## The gsemthesis class\*

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#### Abstract

This article introduces the <code>gsemthesis</code> class for LaTeX. The <code>gsemthesis</code> class is a Phd thesis template for the Geneva School of Economics and Management (GSEM), University of Geneva, Switzerland. The class provides utilities to easily set up the cover page, the front matter pages, the pages headers, etc. with respect to the official guidelines of the GSEM Faculty for writing PhD thesis. This class is released under the LaTeX Project Public License version 1.3c.

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<sup>\*</sup>This document corresponds to gsemthesis v0.9.2, dated 2015/01/09.

## 1 Introduction

PhD thesis published within the Geneva School of Economics and Management have to follows some guidelines, especially for the cover page. The gsemthesis class is a IATEX template providing utilities to easily set up these guidelines in your thesis. In addition the class loads several usefull packages generally used when writing a thesis. We recommend the user to have a look to the class definition in Section 3.1 to be aware of the list of packages that the class already includes. The Section 2 details how to start with the gsemthesis class and how to configure your thesis. The user interested in customizing the class can read the Section 3 which details the full implementation of the class with usefull comments.

This class was successfully tested with pdfTeX 3.1415926-2.5-1.40.14 (TeX Live 2013/Debian).

This class has been written by Emmanuel ROUSSEAUX with contributions from William AEBERHARD and Tuan NGUYEN.

## 2 Usage

This Section introduces the use of the gsemthesis class. All macros and environments the class provides are described. We assume the user is already familiar with LATEX.

#### 2.1 Installation

#### 2.1.1 Requirements

#### 2.2 Getting started

To use the class start your document with the command \documentclass{gsemthesis}. A minimal file is:

\documentclass{gsemthesis}
\begin{document}
Here is it, I started my PhD!
\end{document}

#### 2.3 Writing the dissertation in French

The GSEM accepts English and French for PhD thesis dissertations. Default language is English. If you write your dissertation in French, you have to you the fr class option as follows:

\documentclass[fr]{gsemthesis}

## 2.4 Configuring and printing the cover page

\printcoverpage

The class provides the GSEM PhD thesis cover page ready to be printed. You can ask to print it by calling \printcoverpage just after the \begin{document}. Before printing the cover page you first need to configure it with your thesis details: title, author, supervisors, committee, etc. The minimal example becomes:

\documentclass{gsemthesis}
\title{My PhD thesis}
\date{\today}
\thesisNumber{480}
... (others configuration commands)
\begin{document}
\printcoverpage
Here is it, I started my PhD!
\end{document}

\title
\date
\authorFirstname
\authorLastname
\thesisField

\thesisCommitteeA-F

\thesisNumber

The class uses the classical \title{text} and \date{text} commands of the book class to set the title and the date. Instead of using the \author{text} command we provide the two commands \authorFirstname{text} and \authorLastname{text} to separately handle the firstname and the lastname. You specify the PhD you are enrolled in with the \thesisField{text}, among others: Economics, Management, Statistics, Information Systems. Please contact the scientific committee of your PhD to obtain the applicable title. You can specify information about members of your thesis committee with the six \thesisCommitteeA-F{title}{firstname}{lastname}{role} commands. With the role field you specify the role played by this member in the committee and his/her affiliation. Generally you specify the role "Chair" in \thesisCommitteeA, the role "adviser" for your adviser/co-advisers, and leave the field empty for the other members. When your manuscript has been accepted by your jury, the Faculty attributes a unique thesis number which has to be printed on the cover page. The \thesisNumber{text} allows to supply it.

#### 2.5 Configuring and printing the front matter pages

After the cover page the thesis has to provide in a the following order (1) the acknowledgements, (2,3) an abstract in both English and French (the order depending on the main language of your dissertation: if your dissertation is written in English you will start with the English abstract; if your dissertation is written in Frenchyou will start with the French abstract), (4) the table of contents, and (5) an optional dedication. These elements are usually called the front matter. These pages will be printed by calling the  $\printfrontmatter$  command. The best place for this command is just after the  $\printfrontmatter$  command. To fill these pages use the commands  $\acknowledgements{text}$ ,  $\abstractEN{text}$ ,  $\abstractEN{text}$ , and  $\dedication{text}$ . We suggest you use these commands in the preambule of the document, just after the commands used to set the cover page.

\printfrontmatter

\acknowledgements \abstractEN \abstractFR \dedication

\startintroduction

\startconclusion

#### 2.6 Introduction and conclusion

Generally we don't want to number the introduction and the conclusion, but we want they appear in the table of contents. This leads to a specific handling of the creation of these chapter, especially to have correct page headers. Therefore, instead of using \chapter{introduction} (respectively \chapter{conclusion}) to start a such chapter we provide the function \startintroduction (respectively \startconclusion) to easily start the chapter with a correct handling of the table of contents and page headers.

