> Display an estimate of the word count.

```
make clean
```
> Delete all intermediate files except the source files and the resulting PDFs. All these deleted files can be reconstructed by typing `make all`.

```
make distclean
```
> Delete all files, including the resulting PDFs, except the source files. All these deleted files can be reconstructed by typing `make all`.

1.3 Counting words

An approximate word count of the body of the dissertation may be obtained using:

```
wc diss.tex
```

Alternatively, try something like:

```
detex diss.tex | tr -cd '0-9A-Z a-z\n' | wc -w
```

1.4 Figures

If you wish to include a plot or other image, you can render it as shown for Figure 1. You may use colour figures. However, it is best for the figure captions and the paper body to be legible if the paper is printed in either black/white or in colour.

Figure 1: Sample figure caption

Simple diagrams can be written directly in LaTeX. For example, see Figure 2 on page 3 and see Figure 3 on page 3.
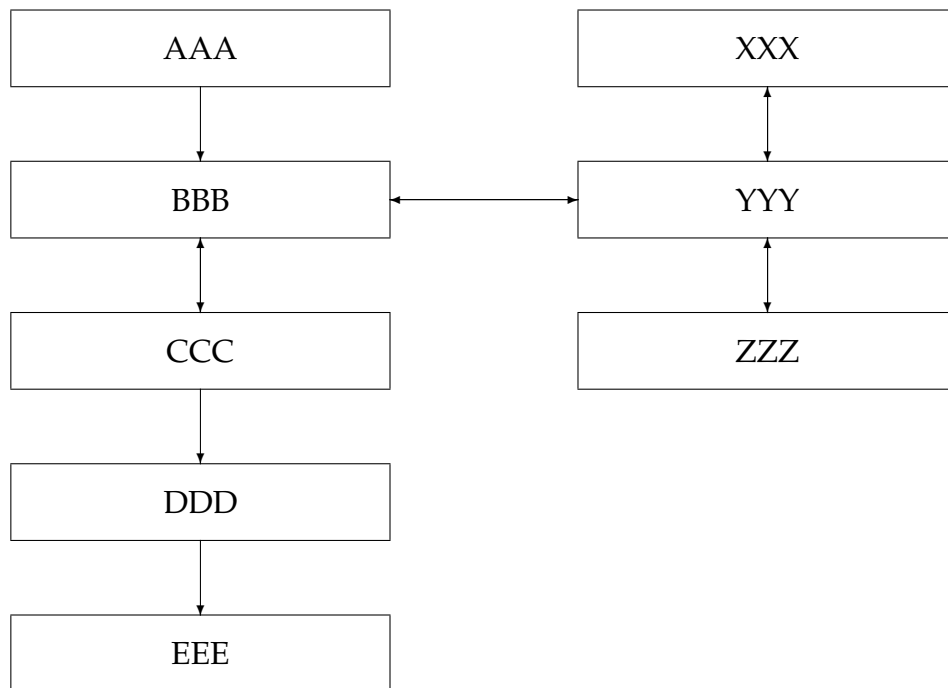
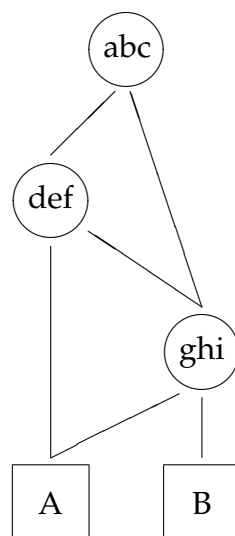Figure 2: A picture composed of boxes and vectors

Figure 3: A diagram composed of circles, lines and boxes

1.5   Tables

Here is a simple example of a table. Note that publication-quality tables *do not contain vertical rules*. I strongly suggest the use of the `booktabs` package, which allows for typesetting high-quality, professional tables:

https://www.ctan.org/pkg/booktabs

This package was used to typeset Table 1. There is another example table (Table 2) in Section 1.7.

A Multi-Column Cell		
Left Justified	Centred	Right Justified
First	A	XXX
Second	AA	XX
Last	AAA	X

Table 1: Sample table caption

1.6   Footnotes

Here is a simple example[1] of a footnote. Footnotes should be used sparingly. Note that footnotes are properly typeset *after* punctuation marks.[2] Footnotes *are* included in the word count.

1.7   Citations

This template uses the APA citation format. Citations within the text appear in parentheses as (Chang, 2014) or, if the author's name appears in the text itself, as Chang (2014). Append lowercase letters to the year in cases of ambiguities. Treat double authors as in (Mankiw & Taylor, 2014), but write as in (Floud et al., 2014) when more than two authors are involved (the `\shortcites{key}` command is required only for the first time you cite `key`). Collapse multiple citations as in (Floud et al., 2014; Mankiw & Taylor, 2014). Refrain from using full citations as sentence constituents. Instead of "(Chang, 2014) showed that ...", write "Chang (2014) showed that ...". Your reference list is *not* included in the word count.

---

[1] A footnote.

[2] As in this example.

Table 2 shows the supported citation syntax. You are encouraged to use the `natbib` styles. You can use the command `\citep` (cite in parentheses) to get "(author, year)" citations as in (Chang, 2014). You can use the command `\citet` (cite in text) to get "author (year)" citations as in Chang (2014). You can use the command `\citealp` (alternative cite without parentheses) to get "author, year" citations (which is useful for using citations within parentheses, as in Chang, 2014).

Command	Output	Description
`\citep`	(Chang, 2014)	Parenthetical citation
`\citet`	Chang (2014)	Text citation
`\citealp`	Chang, 2014	Parenthetical citation without parentheses
`\citealt`	Chang 2014	Text citation without parentheses
`\citeauthor`	Chang	Author only (text citation)
`\citeyear`	2014	Year only (no parentheses)
`\citeyearpar`	(2014)	Year citation (with parentheses)

Table 2: The `natbib` citation commands

1.8   Further information

See the LaTeX notes at

> `https://www.cl.cam.ac.uk/teaching/current-1/TeX+MATLAB/materials.html`

See also the Unix Tools notes at

> `https://www.cl.cam.ac.uk/teaching/current-1/UnixTools/materials.html`

1.9   Acknowledgements

This template is built for my beloved girlfriend, Jing Zeng, for her Economics Tripos Part IIB dissertation in 2022. It is based on the Computer Science Tripos Part II dissertation template by Martin Richards (2015), which was built upon an earlier version by Simon Moore (1995).

2 Literature Review

3 Theoretical Framework

4 Data

5 Methodology

6 Results

7 Conclusion

I hope that this rough guide to writing a dissertation is LaTeX has been helpful and saved you time.

References

Chang, H.-J. (2014). *Economics: The user's guide*. Penguin.

Floud, R., Humphries, J., & Johnson, P. (2014). *The Cambridge economic history of modern Britain*. Cambridge University Press.

Lamport, L. (1986). *LaTeX—a document preparation system—user's guide and reference manual*. Addison-Wesley.

Mankiw, N. G., & Taylor, M. P. (2014). *Macroeconomics* (European ed.). Worth Publishers.

Moore, S. (1995). *How to prepare a dissertation in LaTeX.*

Richards, M. (2015). *How to write a dissertation in LaTeX.*

A   Appendices

Appendices *are* included in the word count.