

The `uacoursetext` class*

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1 Introduction

This package implements the house style of Universiteit Antwerpen for course texts and master's theses except for the font. Computer Modern Bright is used instead of the non-free Auto1. Using these class files will make it easy for you to make and keep your course texts and master's theses compliant to this version and future versions of the UA house style.

If you think

- there's an error in compliancy w.r.t. the house style,
- there's a feature missing in this class file,
- there's a bug in this class file,

please, contact us through e-mail (walter.daems@ua.ac.be). We'll provide you with an answer and if (and as soon as) possible with a solution to the problem you spotted.

Do you like these class files? You're welcome to send us beer, wine, or just kind words.

2 Synopsis

The `uacoursetext` and `uamasterthesis` classes are an extension to the standard `LATEX book` class. It is intended to be used for writing course texts and master's theses. It provides a title page that is compliant to the UA house style, and it also typesets the rest of your document appropriately.

*This document corresponds to `uacoursetext` 1.0, dated 2013/05/11.

It requires (and uses) the following packages:

- the `ifthen` package
- the `mtarg` package
- the `geometry` package
- the `hyperref` package
- the `cmbright` package
- the `graphicx` package
- the `eso-pic` package
- the `color` package
- the `tikz` package
- the `fancyhdr` package
- the `pst-barcode` package
- the `auto-pst-pdf` package

and optionally

- the `varioref` package.

So make sure these packages are available to your \LaTeX compiler.

3 Portability

This class file should be ready to use with all common \LaTeX compilers (PDF \LaTeX , \LaTeX , Xe \LaTeX ,...) from the major \TeX -distributions (TeXTeX, TexLive, MikTeX). If you experience problems, please inform the authors.

4 Usage

4.1 Basic Usage

4.1.1 `uacoursetext` class

Use the following harness for your \LaTeX course text:

```

\documentclass[a4paper]{uacoursetext}

\usepackage{<include any packages you require here>}

\facultyacronym{<put your faculty's acronym here>}

\title{<put your title here>}
\subtitle{<put your subtitle here>}
\author{<put your name here>}

\courseversion{<put a version identifier here>}
\versionyear{<the publication date of the course here>}

\lecturer{<person teaching the course>}
\programme{<descriptor of first programme>}
\course{<course code>}{<name of the course>}%

\academicyear{<XXXX-YYYY>}

\begin{document}

  \maketitle

  % put your LaTeX code here

  \finalpage

\end{document}

```

4.1.2 uamasterthesis class

Use the following harness for your L^AT_EX master's thesis:

```

\documentclass[a4paper]{uamasterthesis}

\usepackage{<include any packages you require here>}

\facultyacronym{<put your faculty's acronym here>}

\title{<put your title here>}
\author{<put your name here>}
\supervisorI{<put the first supervisor's name(s) here>}
\supervisorII{<put the first supervisor's name(s) here>}
\supervisorIII{<put the first supervisor's name(s) here>}
\supervisorIV{<put the first supervisor's name(s) here>}

% classmarker
\academicyear{<XXXX-YYYY>}

```

```

\begin{document}

\maketitle

% put your LaTeX code here

\finalpage

\end{document}

```

4.2 The macros explained

After every macro, it has been indicated to which class the macro applies (between square brackets), and whether it is mandatory or not.

`\facultyacronym` [`uacoursetext` / `uamasterthesis`] (mandatory)
This macro sets the acronym of the faculty. This macro also sets the faculty name according to the specified acronym. If you're missing an faculty or institute, please ask the authors to complete the list.

The available acronyms are:

Acronym	Faculty name
CPG	Centrum Pieter Gillis
FBD	Faculteit Farmaceutische, Biomedische en Diergeneeskundige Wetenschappen
GGW	Faculteit Geneeskunde en Gezondheidswetenschappen
IOB	Instituut voor Ontwikkelingsbeleid- en beheer
IOIW	Instituut voor Onderwijs- en Informatiewetenschappen
LW	Faculteit Letteren en Wijsbegeerte
OW	Faculteit Ontwerpwetenschappen
PSW	Faculteit Politieke en Sociale Wetenschappen
REC	Faculteit Rechten
TEW	Faculteit Toegepaste Economische Wetenschappen
TI	Faculteit Toegepaste Ingenieurswetenschappen
WET	Faculteit Wetenschappen

`\title` [`uacoursetext` / `uamasterthesis`] (mandatory)
This macro sets the title of the document. It also sets the `pdftitle` tag of the `hyperref` package, so that the PDF-document meta-information is correct.

`\subtitle` [`uacoursetext`] (optional)
This macro sets the title of the document. You may use this

- to further clarify the title

- to indicate the nature of this document

The latter is to be considered when you want to provide multiple documents as parts of the full course text (e.g., Course Notes, Formula Collection, Exercise Book, Solution Book). This macro also sets the `subject` tag of the `hyperref` package, so that the PDF-document meta-information is correct.

<code>\author</code>	[uacoursetext / uamasterthesis] (mandatory) This macro sets the author of the document. It also sets the <code>pdfauthor</code> tag of the <code>hyperref</code> package, so that the PDF-document meta-information is correct.
<code>\publisher</code>	[uacoursetext] (mandatory) This macro sets the publisher information of the document. It is printed on the front page. It defaults to Universitas printing, one of the standard printing service of Universiteit Antwerpen.
<code>\publishercode</code>	[uacoursetext] (mandatory) This macro sets the publisher code of the document. It is printed on the front page. This is code that the publisher uses for its internal administration. It may be a proprietary code, or an ISBN number.
<code>\courseversion</code>	[uacoursetext] (optional) This macro indicates which version of the course this is. You may use your own versioning system that puts things clear for you.
<code>\versionyear</code>	[uacoursetext] (mandatory) This is to be the year in which you published the current version of the course in the form YYYY.
<code>\lecturer</code>	[uacoursetext] (mandatory) This is the name of the person that actually teaches the course (in Dutch: titularis). If there are multiple persons, please, use the macros <code>\lectureri</code> , <code>\lecturerii</code> , <code>\lectureriii</code> , <code>\lectureriv</code> .
<code>\programme</code>	[uacoursetext] (mandatory) This macro takes three arguments: <ul style="list-style-type: none"> • the type of the programme: BA, SP, VP or MA • the domain of the programme: IW • the qualifier of the programme: BK, CH, BCH, EM, EI

If you need more programme classes or qualifiers, ask the authors to complete the available codes. Correct usage of the macro will result in error-free descriptions on your title page. You can overrule the standard descriptions, by specifying 'FREE' as first argument and a free text description as second, leaving the third one empty. However, we strongly advise against taking this route. Instead, ask the authors to complete the available codes.

`\supervisor` [uamasterthesis] (mandatory)
 This is the name of the person that promotes the thesis. If there are multiple persons, please, use the macros `\supervisori`, `\supervisorii`, `\supervisoriii`, `\supervisoriv`.

`\course` [uacoursetext] (mandatory)
 Code (first argument) and name (second argument) of the curriculum course this coursematerial belongs to. The code should be of the form: TNNNFFFAAA, with:

Code	Explanation
T	a number indicating the type of programme (1 for Bachelor courses, 2 for Master courses , 5 for specific courses of preparatory programmes)
NNN	a number assigned by the Faculty's administration
FFF	the acronym of your Faculty, e.g., FTI
AAA	an alphanumeric code assigned by the Faculty's administration

An example of such a code: 1001FTIWIS, for the first-semester mathematics course of the Faculty of Applied Engineering.

The name should be of the form `x-YYYYYYYY` with `x` the number of the semester and `YYYYYYYY` the official name of the course.

`\course` [uacoursetext] (mandatory)
 In case the course's name contains accented characters, one should also provide a qr version, containing utf8-characters only. The macro for this purpose takes only one argument, i.e. the course's name! This is to avoid inconsistencies in the course codes.

`\academicyear` [uacoursetext / uamasterthesis] (mandatory)
 Use this macro to specify the academicyear in full, i.e. in the form `XXXX-YYYY`.

`\diploma` [uamasterthesis] (mandatory)
 This must be the official title, in Dutch. To avoid errors, we chose to use specific codes, that will expand to the correct description.

