Manual to the LaTeX Doctoral and Licentiate Thesis Template for the University of Skövde

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1 Introduction

This manual explains the basic usage of the LaTeX Template for Doctoral Theses written and published at the University of Skövde. The template has been approved by RUFIT for official use.

This manual will not explain the general usage of TeX or LuaLaTeX; there are other materials available online. This manual assumes that you have a working installation of a full TeX distribution TeXLive available and you know how to perform steps like compiling TeX code into PDF files or installing and using packages (styles or classes).

2 Getting Started

Getting start with this LaTeX follows a steep learning curve. It will definitively help to have some experience with this software, but if not, there is plenty of information available on the Internet. The Wikibooks page on LaTeX (`https://en.wikibooks.org/wiki/LaTeX`) is a good start.

Assuming you got this LaTeX template as an archive containing numerous files, get started by creating a new directory where you will write your thesis in; unzip the archive's content into this directory. There are a number of example files, foremost `example-thesis.tex` which you should try to open in your favorite LaTeX editor and compile into a PDF file. If you are familiar with the `make` tool, you may make use of the provided `Makefile`.

Do not proceed unless you succeed with the compilation. If you get any error messages, try to search on the Internet for help first. If that does not help, please contact your nearest LaTeX expert.

3 Basic Usage

It is recommended to start from the provided example files.

3.1 Metadata like Author, Title, or Publication Type

As metadata like the author's name (your name?), title, or publication type are used in several documents (the thesis document, the cover page, ...), the definition of this data is made separately in a file called `metadata.tex`.

It is recommended that you start from the provided example and set the values according to your thesis. An abbreviated example (missing some fields) looks like this:

```
\title{Some Interesting Title}
\subject{Informatics}
\date{1970}{1}{1}
\isbn{979-123-456-789}
\printshop{L{\"u}genpresse, Leipzig}
\seriesnumber{42}
\author{Hein Blöd}
\dissertationtype{filosofie doktorsexamen}
\dissertationarea{informationsteknologi}
\publicationtype{dissertation}
```

Commands used in `metadata.tex` are defined in package `hismetadata`. Once this package is loaded, the metadata can be included into your document by issuing `\input{metadata}`. The provided example files already make use of this package.

The difference between `\dissertationtype` and `\publicationtype` is as follows:

`\dissertationtype` is a human-readable label, used for example on the title page. It may be an arbitrary text in English or Swedish such as `filosofie doktorsexamen`.

`\publicationtype` may only be either `dissertation`, `licentiate`, `thesisproposal`, or `researchproposal`. It is used internally by the template to control various formatting parameters where the types of publications differ (e. g. colors).

The command `\seriesnumber` is the designated number of this dissertation/licentiate thesis in the University of Skövde's own dissertation series. Please contact the librarian in charge for further information.

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3.2 Language

This thesis template supports both English and Swedish texts. You have to set your thesis language as an option for the `\documentclass` command. For English texts, use the option `english`, for Swedish texts, use `swedish`. The American English variant is used, other flavors such as British English (`british`) are not supported.

```
\documentclass[english]{his-thesis}
```

This option affects the Babel[1] package, which controls among others how words get hyphenated. Irrespective if you provide `english` or `swedish` as the class option, **both** languages will be loaded for Babel. The language you specified as a class option, however, will be used as the default language. You can switch between both language at any time using Babel's `\selectlanguage` command.

Selecting a language as class option will affect certain labels. For example, the table of contents will get the caption 'Innehåll' instead of the English variant 'Contents'. Please observe that the translation from English to Swedish is incomplete.

4 Bibliography

The template provides you with the basic tools and settings to integrate BibTEX databases into your thesis. You have to load at least the package `hisbibliography` as demonstrated in the example thesis document.

To make use of BibTEX files, you can load them using the `\addbibresource` command. One command invocation is necessary for every BibTEX file.

```
\addbibresource{myownpublications.bib}
\addbibresource{otherpublications.bib}
```

4.1 Customization

From the BibLaTeX documentation: 'Recurring author and editor names are replaced by a dash unless the entry is the first one on the current page or double-page spread.' To disable the usage of dashes, edit in file `hisbibliography.sty` the line containing `\RequirePackage[...]{biblatex}` and add `dashed=false` as a new option into the comma-separated list of options within the square brackets.

[1] `http://ctan.org/pkg/babel`

5 Previously Published Articles

In case a section containing pages from previously published articles is to be included, use the environment `fullarticles` and inside this environment use the command `\fullarticle` as exemplified below:

```
\begin{fullarticles}
\fullarticle{bibtexkey1}{path/to/pdffile}
\fullarticle[scale=.75,trim={1cm 1cm 1cm 2cm},
  clip=true,pages=-]{bibtexkey2}{path/to/
  anotherpdffile}
\end{fullarticles}
```

The optional argument for `\fullarticle` as used for the second article in above example contains arguments that will be passed to the command `\includepdf`, which allows among others to

- select a range of pages from the PDF file to be included (use `pages=-` to select and show all pages), and to
- scale, trim, and clip the PDF document's pages to fit into your dissertation.

If this optional argument is omitted, `pages=-` is used as default. Setting options, but omitting a `pages` value will include only the PDF file's first page. See the documentation for the package pdfpages[2] for details and more examples.

Note: to avoid problems when generating the 'final' version of the thesis, `scale` options should go before `trim` options as seen in above example.
Tip: To figure out the right scaling and trimming of the included papers, use `\includepdf`'s `frame=true` option. For the final version, you may replace it with `clip=true`.

The environment `fullarticles` will create a new entry to the table of contents labeled 'Previously Published Articles'. To change this label, provide an alternative label as an optional argument:

```
\begin{fullarticles}[My Publications]
```

Each `\fullarticle` will create an entry to the table of contents as well (below the entry created by the environment), using the title from the bibliography entry referred to in the first mandatory argument passed to the command. This way, the same title is automatically reused from your existing bibliography

Used articles will appear in the automatically generated bibliography.

[2] `http://ctan.org/pkg/pdfpages`

6 Printing a Draft: Two Pages on One

To print a draft, such as for proof-reading, the class `hisdraftforprinting` is provided. It will put two pages of the dissertation next to each other, i. e. when printing in duplex mode, four pages of the dissertation will be printed on one sheet of paper. The current date and time, your name as specified in the meta data, and a warning that this print is a draft will be printed on the paper as well.

To create a draft, simply create a new LaTeX document that looks like this, simply replacing the path to the PDF document to be used for the draft print:

```
\documentclass{hisdraftforprinting}

% The file 'metadata.tex' contains the user's
% metadata such as title, name, ISBN, ...
\input{metadata}

\begin{document}
\dissertationpdf{path/to/thesis-pdf-file}
\end{document}
```

The text that this print is a draft only can be configured by an optional argument passed to the `\dissertationpdf` command:

```
\dissertationpdf[CONTAINS UNPUBLISHED MATERIAL
  ]{path/to/thesis-pdf-file}
```