

PhD-thesis

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Document layout

Abstract

This chapter describes the document layout, including the compilation instructions.

Keywords: L^AT_EX; class; article

1.1 Preamble

1.1.1 Introduction

By default most of the standard L^AT_EX-packages are loaded. Any of these packages can be reloaded, with other defaults, without problems. In addition the title and author can be specified; see below.

1.1.2 Load class

To load the class use

```
\documentclass{goose-thesis}
```

To use customized fonts, the documents have to be compiled using XeLaTeX. For example:

```
%!TEX program = XeLaTeX
\documentclass[garamond]{goose-thesis}
```

The following fonts are available:

- garamond
- times
- verdana

Furthermore the following options are available

- **narrow**: widen the margins of the page, useful during the review process;
- **doublespacing**: set the line spacing to double, useful during the review process.
- **namecite**: use names instead of number of citations.
- **sectionbib**: include the bibliography at the end of each chapter.

1.1.3 Title and author

- The *title* is specified using

```
\title{...}
```

- The *author* is specified using

```
\author{...}
```

- Additionally one could decide to change the author of the PDF document

```
\hypersetup{pdfauthor={...}}
```

1.2 Main text

In the simplest form the thesis will have one bibliography at the end of the documents. It is also possible to include a bibliography at the end of each chapter, see Section 1.3.

1.2.1 Structure

The thesis comprises a main T_EX-files and T_EX-files for each chapter. Furthermore a **Makefile** can be used to gather the compilation instructions. The suggested structure is as follows

```
main.tex
example_chapter1.tex
example_chapter2.tex
...
library.bib
figures/
```

1.2.2 Main document

The layout is as follows

```
\documentclass[options]{goose-thesis}

\title{...}

\author{...}

...

\begin{document}

  \maketitle

  \setcounter{tocdepth}{0}
  \tableofcontents

  \cleardoublepage
  \include{example_chapter1}

  \cleardoublepage
  \include{example_chapter2}

  ...

  \bibliography{...}

\end{document}
```

Herein the chapters have been included as separate files. Notice that there is a single `\bibliography{...}` entry at the end of the main document. None of the chapters (in the `\include{...}` command) will have such an entry.

1.2.3 Chapters

The layout is as follows

```
\begin{chapter}

\begin{frontmatter}

\begin{abstract}
...
\end{abstract}

\keywords{...}

\begin{remark}
...
\end{remark}

\end{frontmatter}

...
```

```
\appendix
...

```

Notice how each of the chapters has its own appendix.

1.2.4 Compilation

The compilation can be done by compiling the main file just like any other file.

1.3 Main text – multiple bibliographies

1.3.1 Structure

The thesis comprises a main \TeX -files and \TeX -files for each chapter. Furthermore a `Makefile` can be used to gather the compilation instructions. The suggested structure is as follows

```
main.tex
example_chapter1.tex
example_chapter2.tex
...
library.bib
figures/

```

1.3.2 Main document

The layout is as follows

```
\documentclass[sectionbib,...]{goose-thesis}

\title{...}

\author{...}

...

\begin{document}

  \maketitle

  \setcounter{tocdepth}{0}
  \tableofcontents

  \cleardoublepage
  \include{example_chapter1}

  \cleardoublepage
  \include{example_chapter2}

  ...

\end{document}

```

Notice that in this case the main file does not have a `\bibliography{...}` command. Rather, each of the chapter contains this command (unless, of course, there are no citations in that chapter). Also notice that the `sectionbib` option has been used.

1.3.3 Chapters

The layout is as follows


```

\begin{chapter}

\begin{frontmatter}

\begin{abstract}
...
\end{abstract}

\keywords{...}

\begin{remark}
...
\end{remark}

\end{frontmatter}

...

\bibliography{...}

\appendix

...

```

Notice the `\bibliography{...}` command at the end of the chapter.

1.3.4 Compilation

In this case the compilation is a bit more involved, as several bibliographies have to be created. For this example the steps are included in the following **Makefile**:

```

all:
    xelatex -interaction=nonstopmode example.tex
    xelatex -interaction=nonstopmode example.tex
    bibtex example_chapter1
    bibtex example_chapter2
    xelatex -interaction=nonstopmode example.tex
    xelatex -interaction=nonstopmode example.tex

clean:
    rm *.aux *.bbl *.log *.out *.pdf *.toc *.blg *.fls *.fdb_latexmk

```

1.4 Citations

Citations and references are handled using **natbib**. To cite use

```

\citep{...} (or \cite{...})
\citett{...}

```

The former only inserted a citation as number. For example [1]. The latter also includes the name(s) of the author(s). For example de Geus [1], world [2].

The bibliography information is stored in a **bib**-file, which is included using

```

\bibliography{...}

```

This command creates a chapter section “References” with the bibliography. By default number citations are used, in which the references appear in the order in which they were cited. In the case that the **namecite** option is used, the citations appear in names in alphabetical order.

Note that a large part of the formatting of Bib_T_EX depends on the formatting of the `bib`-file. A Python-script `bibparse` is available to automatically clean-up the formatting of the `bib`-file. An updated `unsrtnat.bst` is available that includes the `eprint` field.

References

- [1] T. W. J. de Geus. Personal website, 2016. URL <http://www.geus.me>.
- [2] The world. Wikipedia. URL <http://www.wikipedia.org>.

1.A Some appendix

Another chapter

Abstract

This is another chapter.

2.1 With a section

And a citation [1].

References

[1] The world. Wikipedia. URL <http://www.wikipedia.org>.

2.A And an appendix