Code	Description (in Dutch!)
MA-IW-BK	Master of Science in de industriële wetenschappen: bouwkunde
MA-IW-BCH	Master of Science in de industriële wetenschappen: biochemie
MA-IW-CH	Master of Science in de industriële wetenschappen: chemie
MA-IW-EI	Master of Science in de industriële wetenschappen: elektronica-ICT
MA-IW-EI-AE	Master of Science in de industriële wetenschappen: elektronica-ICT, afstudeerrichting, Automotive Engineering
MA-IW-EI-ICT	Master of Science in de industriële wetenschappen: elektronica-ICT, afstudeerrichting ICT
MA-IW-EM-AE	Master of Science in de industriële wetenschappen: Elektromechanica, afstudeerrichting Automotive Engineering
MA-IW-EM-AU	Master of Science in de industriële wetenschappen: Elektromechanica, afstudeerrichting Automatisering
MA-IW-EM-EM	Master of Science in de industriële wetenschappen: Elektromechanica, afstudeerrichting Elektromechanica

<code>\defensedate</code>	[uamasterthesis] (mandatory) Date of the defense in Dutch, in the form 'month year', e.g. "juni 2012".
<code>\defenselocation</code>	[uamasterthesis] (optional) Location of the defense. Defaults to "Antwerpen".
<code>\copyrightnotices</code>	[uacoursetext] (optional) Use this macro to specify additional copyright notice messages to appear in het copyright notice on the bottom of page 2 of your course text.

4.3 Examples

4.3.1 uacoursetext

```
<*ct-example>
\documentclass[a4paper,11pt,oneside,openright,english]{uacoursetext}

\usepackage[english,dutch]{babel}
\selectlanguage{english}

\title{Z\'agen, zoeken en zuchten}
\qrtitle{Zgen, zoeken en zuchten}
\subtitle{Cursusnota's}
\author{Walter Daems en Paul Levrie}

\courseversion{1.3}
\versionyear{2013}

\lectureri{Zoltan Zoekers}
```

```

\qrlectureri{Zoltan Zokers}
\lecturerii{Siana Sigh}
\lectureriii{Zeger de Zager}
\qrlectureriiii{Zeger de Zger}

\facultyacronym{TI}
\programme{MA}{IW}{EI}
\coursei{2023FTIZZZ}{5-Zoekmachines in een zaagperspectief}
\courseii{2045FTIIII}{6-Zaagmachines in \e'en zuchtperspectief}
\qrcourseii{6-Zaagmachines in n zuchtperspectief}

\academicyear{2012-2013}

\publisher{Cursusdienst\UNIVERSITAS\
Prinsesstraat 16\
2000 Antwerpen\
T +32 3 233 23 72\
F +32 3 233 65 81\
E info@cursusdienst.be\
W www.universitas.be}

\publishercode{C11111102}

\copyrightnotices{
  The graphics in this document have been typeset using \texttt{TikZ}.\
  This document has been \TeX-ed on a GNU/Linux workstation.
}

\begin{document}
\selectlanguage{dutch} % or english if your text is in English

\maketitle

\frontmatter

\tableofcontents

\mainmatter
\chapter*{Inleiding}
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad
minim veniam, quis nostrud exercitation ullamco laboris nisi ut
aliquip ex ea commodo consequat. Duis aute irure dolor in
reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
pariatur. Excepteur sint occaecat cupidatat non proident, sunt in
culpa qui officia deserunt mollit anim id est laborum.

\chapter{Onzin voor dummies}

```

\section{Een beetje Cicero}

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

\begin{equation}
e^{-j\pi} + 1 = 0
\end{equation}

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

\section{En waartoe het geleid heeft}

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

\subsection{Herhaling}

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui

dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

`\subsection{Begint vervelend te worden}`

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

`\newpage`

`\subsection{Begint echt vervelend te worden}`

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

`\chapter{Besluit}`

`\backmatter`

`\appendix`

`\chapter{Symbolen}`

`\chapter{Romeinse sprekers}`

`\chapter{Referentielijst}`

```
\makefinalpage

\end{document}
</ct-example>
```

4.3.2 uamasterthesis

```
<*mt-example>
\documentclass[a4paper,11pt,twoside,openright,english]{uamasterthesis}

\usepackage[english,dutch]{babel}

\selectlanguage{english}

\title{Minimax optimisatie voor performantieruimtemodellering}
\author{Bert Bibber}

\supervisorI{Prof. dr. ir. Kumulus (Universiteit Antwerpen)}
\supervisorII{Prof. dr. Hilarius Warwinkel (TNT-Bang, N.V.)}
\supervisorIII{ing. Piet Pienter (POM)}

\facultyacronym{TI}
\academicyear{2012-2013}
\diploma{MA-IW-EI-ICT}
\defenselocation{Antwerpen}
\defensedate{juni 2012}

\begin{document}
\selectlanguage{dutch} % or english if your text is in English

\maketitle

\frontmatter

\tableofcontents

\mainmatter
\chapter*{Inleiding}
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad
minim veniam, quis nostrud exercitation ullamco laboris nisi ut
aliquip ex ea commodo consequat. Duis aute irure dolor in
reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
pariatur. Excepteur sint occaecat cupidatat non proident, sunt in
culpa qui officia deserunt mollit anim id est laborum.

\chapter{Onderzoeksvraag}
```

`\section{Een beetje Cicero}`

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

`\begin{equation}`
`e^{-j\pi} + 1 = 0`
`\end{equation}`

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

`\chapter{Literatuurstudie}`

`\chapter{Theoretische achtergrond}`

`\chapter{Eigen realisatie}`

`\chapter{Besluit}`

`\backmatter`
`\appendix`

`\chapter{Symbolen}`
`\chapter{Referentielijst}`

`\makefinalpage`

`\end{document}`

</mt-example>

5 Implementation

5.1 Class inheritance

For simplicity, we'll derive everything from the standard `book` class.

Before loading the class, we provide an extra

- 'copyright' option (only for `uacoursetext` class) that forces printing a watermark on every page. For the paper version of your document, this is inappropriate, but for any e-copy you make available, this may be appropriate;
- 'titlepagetableonly' option (only for `uacoursetext` class) that forces only the title-page data to be printed in table form as first page. Many publishers require the manuscript to be delivered in this form. They perform the entire typesetting of the title page.
- 'qr' option (only for `uacoursetext` class) that allows you to generate a QR code containing the details of the course on the title page (or the table-only) title page. For this option to work, the package `pstricks` is loaded. It will not work with `pdfLATEX` unless you enable shell escape. Read your `pdfLATEX`-package documentation on how to do that.
- 'titlepagenoartwork' option that forces the title pages to print without circle graphics and logo. This allows for printing on a pre-printed color sheet that already contains circle graphics and logo;

```
1 <*ct>
2 \newif\if@copyright
3 \DeclareOption{copyright}{\@copyrighttrue}
4 \newif\if@qr
5 \DeclareOption{qr}{\@qrtrue}
6 </ct>

7 <*ct | mt>
8 \newif\if@titlepagenoartwork
9 \DeclareOption{titlepagenoartwork}{\@titlepagenoartworktrue}
10 \newif\if@titlepagetableonly
11 \DeclareOption{titlepagetableonly}{\@titlepagetableonlytrue}
12 </ct | mt>
```

We execute some standard options: We load the `book` class.

```
13 <*ct | mt>
14 \ExecuteOptions{a4paper,11pt,final,oneside,openright}
15 \ProcessOptions
16 \LoadClassWithOptions{book}
17 </ct | mt>
```

5.2 Modern typesetting

Let's force some modern typesetting without paragraph indentation and with a decent paragraph spacing.

```
18 <*ct | mt>
19 \setlength{\parindent}{0pt}
20 \addtolength{\parskip}{0.75\baselineskip}
21 \setcounter{secnumdepth}{3}
22 </ct | mt>
```

5.3 Auxiliary packages

Reinventing the wheel is a waste of time, let's preload some appropriate auxiliary packages that have proven their value.

5.3.1 Geometry

Let's reduce the margins to 1 inch each.

```
23 <*ct | mt>
24 \RequirePackage[top=1in, bottom=1in, left=1in, right=1in]{geometry}
25 </ct | mt>
```

5.3.2 Font packages

The utf8 stuff has been disabled because of the barcode package that screws up on that encoding.

```
26 <*ct | mt>
27 \RequirePackage{cmbright}
28 \RequirePackage{ifluatex}
29 \RequirePackage{ifxetex}
30 \ifluatex
31 \RequirePackage{fontspec}
32 %\setmainfont{Calibri}
33 %\setsansfont{Calibri}
34 \else
35 \ifxetex
```

```

36 \RequirePackage{fontspec}
37 %\setmainfont{Calibri}
38 %\setsansfont{Calibri}
39 \else
40 \usepackage[final,expansion=true,protrusion=true,spacing=true,kerning=true]{microtype}
41 \fi
42 \fi
43 </ct | mt>

```

5.3.3 Boilerplate packages

Some boilerplate packages and an empty macro to test against (using `\ifx`)

```

44 <*ct | mt>
45 \RequirePackage{ifthen}
46 \RequirePackage{ifmtarg}
47 \newcommand{\@emptymacro}{}
48 </ct | mt>

```

5.3.4 Graphics packages

Graphics packages that are required for the title page, but may come in handy for regular use as well.