## 2.7 Bibliography

Forthcoming (to discuss: use biblatex, require biber, author-year style, sorting scheme)

## 2.8 Draft mode

When sharing draft versions of your dissertation you may prefer to hide some items of the cover page (thesis committee, thesis number, etc.) and some Sections (acknowledgments, the dedications. etc.) that probably have not been defined yet. For this purpose you can use the draft option:

\documentclass[draft]{gsemthesis}

#### 2.9 Miscellaneous

The class also provides some optional functions that can turn out to be usefull when writing your thesis. The default itemize environment set important spaces between

itemize\*

each items, the previous paragraph and the next paragraph. The itemize\* environment reduces these spaces to allow a more compact (and nicer) presentation of a list item. Forthcoming. To add: section in reduction, todonotes

## 3 Implementation

In this Section the full code of the gsemthesis is discussed. The reader interested in customizing the class will find useful comments to understand the design of the class.

#### 3.1 Document properties

```
The class is derived from the standard book class as follows:
```

1 \LoadClass[a4paper,12pt,twoside] {book}

We set the document encoding to UTF-8

2 \usepackage[utf8]{inputenc}

We use the lmodern vectorial fonts to render the document.

3 \usepackage{lmodern}

We use the etoolbox package for defining class options (fr, draft)

4 \usepackage{etoolbox}

We add the option fr

- 5 \newtoggle{fr}
- 6 \DeclareOption{fr}{\toggletrue{fr}}

We add the option draft

- 7 \newtoggle{draft}
- 8 \DeclareOption{draft}{\toggletrue{draft}}

We process options we just defined

9 \ProcessOptions

We use the geometry package to set margin properties

10 \RequirePackage[top=2.5cm, bottom=2.5cm, left=2.5cm, right=2.5cm]{geometry}

We use the package to handle some specific text spacing (title)

11 \usepackage{setspace}

#### 3.2 Colors

We define some nice colors that will be later used for links (url, email, citations, etc.). The gsemblue color is the official color (to date 2014.02.20) of the GSEM Faculty.

- 12 \usepackage{xcolor}
- 13 \definecolor{erblue}{HTML}{126199}
- 14 \definecolor{erorange}{HTML}{FF7F00}
- 15 \definecolor{gsemblue}{HTML}{465F7F}

## 3.3 Graphics

We add some practical packages to handle several image files (.png, .pdf), handle placement of graphics, and handle subfigures

- 16 \usepackage{graphicx}
- 17 \usepackage{float}
- 18 \usepackage{subfigure}

#### 3.4 Link management

We use the hyperref package to manage internal links and set colors for each link type.

```
19 \RequirePackage{hyperref}
20 % \hypersetup{%
21 % colorlinks=true,%
22 % linkcolor=black,%
23 % filecolor=gsemblue,%
24 % citecolor=gsemblue,%
25 % urlcolor=gsemblue%
26 % }%
27 \hypersetup{%
28 colorlinks=true,%
29 linkcolor=black,%
30 filecolor=erblue,%
31 citecolor=erblue,%
32 urlcolor=erblue,%
33 }%
```

We use the url package for a complete support of external links and define a nice font style.

```
34 \RequirePackage{url}
35 \urlstyle{sf}
```

#### 3.5 Maths

We add standard packages from the American Mathematical Society to handle mathematical symbols, environment (equations, etc.) and the Computer Modern font use by default to render math.

