Your School

Thesis Title

Author Name
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This thesis is presented for the Degree of
Doctor of Philosophy
of
Curtin University

September 11, 2022

Declaration

To the best of my knowledge and belief this thesis contains no material previously published by any other person except where due acknowledgement has been made.

This thesis contains no material that has been accepted for the award of any other degree or diploma in any university.

Author Name

September 11, 2022

Abstract

Abstract text goes here - edit the file frontmatter/acknowledgements.tex

Resumen

Second abstract text goes here (e.g. to have an abstract in a second language) - edit the file frontmatter/second-abstract.tex

Disable the second abstract by commenting out the relevant lines in the FRONTMATTER section of index.Rmd

Acknowledgements

Acknowledgements text goes here - edit the file frontmatter/acknowledgements.tex

Acknowledgement of Country

We acknowledge that Curtin University works across hundreds of traditional lands and custodial groups in Australia, and with First Nations people around the globe. We wish to pay our deepest respects to their ancestors and members of their communities, past, present, and to their emerging leaders. Our passion and commitment to work with all Australians and peoples from across the world, including our First Nations peoples are at the core of the work we do, reflective of our institutions' values and commitment to our role as leaders in the Reconciliation space in Australia.

List of Publications

List of publications goes here - edit the file frontmatter/list-of-publications.tex

Conference Presentations

List of conferences goes here - edit the file frontmatter/list-of-conferences.tex

Statement of Contribution of Others

Contribution of others text goes here - edit the file frontmatter/statement-of-contributions.tex

Signature of candidate: _____

Signature of supervisor: _____

Contents

List of Abbreviations

1-D, 2-D One- or two-dimensional, referring **in this thesis** to spatial dimensions in an image.

Otter One of the finest of water mammals.

Hedgehog Quite a nice prickly friend.

Chapter 1

Introduction

Welcome to `oxforddown` (Lyngs, 2019), a thesis template for R Markdown that I created when writing my own PhD thesis at the University of Oxford. This template allows you to write in R Markdown, while formatting the PDF output with the beautiful and time-tested OxThesis LaTeX template. The sample content is partly adapted from `thesisdown` .

Hopefully, writing your thesis in R Markdown will provide a nicer interface to the OxThesis template if you haven't used TeX or LaTeX before. More importantly, *R Markdown* allows you to embed chunks of code within your thesis and generate plots and tables directly from the underlying data, avoiding copy-paste steps. This gets you into the habit of doing reproducible research, which will benefit you long-term as a researcher, and also help anyone that is trying to reproduce or build upon your results down the road.

Why use it?

R Markdown creates a simple and straightforward way to interface with the beauty of LaTeX. Packages have been written in **R** to work directly with LaTeX to produce nicely formatting tables and paragraphs. In addition to creating a user friendly interface to LaTeX, *R Markdown* allows you to read in your data, analyze it and to visualize it using **R**, **Python** or other languages, and provide documentation and commentary on the results of your project.

Further, it allows for results of code output to be passed inline to the commentary
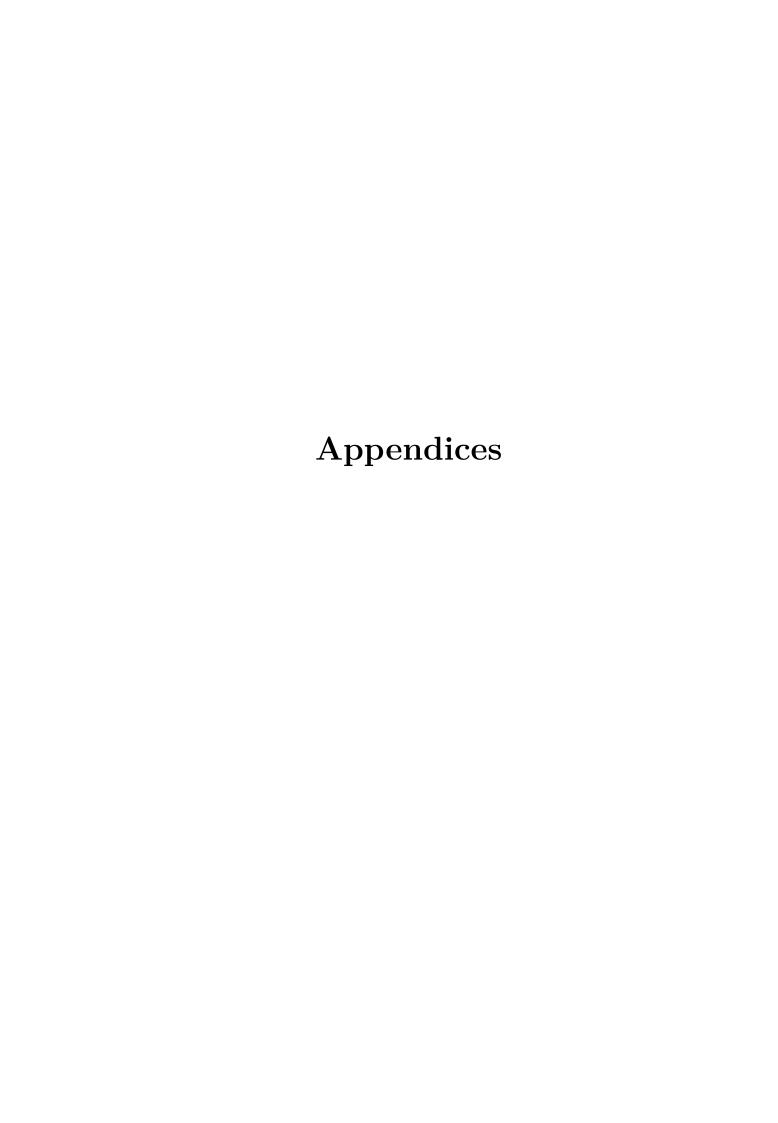
of your results. You'll see more on this later, focusing on **R**. If you are more into **Python** or something else, you can still use *R Markdown* - see 'Other language engines' in Yihui Xie's *R Markdown: The Definitive Guide*.

Using LaTeX together with *Markdown* is more consistent than the output of a word processor, much less prone to corruption or crashing, and the resulting file is smaller than a Word file. While you may never have had problems using Word in the past, your thesis is likely going to be about twice as large and complex as anything you've written before, taxing Word's capabilities.

Who should use it?

Anyone who needs to use data analysis, math, tables, a lot of figures, complex cross-references, or who just cares about reproducibility in research can benefit from using *R Markdown*. If you are working in 'softer' fields, the user-friendly nature of the *Markdown* syntax and its ability to keep track of and easily include figures, automatically generate a table of contents, index, references, table of figures, etc. should still make it of great benefit to your thesis project.

Appendices

Appendix A

The First Appendix

This first appendix includes an R chunk that was hidden in the document (using `echo = FALSE`) to help with readibility:

In 02-rmd-basics-code.Rmd

And here's another one from the same chapter, i.e. Chapter ??:

Appendix B

The Second Appendix, for Fun

Lyngs, U. (2019). Oxforddown: An oxford university thesis template for r mark-
down. In *GitHub repository*. https://github.com/ulyngs/oxforddown;
GitHub. https://doi.org/10.5281/zenodo.3484682

Bibliography