Some packages for `coursetext` and `masterthesis`:

```

49 <*ct | mt>
50 \RequirePackage{graphicx}
51 \RequirePackage{eso-pic}
52 \RequirePackage{color}
53 \RequirePackage{tikz}
54 </ct | mt>

```

In `uacoursetext` we also want to generate a qr code. Therefore we load the `pst-barcode` and `auto-pst-pdf` package.

```

55 <*ct>
56 \if@qr
57 \RequirePackage{pst-barcode}
58 \RequirePackage{auto-pst-pdf}
59 \fi
60 </ct>

```

5.3.5 Header/Footer

The de-facto standard for headers and footers:

```

61 <*ct | mt>
62 \RequirePackage{fancyhdr}
63 </ct | mt>

```

5.4 Colors

```

64 <*ct | mt>
65 \definecolor{uacorpbord}{cmyk}    {0.00,1.00,0.60,0.37}
66 \definecolor{uacorpblue}{cmyk}    {1.00,0.25,0.00,0.50}
67 \definecolor{uacorpplightblue}{cmyk}{1.00,0.00,0.08,0.13}
68 \definecolor{uacorporange}{cmyk}  {0.00,0.32,1.00,0.09}
69 \definecolor{uaftifresh}{cmyk}    {0.34,1.00,0.00,0.00}
70 \definecolor{uaftisober}{cmyk}    {0.10,1.00,0.00,0.49}
71 \definecolor{lightgray}{cmyk}     {0.00,0.00,0.00,0.05}
72 </ct | mt>

```

5.5 Tags

`\facultyacronym` The `facultyacronym` sets the faculty acronym tag `\@facultyacronym` that is used in the header/footer information. The correct acronym also sets the faculty's name correctly.

```

73 <*ct | mt>
74 \newcommand{\@facultyacronym}{}
75 \newcommand{\@faculty}{}
76 \newcommand{\@qrfaculty}{}
77 \newcommand{\facultyacronym}[1]{
78   \renewcommand{\@facultyacronym}{#1}
79   \ifthenelse{equal{#1}{CPG}}{\renewcommand\@faculty{Centrum
80     Pieter Gillis}}{
81   \ifthenelse{equal{#1}{FBD}}{\renewcommand\@faculty{Faculteit
82     Farmaceutische, Biomedische en Diergeneeskundige Wetenschappen}}{
83   \ifthenelse{equal{#1}{GGW}}{\renewcommand\@faculty{Faculteit
84     Geneeskunde en Gezondheidswetenschappen}}{
85   \ifthenelse{equal{#1}{IOB}}{\renewcommand\@faculty{Instituut
86     voor Ontwikkelingsbeleid- en beheer}}{
87   \ifthenelse{equal{#1}{IOIW}}{\renewcommand\@faculty{Instituut
88     voor Onderwijs- en Informatiewetenschappen}}{
89   \ifthenelse{equal{#1}{LW}}{\renewcommand\@faculty{Faculteit
90     Letteren en Wijsbegeerte}}{
91   \ifthenelse{equal{#1}{OW}}{\renewcommand\@faculty{Faculteit
92     Ontwerpwetenschappen}}{
93   \ifthenelse{equal{#1}{PSW}}{\renewcommand\@faculty{Faculteit
94     Politieke en Sociale Wetenschappen}}{
95   \ifthenelse{equal{#1}{REC}}{\renewcommand\@faculty{Faculteit
96     Rechten}}{
97   \ifthenelse{equal{#1}{TEW}}{\renewcommand\@faculty{Faculteit
98     Toegepaste Economische Wetenschappen}}{

```

```

99 \iffthenelse{\equal{#1}{TI}}{\renewcommand\@faculty{Faculiteit
100     Toegepaste Ingenieurswetenschappen}}{
101 \iffthenelse{\equal{#1}{WET}}{\renewcommand\@faculty{Faculiteit
102     Wetenschappen}}{
103     \errmessage{Error: wrong faculty acronym; choose one of FBD, GGW,
104     LW, OW, PSW, REC, TEW, TI, WET}}}}}}}}}}}}}}}}
105 \</ct | mt)

```

\title The `title` tag is native to `LATEX`. It sets the `\@title` tag that will be used on the title page. However, in view of the qr trouble, we fiddle a little with it. In case the title contains accented characters, you also need to provide a qr version in full unicode (so without the traditional `LATEX` accented characters).

```

106 \< *ct)
107 \newcommand{\@qrtitle}{}
108 \renewcommand{\title}[1]{%
109 \renewcommand\@title{#1}
110 \iff\@qrtitle\@emptymacro
111 \renewcommand\@qrtitle{#1}
112 \fi
113 }
114 \newcommand{\qrtitle}[1]{%
115 \renewcommand\@qrtitle{#1}
116 }
117 \</ct)

```

\subtitle This macro sets the `\@subtitle` tag that later will be used on the title page, in the header/footer and to set the appropriate `hyperref` tag.

```

118 \< *ct)
119 \newcommand{\@subtitle}{}
120 \newcommand{\@qrsubtitle}{}
121 \newcommand{\subtitle}[1]{%
122 \renewcommand\@subtitle{#1}
123 \iff\@qrsubtitle\@emptymacro
124 \renewcommand\@qrsubtitle{#1}
125 \fi
126 }
127 \newcommand{\qrsubtitle}[1]{%
128 \renewcommand\@qrsubtitle{#1}
129 }
130 \</ct)

```

\author The `author` tag is native to `LATEX`. It sets the `\@author` tag that will be used on the title page. However, in view of the qr trouble, we fiddle a little with it. In case the title contains accented characters, you also need to provide a qr version in full unicode (so without the traditional `LATEX` accented characters).

```

131 <*ct>
132 \newcommand{\@qrauthor}{}
133 \renewcommand{\author}[1]{%
134   \renewcommand\@author{#1}
135   \ifx\@qrauthor\@emptymacro
136   \renewcommand\@qrauthor{#1}
137   \fi
138 }
139 \newcommand{\qrauthor}[1]{%
140   \renewcommand\@qrauthor{#1}
141 }
142 </ct>

```

`\courseversion` This macro sets the `\@courseversion` tag that later will be used on the title page and in the header/footer.

```

143 <*ct>
144 \newcommand{\@courseversion}{}
145 \newcommand{\courseversion}[1]{\renewcommand{\@courseversion}{#1}}
146 </ct>

```

`\versionyear` This macro sets the `\@versionyear` tag that later will be used on the title page and in the copyright message.

```

147 <*ct>
148 \newcommand{\@versionyear}{}
149 \newcommand{\versionyear}[1]{\renewcommand{\@versionyear}{#1}}
150 </ct>

```

`\publisher` This macro sets the `\@publisher` tag that later will be used on the title page.

```

151 <*ct>
152 \newcommand{\@publisher}{Cursusdienst\
153 UNIVERSITAS\
154 Prinsesstraat 16\
155 2000 Antwerpen\
156 T +32 3 233 23 72\
157 F + 32 3 233 65 81\
158 E info@cursusdienst.be\
159 W www.cursusdienst.be}
160 \newcommand{\publisher}[1]{\renewcommand{\@publisher}{#1}}
161 </ct>

```

`\publishercode` This macro sets the `\@publishercode` tag that later will be used on the title page.

```

162 <*ct>
163 \newcommand{\@publishercode}{}
164 \newcommand{\publishercode}[1]{\renewcommand{\@publishercode}{#1}}
165 </ct>