36 \usepackage{amssymb,amsmath,amsfonts}

#### 3.6 Page headers management

We use the fancyhdr package for a fine tuning of headers and footers of the different page type (cover page, chapters, unumbered chapters, etc.)

```
37 \usepackage{fancyhdr}
```

```
We set the fancy page style (default page style) as follows:
```

```
38 \pagestyle{fancy}
39 \fancyhf{}
40 \fancyhead[LO]{\thepage\hfill\nouppercase{\leftmark}}
41 \fancyhead[RE]{\nouppercase{\rightmark}\hfill\thepage}
42 \fancyfoot[LE,RO]{}
We reset the plain style
43 \fancypagestyle{plain}{
    \fancyhf{}
    \renewcommand{\headrulewidth}{Opt}
46
    \fancyfoot[LE,RO]{}
47 }
We define a style for the cover page (actually not used)
48 \fancypagestyle{cover}{
    \fancyhf{}
    \renewcommand{\headrulewidth}{0.5pt}
    \renewcommand{\footrulewidth}{0.5pt}
52 }
```

```
We define a style for unumbered chapters (starred chapters)
53 \fancypagestyle{unnumberedchapter}{
    \fancyhf{}
55
    \renewcommand{\headrulewidth}{Opt}
56
    \renewcommand{\footrulewidth}{Opt}
    \fancyhead[LO]{\nouppercase{\leftmark}}
57
    \fancyhead[RE]{\nouppercase{\rightmark}}
    \fancyfoot[LE,RO]{}
60 }
When a new chapter starts on a odd number, we add a blank page to force it to start to
a even number. We define an empty style for this blank page
61 \fancypagestyle{empty}{
    \fancyhf{}
    \renewcommand{\headrulewidth}{Opt}
    \fancyfoot[LE,RO]{}
65 }
Then we apply the empty style to odd page before a new chapter
66 \def\cleardoublepage{\clearpage\if@twoside \ifodd\c@page\else
      \hbox{}
      \thispagestyle{empty}
68
      \newpage
69
      \if@twocolumn\hbox{}\newpage\fi\fi\fi}
70
71 \clearpage{\pagestyle{empty}\cleardoublepage}
We define the default language of the document.
72 \iftoggle{fr}{
    \usepackage[francais]{babel}
74 }{
    \usepackage[english]{babel}
75
76 }
This package provides the commands \og and \fg for correctly handling French quotes.
77 \usepackage{csquotes}
We define the date format for the cover page (non-draft mode).
78 \usepackage{datetime}
79 \newdateformat{monthyeardate}{\monthname[\THEMONTH] \THEYEAR}
```

#### 3.7 Bibliography management

We use biblatex/biber to process the bibliography with the following settings: (1) citations with more than two authors will always be writen as "First author et al.", (2) this "et al." rule is applied even if it leads to ambiguities between long list of authors with the same first author.

```
80 \ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensuremath{\,^{80}}\ensurem
```

We use the style authoryear to print authors and the year when citing a document in the text. We define a customized sorting style to sort the list of references (printed at the end of the document) according to this (ordered) attributes: name, year, month, day, and title. We define the following sorting scheme:

```
82 \DeclareSortingScheme{nymdt}{
83   \sort{
84   \field{presort}
85   }
86   \sort[final]{
87   \field{sortkey}
88  }
```

```
\sort{
89
90
       \name{sortname}
       \name{author}
       \name{editor}
92
       \name{translator}
93
       \field{sorttitle}
94
       \field{title}
95
     }
96
97
     \sort{
       \field{sortyear}
98
       \field{year}
99
100
     \sort{
101
       \field[padside=left,padwidth=2,padchar=0] {month}
102
       \literal{00}
103
104
105
       \field[padside=left,padwidth=2,padchar=0]{day}
106
       \literal{00}
107
108
     \sort{
109
       \field{sorttitle}
110
111
112
       \field[padside=left,padwidth=4,padchar=0]{volume}
113
       \literal{0000}
114
     }
115
116 }
```

