



Master's thesis
Master's Programme in Data Science

Template for Master's thesis

Firstname Lastname

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Contents

1. Introduction

The thesis should have an introduction chapter. Other chapters can be named according to the topic. In the end, some summary chapter is needed; see Chapter ?? for an example.

2. Figures and Tables

2.1 Figures

Figure ?? gives an example how to add figures to the document. Remember always to cite the figure in the main text. There are many ways to cite, for example: University of Helsinki has a nice logo (see Fig. ??).



Figure 2.1: University of Helsinki flame-logo for Faculty of Science.

2.2 Tables

Table ?? gives an example how to report experimental results. Remember always to cite the table in the main text. There are many ways to cite, for example: The results are as expected (see Table ??).

Table 2.1: Experimental results.

Koe	1	2	3
A	2.5	4.7	-11
B	8.0	-3.7	12.6
$A + B$	10.5	1.0	1.6

3. Citations

3.1 Citations to literature

References are listed in a separate .bib-file. In this case it is named `bibliography.bib` with the following content:

```
@article{einstein,
  author =      "Albert Einstein",
  title =      "{Zur Elektrodynamik bewegter K{\\"o}rper}. ({German})
    [{On} the electrodynamics of moving bodies]",
  journal =     "Annalen der Physik",
  volume =     "322",
  number =     "10",
  pages =      "891--921",
  year =       "1905",
  DOI =        "http://dx.doi.org/10.1002/andp.19053221004"
}

@book{latexcompanion,
  author      = "Michel Goossens and Frank Mittelbach and Alexander Samarin",
  title       = "The \LaTeX\ Companion",
  year        = "1993",
  publisher   = "Addison-Wesley",
  address     = "Reading, Massachusetts"
}

@misc{knuthwebsite,
  author      = "Donald Knuth",
  title       = "Knuth: Computers and Typesetting",
  url         = "http://www-cs-faculty.stanford.edu/%7Eknuth/abcde.html"
}
```

In the last reference url field the code %7E will translate into ~ once clicked in the final pdf.

References are created using command `\cite{einstein}`, showing as [?]. Other examples: [?, ?].

Citations should be arranged in alphabetical order by author, using the default style `abbrv`.

3.2 Crossreferences

Appendix ?? on page ?? contains a code example.

4. From tex to pdf

In Linux, run `pdflatex filename.tex` and `bibtex filename` repeatedly until no more warnings are shown. You should use `pdflatex` when compiling your document.

5. Conclusions

It is good to conclude with some insightful discussion.

Appendix A. Code example

Program code can be added as appendix:

```
#!/bin/bash  
text="Hello World!"  
echo $text
```