```

`\lecturer` This macro sets many `\@lecturer` tags (max. 4) that later will be used on the title page. If there is only one teaching lecturer one can use the convenient shorthand without counter. In case the lecturer's name contains accented characters, you also need to provide a qr version in full unicode (so without the traditional L^AT_EX accented characters).

```

166 <*ct>
167 \newcommand{\@lectureri}{}
168 \newcommand{\@lecturerii}{}
169 \newcommand{\@lectureriii}{}
170 \newcommand{\@lectureriv}{}
171 \newcommand{\@qrlectureri}{}
172 \newcommand{\@qrlecturerii}{}
173 \newcommand{\@qrlectureriii}{}
174 \newcommand{\@qrlectureriv}{}
175 \newcommand{\lecturer}[1]{
176   \renewcommand{\@lectureri}{#1}
177   \ifx\@qrlectureri\emptymacro
178     \renewcommand\@qrlectureri{#1}
179   \fi
180 }
181 \newcommand{\qrlecturer}[1]{
182   \renewcommand\@qrlectureri{#1}
183 }
184 \newcommand{\lectureri}[1]{
185   \renewcommand{\@lectureri}{#1}
186   \ifx\@qrlectureri\emptymacro
187     \renewcommand\@qrlectureri{#1}
188   \fi
189 }
190 \newcommand{\qrlectureri}[1]{
191   \renewcommand\@qrlectureri{#1}
192 }
193 \newcommand{\lecturerii}[1]{
194   \renewcommand{\@lecturerii}{#1}
195   \ifx\@qrlecturerii\emptymacro
196     \renewcommand\@qrlecturerii{#1}
197   \fi
198 }
199 \newcommand{\qrlecturerii}[1]{
200   \renewcommand\@qrlecturerii{#1}
201 }
202 \newcommand{\lectureriii}[1]{
203   \renewcommand{\@lectureriii}{#1}
204   \ifx\@qrlectureriii\emptymacro
205     \renewcommand\@qrlectureriii{#1}
206   \fi
207 }
208 \newcommand{\qrlectureriii}[1]{
209   \renewcommand\@qrlectureriii{#1}

```

```

210 }
211 \newcommand{\lectureriv}[1]{
212   \renewcommand{\@lectureriv}{#1}
213   \ifx\@qrlectureriv\@emptymacro
214     \renewcommand\@qrlectureriv{#1}
215   \fi
216 }
217 \newcommand{\qrlectureriv}[1]{
218   \renewcommand\@qrlectureriv{#1}
219 }
220 </ct>

```

`\supervisor` This macro sets many `\@supervisor` tags (max. 4) that later will be used on the title page. If there is only one supervisor one can use the convenient shorthand without counter.

```

221 <*mt>
222 \newcommand{\@supervisorI}{}
223 \newcommand{\@supervisorII}{}
224 \newcommand{\@supervisorIII}{}
225 \newcommand{\@supervisorIV}{}
226 \newcommand{\supervisor}[1]{\renewcommand{\@supervisorI}{#1}}
227 \newcommand{\supervisorI}[1]{\renewcommand{\@supervisorI}{#1}}
228 \newcommand{\supervisorII}[1]{\renewcommand{\@supervisorII}{#1}}
229 \newcommand{\supervisorIII}[1]{\renewcommand{\@supervisorIII}{#1}}
230 \newcommand{\supervisorIV}[1]{\renewcommand{\@supervisorIV}{#1}}
231 </mt>

```

`\programme` This macro sets the `\@programme` tags that later will be used on the title page. The involved way of repeatedly calling the `renewcommand` to set the tags is required for inclusion of the data as QR data.

```

232 <*ct>
233 \newcommand{\@programmet}{} % type
234 \newcommand{\@programmec}{} % class
235 \newcommand{\@programmecqr}{} % class for qr code
236 \newcommand{\@programmes}{} % class
237 \newcommand{\@programmeq}{} % qualifier
238 \newcommand{\programme}[3]{%
239   \ifthenelse{\equal{#1}{BA}}{%
240     {\renewcommand{\@programmet}{Bachelor of Science in de }}{%
241     \ifthenelse{\equal{#1}{MA}}{%
242       {\renewcommand{\@programmet}{Master of Science in de }}{%
243       \ifthenelse{\equal{#1}{VP}}{%
244         {\renewcommand{\@programmet}{Vorbereidingsprogramma voor Master of Science in de }}{%
245         \ifthenelse{\equal{#1}{SP}}{%
246           {\renewcommand{\@programmet}{Schakelprogramma voor Master of Science in de }}{%
247           \ifthenelse{\equal{#1}{FREE}}{%
248             }{

```

```

249 \errmessage{Error in 1st arg of macro programme[3]: invalid
250 programme type!}}}}}%
251 %
252 \ifthenelse{\equal{#2}{IW}}{%
253 {\renewcommand{\@programme}{industri"ele wetenschappen}
254 \renewcommand{\@programmeqr}{industriële wetenschappen}}{
255 \ifthenelse{\equal{#2}{}}{%
256 {}{
257 \errmessage{{Error in 2nd arg of macro programme[3]: invalid
258 programme class!}}}}}%
259 %
260 \ifthenelse{\equal{#3}{BK}}{%
261 {\renewcommand{\@programmeq}{bouwkunde}}{%
262 \ifthenelse{\equal{#3}{CH}}{%
263 {\renewcommand{\@programmeq}{chemie}}{%
264 \ifthenelse{\equal{#3}{BCH}}{%
265 {\renewcommand{\@programmeq}{biochemie}}{%
266 \ifthenelse{\equal{#3}{EM}}{%
267 {\renewcommand{\@programmeq}{elektromechanica}}{%
268 \ifthenelse{\equal{#3}{EI}}{%
269 {\renewcommand{\@programmeq}{elektronica-ICT}}{%
270 \ifthenelse{\equal{#3}{}}{%
271 {}{%
272 \ifthenelse{\equal{#1}{FREE}}
273 {\renewcommand{\@programmeq}{#3}}{
274 \errmessage{Error in 3rd arg to macro programme[3]: invalid
275 programme qualifier}}}}}}}%
276 %
277 \ifthenelse{\equal{#2}{IW}\and\not\equal{#3}{}}
278 {\renewcommand{\@programmes}{: }}{}}
279 }
280 </ct>

```

`\course` This macro sets many `\@coursecode` and `\@course` tags (max. 4) that later will be used on the title page. If there is only one course code one can use the convenient shorthand without counter.

```

281 <*ct>
282 \newcommand{\@coursecodei}{}
283 \newcommand{\@coursecodeii}{}
284 \newcommand{\@coursecodeiii}{}
285 \newcommand{\@coursecodeiv}{}
286 \newcommand{\@coursei}{}
287 \newcommand{\@courseii}{}
288 \newcommand{\@courseiii}{}
289 \newcommand{\@courseiv}{}
290 \newcommand{\@qrcoursei}{}
291 \newcommand{\@qrcourseii}{}
292 \newcommand{\@qrcourseiii}{}
293 \newcommand{\@qrcourseiv}{}

```

```

294 \newcommand{\course}[2]{
295   \renewcommand{\@coursecodei}{#1}
296   \renewcommand{\@coursei}{#2}
297   \ifx\@qrcoursei\@emptymacro
298   \renewcommand{\@qrcoursei}{#2}
299   \fi
300 }
301 \newcommand{\qrcourse}[1]{
302   \renewcommand{\@qrcoursei}{#1}
303 }
304 \newcommand{\coursei}[2]{
305   \renewcommand{\@coursecodei}{#1}
306   \renewcommand{\@coursei}{#2}
307   \ifx\@qrcoursei\@emptymacro
308   \renewcommand{\@qrcoursei}{#2}
309   \fi
310 }
311 \newcommand{\qrcoursei}[1]{
312   \renewcommand{\@qrcoursei}{#1}
313 }
314 \newcommand{\courseii}[2]{
315   \renewcommand{\@coursecodeii}{#1}
316   \renewcommand{\@courseii}{#2}
317   \ifx\@qrcourseii\@emptymacro
318   \renewcommand{\@qrcourseii}{#2}
319   \fi
320 }
321 \newcommand{\qrcourseii}[1]{
322   \renewcommand{\@qrcourseii}{#1}
323 }
324 \newcommand{\courseiii}[2]{
325   \renewcommand{\@coursecodeiii}{#1}
326   \renewcommand{\@courseiii}{#2}
327   \ifx\@qrcourseiii\@emptymacro
328   \renewcommand{\@qrcourseiii}{#2}
329   \fi
330 }
331 \newcommand{\qrcourseiii}[1]{
332   \renewcommand{\@qrcourseiii}{#1}
333 }
334 \newcommand{\courseiv}[2]{
335   \renewcommand{\@coursecodeiv}{#1}
336   \renewcommand{\@courseiv}{#2}
337   \ifx\@qrcourseiv\@emptymacro
338   \renewcommand{\@qrcourseiv}{#2}
339   \fi
340 }
341 \newcommand{\qrcourseiv}[1]{
342   \renewcommand{\@qrcourseiv}{#1}
343 }

```

344 \langle /ct)