## 3.8 Cover page

#### 3.8.1 System-level functions

The following commands define labels for the different parts of the cover page

```
117 \def\thesisLocationLabel{
     ~ \\[0.4em]%
118
     \iftoggle{fr}{
119
120
       Une thèse soumise à la\\[0.2em]
       Geneva School of Economics and Management, \\[0.2em]
121
       Université de Genève, Suisse, \\[0.2em]
122
       pour l'obtention du\\[0.2em]
123
     }{
124
       A thesis submitted to the \\[0.2em]
125
       Geneva School of Economics and Management, \\[0.2em]
126
       University of Geneva, Switzerland, \\[0.2em]
128
       in fulfillment of the requirements for the degree of \\[0.2em]
129 }
130 }
131
132 \iftoggle{fr}{
     \def\thesisByLabel{par}
134 }{
     \def\thesisByLabel{by}
135
136 }
137 \iftoggle{fr}{
    \def\thesisFieldLabel{Doctorat en}
139 }{
     \def\thesisFieldLabel{PhD in}
141 }
```

```
142 \iftoggle{fr}{
                   143 \def\thesisCommitteeLabel{Membres du jury:}
                   144 }{
                        \def\thesisCommitteeLabel{Members of the thesis committee:}
                   145
                   146 }
                   147 \iftoggle{fr}{
                       \def\thesisNumberLabel{Thèse no.}
                   149 }{
                        \def\thesisNumberLabel{Thesis No.}
                   151 }
                   152
                    3.8.2 User-level functions
                    Set up of the cover page and assimilated functions.
 \authorFirstname Set up the \theauthorFirstname variable.
                   153 \newcommand{\authorFirstname}[1]{\def\theauthorFirstname{#1}}
  \authorLastname Set up the \theauthorLastname variable.
                   154 \newcommand{\authorLastname}[1]{\def\theauthorLastname{\textsc{#1}}}
     \thesisField Set up the \thethesisField variable.
                   155 \newcommand{\thesisField}[1]{\def\thethesisField{#1}}
\thesisCommitteeA Set up the \thethesisCommitteeA variable.
                   156 \newcommand{\thesisCommitteeA}[4]{%
                   157 \ifx&#3&%
                   158 \def\thethesisCommitteeA{}%
                   159 \ensuremath{\setminus} else
                   160 \det \theta = \frac{\#1^{\#2^{\cot}}}{\#3}, \#4}
                   161 \fi
                   162 }
\thesisCommitteeB Set up the \thethesisCommitteeB variable.
                   163 \newcommand{\thesisCommitteeB}[4]{%
                   164 \ifx&#3&%
                   165 \def\thethesisCommitteeB{}%
                   166 \else
                   167 \quad \texttt{\def}\thethesisCommitteeB{\#1~\#2~\text{\textsc}{\#3},~\#4}{\%}
                   168 \fi
                   169 }
\thesisCommitteeC Set up the \thethesisCommitteeC variable.
                   170 \newcommand{\thesisCommitteeC}[4]{%
                   171 \ifx&#3&%
                   172 \def\thethesisCommitteeC{}%
                   173 \else
                   174 \det \text{committeeC}{\#1^*\#2^*\det \#3}, \#4}%
                   175 \fi
                   176 }
\thesisCommitteeD Set up the \thethesisCommitteeD variable.
                   177 \newcommand{\thesisCommitteeD}[4]{%
                   178 \ifx&#3&%
                   179 \def\thethesisCommitteeD{}%
                   180 \ensuremath{\setminus} else
                   181 \def\thethesisCommitteeD{#1~#2~\textsc{#3},~#4}%
                   182 \fi
                   183 }
```

```
\thesisCommitteeE Set up the \thethesisCommitteeE variable.
                 184 \newcommand{\thesisCommitteeE}[4]{%
                 185 \ifx&#3&%
                 186 \def\thethesisCommitteeE{}%
                 187 \else
                      189 \fi
                 190 }
\thesisCommitteeF Set up the \thethesisCommitteeF variable.
                 191 \newcommand{\thesisCommitteeF} [4] {\%}
                 192 \ifx&#3&%
                 193 \def\thethesisCommitteeF{}%
                 194 \else
                 196 \fi
                 197 }
   \thesisNumber Set up the \thethesisNumber variable.
                 198 \newcommand{\thesisNumber}[1]{\def\thethesisNumber{#1}}
                  The cover page is created with the following code
 \printcoverpage Print the cover page of the thesis.
                 199 \newcommand{\printcoverpage}{%
                      \thispagestyle{empty}
                 200
                      \begin{center}
                 201
                      \rule{\linewidth}{0.4pt}
                 202
                 203
                 204
                      \vspace*{1.2cm}
                 205
                 206
                      {\huge
                        {\scshape
                 207
                          \begin{spacing}{0.8}
                 208
                            \@title
                 209
                          \end{spacing}
                 210
                        }
                 211
                 212
                      }
                 213
                      \vspace*{1.2cm}
                 214
                 215
                      \thesisByLabel
                 216
                 217
                 218
                      \vspace*{0.4cm}
                 219
                 220
                      {\large \theauthorFirstname~\theauthorLastname}
                 221
                 222
                      \vspace*{0.8cm}
                 223
                 224
                      \thesisLocationLabel
                 225
                      \thesisFieldLabel{~}\thethesisField
                 226
                 227
                      \vfill
                 228
                      \iftoggle{draft}{
                 229
                 230
                        \iftoggle{fr}{
                 231
                          \emph{Ébauche}
                 232
                          \emph{Draft}
                 233
```

```
}
                                235
                                236
                                         \vspace*{0.8cm}
                                237
                                238
                                         \iftoggle{draft}{~}{\thesisCommitteeLabel}
                                239
                                240
                                         \vspace*{0.2em}
                                241
                                242
                                         \iftoggle{draft}{~}{\thethesisCommitteeA}
                                243
                                244
                                         \vspace*{0.2em}
                                245
                                246
                                         \iftoggle{draft}{~}{\thethesisCommitteeB}
                                247
                                248
                                249
                                         \vspace*{0.2em}
                                250
                                         \iftoggle{draft}{~}{\thethesisCommitteeC}
                                251
                                252
                                         \vspace*{0.2em}
                                253
                                254
                                         \iftoggle{draft}{~}{\thethesisCommitteeD}
                                255
                                256
                                         \vspace*{0.2em}
                                257
                                258
                                         \iftoggle{draft}{~}{\thethesisCommitteeE}
                                259
                                260
                                261
                                         \vspace*{0.2em}
                                262
                                         \iftoggle{draft}{~}{\thethesisCommitteeF}
                                263
                                264
                                         \vspace*{1.4cm}
                                265
                                ^{266}
                                         \label{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{$\rath{}\rath{$\rath{$\rath{$\rath{}}}}}}}}}}}}}}}}} }}} }} }} }} }} 
                                267
                                268
                                269
                                         \vspace*{0.1cm}
                                270
                                271
                                         \iftoggle{draft}{\@date}{\monthyeardate\today}
                                272
                                273
                                         \vspace*{0.1cm}
                                274
                                         \rule{\linewidth}{0.4pt}
                                276
                                         \end{center}
                                277 }
                                 3.9
                                             Front matter
\acknowledgements Set up the \theacknowledgements variable.
                                278 \mbox{\command{\acknowledgements}[1]{\def\theacknowledgements{\#1}}}
          \abstractEN Set up the \theabstractEN variable.
                                279 \newcommand{\abstractEN}[1]{\def\theabstractEN{#1}}
          \abstractFR Set up the \theabstractFR variable.
                                280 \newcommand{\abstractFR}[1]{\def\theabstractFR{\#1}}
          \dedication Set up the \thededication variable.
                                281 \newcommand{\dedication} [1] {\def\thededication{#1}}
```