\backslash diploma This macro sets the \backslash @diploma tags that later will be used on the title page.

```
345  $\langle$ *mt)
346 \newcommand{\@diploma}{ERROR}
347 \newcommand{\diploma}[1]{
348   \newcommand{\MoSIW}{Master of Science in de industrile wetenschappen}
349   \renewcommand{\@diploma}{
350     \ifthenelse{\equal{#1}{MA-IW-BK}}
351       {\MoSIW: bouwkunde}{
352       \ifthenelse{\equal{#1}{MA-IW-BCH}}
353         {\MoSIW: biochemie}{
354       \ifthenelse{\equal{#1}{MA-IW-CH}}
355         {\MoSIW: chemie}{
356       \ifthenelse{\equal{#1}{MA-IW-EI}}
357         {\MoSIW: elektronica-ICT}{
358       \ifthenelse{\equal{#1}{MA-IW-EI-AE}}
359         {\MoSIW:\\elektronica-ICT, afstudeerrichting automotive engineering}{
360       \ifthenelse{\equal{#1}{MA-IW-EI-ICT}}
361         {\MoSIW:\\elektronica-ICT, afstudeerrichting ICT}{
362       \ifthenelse{\equal{#1}{MA-IW-EM-AE}}
363         {\MoSIW:\\elektromechanica, afstudeerrichting automotive engineering}{
364       \ifthenelse{\equal{#1}{MA-IW-EM-AU}}
365         {\MoSIW\\elektromechanica, afstudeerrichting automatisering}{
366       \ifthenelse{\equal{#1}{MA-IW-EM-EM}}
367         {\MoSIW\\elektromechanica, afstudeerrichting elektromechanica}
368     {\errmessage{Error in argument to macro diploma: must be one of MA-IW-XXX with XXX one of B
369 }
370 }
371  $\langle$ /mt)
```

\backslash defensedate This macro sets the \backslash @defensedate tags that later will be used on the title page.

```
372  $\langle$ *mt)
373 \newcommand{\@defensedate}{ERROR}
374 \newcommand{\defensedate}[1]{\renewcommand{\@defensedate}{#1}}
375  $\langle$ /mt)
```

\backslash defenselocation This macro sets the \backslash @defenselocation tags that later will be used on the title page.

```
376  $\langle$ *mt)
377 \newcommand{\@defenselocation}{Antwerpen}
378 \newcommand{\defenselocation}[1]{\renewcommand{\@defenselocation}{#1}}
379  $\langle$ /mt)
```

\backslash academicyear This macro sets the \backslash @academicyear tag that later will be used on the title page.

```

380 <*ct | mt>
381 \newcommand{\@academicyear}{XXX-YYYY}
382 \newcommand{\academicyear}[1]{\renewcommand{\@academicyear}{#1}}
383 </ct | mt>

```

`\copyrightnotices`

```

384 <*ct>
385 \newcommand{\@copyrightnotices}{}
386 \newcommand{\copyrightnotices}[1]{\renewcommand{\@copyrightnotices}{#1}}
387 </ct>

```

5.6 Header and Footer

The `fancyhdr` package is used to make a decent header and footer. The header and footer of the `uacoursetext` package are defined to be:

```

388 <*ct>
389 \if@twoside
390 \lhead[\thepage]{\slshape\rightmark}
391 \chead[]{}
392 \rhead[\slshape\leftmark]{\thepage}
393 \lfoot[Universiteit Antwerpen -- \@facultyacronym]{\@courseversion}
394 \cfoot[]{}
395 \rfoot[]{\@title}\@ifmtarg{\@subtitle}{}{ ---- \@subtitle}
396 \else
397 \lhead[]{\leftmark}
398 \chead[]{}
399 \rhead[]{\thepage}
400 \lfoot[]{\@courseversion}
401 \cfoot[]{UA--\@facultyacronym}
402 \rfoot[]{\@title}
403 \fi
404 </ct>

```

The header and footer of the `uamasterthesis` package are defined to be:

```

405 <*mt>
406 \if@twoside
407 \lhead[\thepage]{\slshape\rightmark}
408 \chead[]{}
409 \rhead[\slshape\leftmark]{\thepage}
410 \lfoot[Universiteit Antwerpen -- \@facultyacronym]{}
411 \cfoot[]{}
412 \rfoot[]{\@title}
413 \else
414 \lhead[]{\leftmark}
415 \chead[]{}
416 \rhead[]{\thepage}

```

```

417 \lfoot[]{}
418 \cfoot[] {UA--\@facultyacronym}
419 \rfoot[] {\@title{}}
420 \fi
421 \end{multicol}

```

Some common code remains:

```

422 \begin{multicol}
423 \renewcommand{\headrulewidth}{1pt}
424 \renewcommand{\footrulewidth}{1pt}
425 \pagestyle{fancy}
426 \raggedbottom
427 \raggedright
428 \pagenumbering{arabic}
429 \onecolumn
430 \end{multicol}

```

5.7 Copyright notice

`\@crnotice`

```

431 \begin{multicol}
432 \newcommand{\@crnotice}{
433   This document has been typeset using \LaTeX{} and the
434   \texttt{uacoursetext} class.\\
435   \@copyrightnotices
436
437   \@courseversion
438
439   CONFIDENTIAL AND PROPRIETARY.
440
441   \copyright{} \@versionyear{} Universiteit Antwerpen, All rights reserved.
442 }
443 \end{multicol}

```

5.8 Title page

`\maketitle` The title page is generated using the `\maketitle` command. As the book class from which we inherit already defines this command, we need to renew it.

The UA house style works with large-radius circles. We need some math in order to calculate center points and radiuses

Header circle: the blue header-circle on top of the page. We calculate the center point and the radius based on:

- the fact that the center point is above the page's left edge;
- the distance of the intersection points at the left and right edge of the page with respect to the top of the page, X and Y respectively;
- the width of the page W .

Some simple trigonometry leads to the elevation of the center point above the top of the page Q and the radius R :

$$R = \frac{W^2 + (X - Y)^2}{2(X - Y)} \quad (1)$$

$$Q = R - X \quad (2)$$

We labeled the variables in the code below with a prefix `ua@` and a suffix `h` (from 'header'). We also took the `paperheight` into account (the page's coordinate system origins at the left bottom. Therefore:

```

444 <*ct | mt>
445 \pgfmathsetmacro{\ua@Wh}{\paperwidth}
446 \pgfmathsetmacro{\ua@Xh}{0.2\paperheight}
447 \pgfmathsetmacro{\ua@Yh}{0.125\paperheight}
448 \pgfmathsetmacro{\ua@XMyh}{\ua@Xh-\ua@Yh}
449 \pgfmathsetmacro{\ua@Rh}{0.5*\ua@Wh/\ua@XMyh*\ua@Wh+0.5*\ua@XMyh}
450 \pgfmathsetmacro{\ua@Qh}{\ua@Rh-\ua@Xh+\paperheight}
451 </ct | mt>

```

Bottom circle A: the bottom circle with the largest radius. We calculate the center point and the radius based on:

- the fact that the center point is at a distance of $3/5$ page width from the right page edge. We denote that distance as W ;
- the fact that the horizontal bottom tangent line of the circle is at a specific height above the bottom page edge, labeled S ;
- the distance of the intersection points at the right edge of the page with respect to the horizontal bottom tangent line of the circle, denoted as $X - Y$.

Given these definitions, almost the same equations as for the header circle hold:

$$R = \frac{W^2 + (X - Y)^2}{2(X - Y)} \quad (3)$$

$$Q = R + S \quad (4)$$

with R the circle's radius, and Q the elevation of the center point above the page's bottom.

We labeled the variables in the code below with a prefix ua@ and a suffix ba (from 'bottom a'). Therefore:

```
452 <*ct | mt>
453 \pgfmathsetmacro{\ua@Wba}{0.4*\paperwidth}
454 \pgfmathsetmacro{\ua@Sba}{0.125*\paperheight}
455 \pgfmathsetmacro{\ua@XMYba}{0.02*\paperheight}
456 \pgfmathsetmacro{\ua@Rba}{0.5*\ua@Wba/\ua@XMYba*\ua@Wba+0.5*\ua@XMYba}
457 \pgfmathsetmacro{\ua@Qba}{\ua@Rba+\ua@Sba}
458 </ct | mt>
```

Bottom circle B: the bottom circle with the smallest radius. The same reasoning leads to:

```
459 <*ct | mt>
460 \pgfmathsetmacro{\ua@Wbb}{0.65*\paperwidth}
461 \pgfmathsetmacro{\ua@Sbb}{0.14*\paperheight}
462 \pgfmathsetmacro{\ua@XMYbb}{0.06*\paperheight}
463 \pgfmathsetmacro{\ua@Rbb}{0.5*\ua@Wbb/\ua@XMYbb*\ua@Wbb+0.5*\ua@XMYbb}
464 \pgfmathsetmacro{\ua@Qbb}{\ua@Rbb+\ua@Sbb}
465 </ct | mt>
```

Text alignment': The text is aligned around an imaginary vertical line around 2/5 page width distance from the left edge.

```
466 <*ct | mt>
467 \pgfmathsetmacro{\ua@ll}{0.15*\paperwidth}
468 \pgfmathsetmacro{\ua@l}{0.4*\paperwidth}
469 \pgfmathsetmacro{\ua@d}{0.1in}
470 \pgfmathsetmacro{\ua@rr}{0.85*\paperwidth}
471 </ct | mt>
```

Below, one can find the code for the title page of the uacoursetext class:

```
472 <*ct>
473 \newcommand\sprtr{ / }
474 \newcommand\myqrdata{
475 I: Universiteit Antwerpen\string\n
476 F: \@qrfaculty\string\n
477 P: \@programmet \@programmecqr \@programmeq\string\n
478 C: \@coursecodei \@qrcoursei
479 \sprtr
480 \@coursecodeii \@qrcourseii
481 \sprtr
482 \@coursecodeiii \@qrcourseiii
483 \sprtr
484 \@coursecodeiv \@cqrourseiv
485 \string\n
```

```

486 Y: \@academicyear\string\n
487 T: \@qrtitle\string\n
488 S: \@qrsubtitle\string\n
489 A: \@qrauthor\string\n
490 L: \@qrlectureri
491 \sprtr
492 \@qrlecturerii
493 \sprtr
494 \@qrlectureriii
495 \sprtr
496 \@qrlectureriv}
497 \newsavebox{\myqrcode}
498 \renewcommand\maketitle{%
499 \pagestyle{empty}
500 \begin{titlepage}
501 \if@qr
502 \savebox{\myqrcode}[2.7in][t]{
503 \begin{pspicture}(2.7in,2.7in)
504 \psbarcode{\myqrdata}{version=22 encoding=byte eclevel=M}{qrcode}
505 \end{pspicture}
506 }
507 \else
508 \savebox{\myqrcode}[2.7in][t]{}
509 \fi
510 \if@titlepagetableonly
511 Dit is een cursustekst van Universiteit Antwerpen.\
512 Het titelblad dient opgemaakt te worden met de volgende gegevens:
513 \begin{center}
514 \begin{tabular}{|l|l|}
515 \hline
516 \bfseries I & Universiteit Antwerpen \\\hline
517 \bfseries F & \@faculty \\\hline
518 \bfseries P & \parbox[t]{14cm}{\@programmet
519 \@programmec\@programmes \@programmeq} \\\hline
520 \bfseries C & \parbox[t]{14cm}{
521 \texttt{\@coursecodei} \@coursei\
522 \texttt{\@coursecodeii} \@courseii\
523 \texttt{\@coursecodeiii} \@courseiii\
524 \texttt{\@coursecodeiv} \@courseiv} \\\hline
525 \bfseries Y & \@academicyear \\\hline
526 \bfseries T & \parbox[t]{14cm}{\@title}\\\hline
527 \bfseries S & \parbox[t]{14cm}{\@subtitle}\\\hline
528 \bfseries A & \parbox[t]{14cm}{\@author}\\\hline
529 \bfseries L & \parbox[t]{14cm}{\@lectureri\
530 \@lecturerii\
531 \@lectureriii\
532 \@lectureriv} \\\hline
533 \end{tabular}
534 \end{center}
535 ~\

```

```

536   Waarbij: I = instelleng, F = faculteit, P = programma, C =
537   cursusmodule, T = titel, S = subtitel, A = auteur(s), L =
538   lesgever(s)\~\
539   Deze informatie is ook gecodeerd in de onderstaande QR-code.\
540   \if@qr
541   \vspace*{1cm}
542   \usebox{\myqrcode}
543   \fi
544   \else
545   \AddToShipoutPicture*{%
546     \setlength{\unitlength}{1cm}
547     \put(0,0){%
548       \begin{tikzpicture}[inner sep=0pt]
549         \clip (0,0) rectangle(\paperwidth,\paperheight);
550         \if@titlepagenoartwork\else
551         \filldraw [uacorpbord] (0.55\paperwidth,\ua@Qba pt) circle (\ua@Rba pt);
552         \filldraw [white] (0.35\paperwidth,\ua@Qbb pt) circle (\ua@Rbb pt);
553         \filldraw [uacorpblue] (0,\ua@Qh pt) circle (\ua@Rh pt);
554         \path
555         (0.95\paperwidth,0.1\paperheight)
556         node [anchor=north east] {
557           \includegraphics[width=0.25\paperwidth]{ua_color}};
558         \fi
559         \path
560         (\ua@l pt -\ua@d pt,0.77\paperheight)
561         node [anchor=north east, text width=0.35\paperwidth] {
562           \begin{flushright}
563             UNIVERSITEIT ANTWERPEN\~\
564             Academiejaar \@academicyear
565           \end{flushright}}
566         (\ua@l pt +\ua@d pt,0.65\paperheight)
567         node [anchor = north west, text width = 0.55\paperwidth] {
568           {\large \@faculty{}}\}[0.05\paperheight]
569           {\huge \bf \@title{}}\}[2ex]
570           {\Large \bf \@subtitle{}}\}[3ex]
571           {\Large \bf \@author{}}}
572         (\ua@l pt +\ua@d pt,0.45\paperheight)
573         node [anchor = north west, text width = 0.55\paperwidth] {
574           \@lectureri~\
575           \@lecturerii~\
576           \@lectureriii~\
577           \@lectureriv}
578         (\ua@l pt +\ua@d pt,0.35\paperheight)
579         node [anchor = north west, text width = 0.55\paperwidth] {
580           {\bf \@programmet \ \@programmec\@programmes \@programmeq}}
581         (\ua@l pt +\ua@d pt,0.30\paperheight)
582         node [anchor = north west, text width = 0.55\paperwidth] {
583           \texttt{\@publishercode}\~\
584           \texttt{\@coursecodei{}} \@coursei~\
585           \texttt{\@coursecodeii{}} \@courseii~\

```

```

586         \texttt{\@coursecodeiii{}} \@courseiii~\
587         \texttt{\@coursecodeiv{}} \@courseiv}
588         (\ua@l pt - 2\ua@d pt, 0.368\paperheight)
589         node [anchor = north east, text width = 0.35\paperwidth] {
590             {\normalsize\begin{flushright}
591                 \@publisher{
592                     \end{flushright}}};
593         \end{tikzpicture}
594     }
595 }%
596 \phantom{Do not remove: this causes an empty title page to be
597 generated}
598 \fi
599 \end{titlepage}%
600 \clearpage
601 \ifcopyright
602 \AddToShipoutPicture{
603     \put(0,0){%
604         \begin{tikzpicture}[inner sep=0pt]
605             \clip (0,0) rectangle(\paperwidth,\paperheight);
606             \path
607                 (0.5\paperwidth,0.5\paperheight)
608                 node [anchor=center, rotate=55, color=lightgray] {
609                     \Huge Copyright Universiteit Antwerpen, All Rights Reserved
610                 };
611             \end{tikzpicture}
612         }
613     }
614 \fi
615 \vspace*{\stretch{1}}
616 \@crnotice
617 \clearpage
618 \setcounter{footnote}{0}%
619 \global\let\thanks\relax
620 \global\let\maketitle\relax
621 \global\let\@thanks\@empty
622 \global\let\title\relax
623 \global\let\author\relax
624 \global\let\date\relax
625 \global\let\and\relax
626 \pagestyle{fancy}
627 \thispagestyle{empty}
628 }
629 </ct>

```

Below, one can find the code for the final page of the `uacoursetext` class:

```

630 <*ct>
631 \newcommand\makefinalpage{
632     \if@titlepagetableonly

```

```

633 \else
634 \if@qr
635 \savebox{\myqrcode}{
636   \begin{pspicture}(2.7in,2.7in)
637     \psbarcode{\myqrdata}{version=22 encoding=byte elevel=M}{qrcode}
638   \end{pspicture}
639 }
640 \else
641 \savebox{\myqrcode}[2.7in][t]{
642 \fi
643 \cleardoublepage
644 \thispagestyle{empty}
645 \AddToShipoutPicture*{%
646   \setlength{\unitlength}{1cm}
647   \put(0,0){%
648     \begin{tikzpicture}[inner sep=0pt]
649       \clip (0,0) rectangle(\paperwidth,\paperheight);
650       \if@titlepagenoartwork\else
651       \filldraw [uacorpblue] (\paperwidth,\ua@Qh pt) circle (\ua@Rh pt);
652       \fi
653       \path
654       (0.1\paperwidth,0.1\paperheight)
655       node [anchor = south west, text width = 0.6\paperwidth] {
656         CONFIDENTIAL AND PROPRIETARY\~\
657         \copyright{} \@versionyear{} Universiteit Antwerpen,
658         All rights reserved.}
659       (0.9\paperwidth,0.1\paperheight)
660       node [anchor = south east] {
661         \if@qr
662         \usebox{\myqrcode}
663         \fi
664       };
665     \end{tikzpicture}
666   }
667 }
668 \phantom{Do not remove: this causes an empty final page to be
669 generated}
670 \fi
671 }
672 </ct>