}

234

\printfrontmatter The front matter pages are created with the following code

```
282 \newcommand{\printfrontmatter}{%
283
     \iftoggle{draft}{~}{
284
       \frontmatter
285
286
       \iftoggle{fr}{
287
288
          \chapter*{Remerciements}
289
          \addcontentsline{toc}{chapter}{Remerciements}
290
       }{
291
         \chapter*{Acknowledgements}
292
         \addcontentsline{toc}{chapter}{Acknowledgements}
293
       \label{ch:acknowledgements}
294
295
       \thispagestyle{plain}
296
       \theacknowledgements
297
298
       \newpage
299
300
       \iftoggle{fr}{
          \chapter*{Résumé}
301
          \addcontentsline{toc}{chapter}{Résumé}
302
          \label{ch:abstractFR}
303
304
          \thispagestyle{plain}
305
         \theabstractFR
306
307
         \newpage
308
         \chapter*{Abstract}
309
          \addcontentsline{toc}{chapter}{Abstract}
310
         \label{ch:abstractEN}
311
          \thispagestyle{plain}
312
         \theabstractEN
313
       }{
314
          \chapter*{Abstract}
315
          \addcontentsline{toc}{chapter}{Abstract}
316
317
          \label{ch:abstractEN}
          \thispagestyle{plain}
318
         \theabstractEN
319
320
321
         \newpage
322
         \chapter*{Résumé}
323
         \addcontentsline{toc}{chapter}{Résumé}
324
         \label{ch:abstractFR}
325
         \thispagestyle{plain}
326
          \theabstractFR
327
328
329
     }
330
     \tableofcontents
331
332
     \iftoggle{draft}{~}{
333
       \cleardoublepage
334
335
       \thispagestyle{plain}
336
337
338
       \vspace*{4cm}
       {\rm m}
339
```

```
340 \raggedleft\thededication\par
341 }
342
343 \newpage
344 }
345
346 \mainmatter
347 }%
```

#### 3.10 Introduction and conclusion starter

```
\startintroduction The front matter pages are created with the following code

348 \newcommand{\startintroduction}{%

349 \chapter*{Introduction}

350 \addcontentsline{toc}{chapter}{Introduction}

351 \label{ch:introduction}

352 \markboth{}{Introduction}

353 }

\startconclusion The front matter pages are created with the following code

354 \newcommand{\startconclusion}{%

355 \chapter*{Conclusion}

356 \addcontentsline{toc}{chapter}{Conclusion}

357 \label{ch:conclusion}

358 \markboth{}{Conclusion}
```

#### 3.11 Miscellaneous

359 }

itemize\* A narrowed version of the itemize environment. implementation here.

```
360 \newenvironment{itemize*}%
361 {\vspace{-2mm}\begin{itemize}%
362 \setlength{\itemsep}{0pt}%
363 \setlength{\parskip}{0pt}%
364 }%
365 {\end{itemize}\vspace{-2mm}%
366 }
```

# 4 Minimal working example

Forthcoming