```

And next, the code for the title page of the uamasterthesis class:

```

673 <*mt>
674 \renewcommand\maketitle{%
675   \pagestyle{empty}
676   \begin{titlepage}
677     \AddToShipoutPicture*{%
678       \setlength{\unitlength}{1cm}
679       \put(0,0){%

```

```

680     \begin{tikzpicture}[inner sep=0pt]
681         \clip (0,0) rectangle(\paperwidth,\paperheight);
682         \if@titlepage artwork\else
683             \filldraw [lightgray] (0.55\paperwidth,\ua@Qba pt) circle (\ua@Rba pt);
684             \filldraw [white] (0.35\paperwidth,\ua@Qbb pt) circle (\ua@Rbb pt);
685             \filldraw [lightgray] (0,\ua@Qh pt) circle (\ua@Rh pt);
686             \path
687                 (0.95\paperwidth,0.1\paperheight)
688                 node [anchor=north east] {
689                     \includegraphics[width=0.25\paperwidth]{ua_color}};
690             \fi
691             \path
692                 (\ua@ll pt,0.77\paperheight)
693                 node [anchor=north west, text width=0.7\paperwidth] {
694                     UNIVERSITEIT ANTWERPEN\~\
695                     Academiejaar \@academicyear\~\
696                     {\large \@faculty}}\~\
697                     Masterproef\@[0.05\paperheight]
698                     {\Large \bf \@title}}
699                 (\ua@ll pt,0.55\paperheight)
700                 node [anchor = north west, text width = 0.7\paperwidth] {
701                     {\large \bf \@author}}\~\~\
702                     \begin{tabular}{@{}p{2.5cm}p{11cm}}
703                         \textbf{Promotoren:}
704                         & \@supervisor i \
705                         & \@supervisor ii \
706                         & \@supervisor iii \
707                         & \@supervisor iv
708                     \end{tabular}
709                 }
710                 (\ua@ll pt,0.3\paperheight) node [anchor=north west, text width = 0.7\paperwidth]{%
711                     Proefschrift tot het behalen van de graad van\
712                     \@diploma\
713                     \@defenselocation, \@defensedate
714                 };
715     \end{tikzpicture}
716 }
717 }%
718 \phantom{Do not remove: this causes an empty title page to be
719 generated}
720 \end{titlepage}%
721 \clearpage
722 \setcounter{footnote}{0}%
723 \global\let\thanks\relax
724 \global\let\maketitle\relax
725 \global\let\@thanks\@empty
726 \global\let\title\relax
727 \global\let\author\relax
728 \global\let\date\relax
729 \global\let\and\relax

```

```

730 \pagestyle{fancy}
731 \thispagestyle{empty}
732 % \end{tikzpicture}
733 % }
734 % }%
735 % \phantom{Do not remove: this causes an empty title page to be generated}
736 % \end{titlepage}%
737 % \if@twoside
738 % \cleardoublepage
739 % \else
740 % \clearpage
741 % \fi
742 % \setcounter{footnote}{0}%
743 % \global\let\thanks\relax
744 % \global\let\maketitle\relax
745 % \global\let\@thanks\@empty
746 % \global\let\title\relax
747 % \global\let\author\relax
748 % \global\let\date\relax
749 % \global\let\and\relax
750 % \pagestyle{fancy}
751 % \thispagestyle{empty}
752 }
753 </mt>

```

Below, one can find the code for the final page of the `uamasterthesis` class:

```

754 <*mt>
755 \newcommand\makefinalpage{
756 \cleardoublepage
757 \thispagestyle{empty}
758 \AddToShipoutPicture*{%
759 \setlength{\unitlength}{1cm}
760 \put(0,0){%
761 \begin{tikzpicture}[inner sep=0pt]
762 \clip (0,0) rectangle(\paperwidth,\paperheight);
763 \if@titlepagenoartwork\else
764 \filldraw [lightgray] (\paperwidth,\ua@Qh pt) circle (\ua@Rh pt);
765 \fi
766 \end{tikzpicture}
767 }
768 }
769 \phantom{Do not remove: this causes an empty final page to be
770 generated}
771 }
772 </mt>

```

5.9 References

```

773 <*ct | mt>
774 \IfFileExists{varioref.sty}{\RequirePackage{varioref}}{}
775 </ct | mt>
776 %
777 <*ct>
778 \IfFileExists{hyperref.sty}{
779     \RequirePackage{hyperref}
780     \hypersetup{
781         backref=true,
782         breaklinks=true,
783         colorlinks=true,
784         citecolor=black,
785         filecolor=black,
786         hyperindex=true,
787         linkcolor=black,
788         pageanchor=true,
789         pagebackref=true,
790         pagecolor=black,
791         pdfpagemode=UseOutlines,
792         urlcolor=black
793     }
794     \AtBeginDocument{
795         \hypersetup{
796             pdftitle={\@title},
797             pdfsubject={\@subtitle},
798             pdfauthor={\@author}
799         }
800     }
801 }{}
802 </ct>
803 %
804 %
805 <*mt>
806 \IfFileExists{hyperref.sty}{
807     \RequirePackage{hyperref}
808     \hypersetup{
809         backref=true,
810         breaklinks=true,
811         colorlinks=true,
812         citecolor=black,
813         filecolor=black,
814         hyperindex=true,
815         linkcolor=black,
816         pageanchor=true,
817         pagebackref=true,
818         pagecolor=black,
819         pdfpagemode=UseOutlines,
820         urlcolor=black
821     }
822     \AtBeginDocument{

```

```

823     \hypersetup{
824         pdftitle={\@title},
825         pdfsubject={Master's Thesis},
826         pdfauthor={\@author}
827     }
828 }
829 }{}
830 </mt>

```

Change History

v1.0	work	13
General: Added option qr	Added option titlepagetableonly	13
Added option titlepagenoart-	Consolidated uacoursetext class	1

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols		
"	\@courseiii	\@facultyacronym
..... 253	. 288, 326, 523, 586	..... 74, 78,
\@academicyear	\@courseiv	393, 401, 410, 418
.... 381, 382,	. 289, 336, 524, 587	\@ifmtarg
486, 525, 564, 695	\@courseversion	..... 395
\@author	144,	\@lectureri
.. 134, 528,	145, 393, 400, 437	... 167,
571, 701, 798, 826	\@cqcourseiv	176, 185, 529, 574
\@copyrightnotices	..... 484	\@lecturerii
.... 385, 386, 435	\@crnotice	.....
\@copyrighttrue	... <u>431</u> , 616	. 168, 194, 530, 575
.... 3	\@defensedate	\@lectureriii
\@coursecodei	.....	.....
.... 282, 295,	.... 373, 374, 713	. 169, 203, 531, 576
305, 478, 521, 584	\@defenselocation	\@lectureriv
\@coursecodeii	.... 377, 378, 713	.....
283,	\@diploma	. 170, 212, 532, 577
315, 480, 522, 585	. 346, 349, 712	\@programme
\@coursecodeiii	\@empty	.....
284,	... 621, 725, 745	. 234, 253, 519, 580
325, 482, 523, 586	\@emptymacro	\@programmeqr
\@coursecodeiv	... 47,	....
285,	110, 123, 135,	.... 235, 254, 477
335, 484, 524, 587	177, 186, 195,	\@programmeq
\@coursei	204, 213, 297,	.....
.... 286,	307, 317, 327, 337	. 237, 261, 263,
296, 306, 521, 584	\@faculty	265, 267, 269,
\@courseii	.....	273, 477, 519, 580
.....	. 75, 79, 81, 83,	\@programmes
. 287, 316, 522, 585	85, 87, 89, 91,	.....
	93, 95, 97, 99,	. 236, 278, 519, 580
	101, 517, 568, 696	\@programmet
		.. 233,
		240, 242, 244,

246, 477, 518, 580	\\ 152–158,	\courseversion <u>143</u>
\@publisher 152, 160, 591	359, 361, 363,	
\@publishercode . . .	365, 367, 434,	D
. . . . 163, 164, 583	511, 516, 517,	\date 624, 728, 748
\@qrauthor . . . 132,	519, 521–532,	\DeclareOption 3, 5, 9, 11
135, 136, 140, 489	535, 538, 539,	\defensedate <u>372</u>
\@qrcoursei . . . 290,	563, 568–570,	\defenselocation . . <u>376</u>
297, 298, 302,	574–576, 580,	\definecolor 65–71
307, 308, 312, 478	583–586, 656,	\diploma <u>345</u>
\@qrcourseii . . 291,	694–697, 701,	
317, 318, 322, 480	704–706, 711, 712	E
\@qrcourseiii . 292,		\else . . . 34, 39, 396,
327, 328, 332, 482	A	413, 507, 544,
\@qrcourseiv	\academicyear <u>380</u>	550, 633, 640,
. 293, 337, 338, 342	\addtolength 20	650, 682, 739, 763
\@qrfaculty 76, 476	\AddToShipoutPicture	\end . . 505, 533, 534,
\@qrlectureri . 171,	. . . . . 545,	565, 592, 593,
177, 178, 182,	602, 645, 677, 758	599, 611, 638,
186, 187, 191, 490	\and . . 277, 625, 729, 749	665, 708, 715,
\@qrlecturerii 172,	\AtBeginDocument . .	720, 732, 736, 766
195, 196, 200, 492	. . . . . 794, 822	\equal . . . 79, 81, 83,
\@qrlectureriii 173,	\author <u>131</u> , 623, 727, 747	85, 87, 89, 91,
204, 205, 209, 494		93, 95, 97, 99,
\@qrlectureriv 174,	B	101, 239, 241,
213, 214, 218, 496	\baselineskip 20	243, 245, 247,
\@qrsubtitle . . 120,	\begin 500,	252, 255, 260,
123, 124, 128, 488	503, 513, 514,	262, 264, 266,
\@qrtitle 107,	548, 562, 590,	268, 270, 272,
110, 111, 115, 487	604, 636, 648,	277, 350, 352,
\@qrtrue 5	676, 680, 702, 761	354, 356, 358,
\@subtitle 119, 122,	\bf 569–571, 580, 698, 701	360, 362, 364, 366
395, 527, 570, 797	\bfseries 516–	\errmessage . . . 103,
\@supervisor	518, 520, 525–529	249, 257, 274, 368
. 222, 226, 227, 704		\ExecuteOptions . . . 14
\@supervisorii	C	
. . . . 223, 228, 705	\cfoot 394, 401, 411, 418	F
\@supervisoriii . . .	\chead 391, 398, 408, 415	\facultyacronym . . . <u>73</u>
. . . . 224, 229, 706	\cleardoublepage . .	\fi 41,
\@supervisoriv . . . .	. . . . 643, 738, 756	42, 59, 112, 125,
. . . . 225, 230, 707	\clearpage	137, 179, 188,
\@thanks . . 621, 725, 745	. 600, 617, 721, 740	197, 206, 215,
\@title 109, 395, 402,	\clip 549,	299, 309, 319,
412, 419, 526,	605, 649, 681, 762	329, 339, 403,
569, 698, 796, 824	\copyright . . . 441, 657	420, 509, 543,
\@titlepagenoartworktrue	\copyrightnotices . <u>384</u>	558, 598, 614,
. 9	\course <u>281</u>	642, 652, 663,
\@titlepagetableonlytrue	\coursei 304	670, 690, 741, 765
. 11	\courseii 314	\filldraw . 551–553,
\@versionyear	\courseiii 324	651, 683–685, 764
. 148, 149, 441, 657	\courseiv 334	\footrulewidth 424

G			
<code>\global</code> . . .	619–625, 723–729, 743–749	<code>\lectureri</code>	184
		<code>\lecturerii</code>	193
		<code>\lectureriii</code>	202
		<code>\lectureriv</code>	211
H		<code>\leftmark</code>	
<code>\headrulewidth</code>	423	. 392, 397, 409, 414	
<code>\hline</code>	515–517, 519, 524–528, 532	<code>\let</code>	619–625, 723–729, 743–749
<code>\Huge</code>	609	<code>\lfoot</code> 393, 400, 410, 417	
<code>\huge</code>	569	<code>\lhead</code> 390, 397, 407, 414	
<code>\hypersetup</code>		<code>\LoadClassWithOptions</code>	
. 780, 795, 808, 823		. . . . .	16
I		M	
<code>\if@copyright</code> . . .	2, 601	<code>\makefinalpage</code> 631, 755	
<code>\if@qr</code>	4, 56, 501, 540, 634, 661	<code>\maketitle</code>	<u>444</u>
<code>\if@titlepagenoartwork</code>		<code>\MoSIW</code> 348, 351, 353, 355, 357, 359, 361, 363, 365, 367	
.	8, 550, 650, 682, 763	<code>\myqrcode</code>	
<code>\if@titlepagetableonly</code>		. 497, 502, 508, 542, 635, 641, 662	
.	10, 510, 632	<code>\myqrdata</code> . 474, 504, 637	
<code>\if@twoside</code> 389, 406, 737			
<code>\IfFileExists</code>		N	
.	774, 778, 806	<code>\n</code> . . .	475–477, 485–489
<code>\ifluatex</code>	30	<code>\newif</code>	2, 4, 8, 10
<code>\ifthenelse</code> 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 239, 241, 243, 245, 247, 252, 255, 260, 262, 264, 266, 268, 270, 272, 277, 350, 352, 354, 356, 358, 360, 362, 364, 366		<code>\newsavebox</code>	497
<code>\ifx</code> . .	110, 123, 135, 177, 186, 195, 204, 213, 297, 307, 317, 327, 337	<code>\normalsize</code>	590
<code>\ifxetex</code>	35	<code>\not</code>	277
<code>\includegraphics</code> . .		O	
.	557, 689	<code>\onecolumn</code>	429
L		P	
<code>\Large</code>	570, 571, 698	<code>\pagenumbering</code>	428
<code>\large</code>	568, 696, 701	<code>\pagestyle</code> 425, 499, 626, 675, 730, 750	
<code>\LaTeX</code>	433	<code>\paperheight</code>	
<code>\lecturer</code>	<u>166</u>	. 446, 447, 450, 454, 455, 461, 462, 549, 555, 560, 566, 568, 572, 578, 581, 588, 605, 607, 649, 654, 659, 681, 687, 692, 697, 699, 710, 762	
		<code>\paperwidth</code>	
		. 445, 453, 460,	
		467, 468, 470, 549, 551, 552, 555, 557, 561, 567, 573, 579, 582, 589, 605, 607, 649, 651, 654, 655, 659, 681, 683, 684, 687, 689, 693, 700, 710, 762, 764	
		<code>\parbox</code> 518, 520, 526–529	
		<code>\parindent</code>	19
		<code>\parskip</code>	20
		<code>\path</code>	554, 559, 606, 653, 686, 691
		<code>\pgfmathsetmacro</code> . .	
		. . . . .	445– 450, 453–457, 460–464, 467–470
		<code>\phantom</code>	596, 668, 718, 735, 769
		<code>\ProcessOptions</code> . . .	15
		<code>\programme</code>	<u>232</u>
		<code>\psbarcode</code> . . .	504, 637
		<code>\publisher</code>	<u>151</u>
		<code>\publishercode</code> . . .	<u>162</u>
		<code>\put</code>	547, 603, 647, 679, 760
		Q	
		<code>\qrauthor</code>	139
		<code>\qrcourse</code>	301
		<code>\qrcoursei</code>	311
		<code>\qrcourseii</code>	321
		<code>\qrcourseiii</code>	331
		<code>\qrcourseiv</code>	341
		<code>\qrlecturer</code>	181
		<code>\qrlectureri</code>	190
		<code>\qrlecturerii</code>	199
		<code>\qrlectureriii</code>	208
		<code>\qrlectureriv</code>	217
		<code>\qrsubtitle</code>	127
		<code>\qrtitle</code>	114
		R	
		<code>\raggedbottom</code>	426
		<code>\raggedright</code>	427
		<code>\relax</code>	619, 620, 622–625, 723,

724, 726–729,	<code>\rfoot</code> 395, 402, 412, 419	<code>\title</code> <u>106</u> , 622, 726, 746
743, 744, 746–749	<code>\rhead</code> 392, 399, 409, 416	
<code>\renewcommand</code> 78, 79,	<code>\rightmark</code> ... 390, 407	
81, 83, 85, 87,		U
89, 91, 93, 95,		<code>\ua@d</code> . 469, 560, 566,
97, 99, 101, 108,		572, 578, 581, 588
109, 111, 115,	S	<code>\ua@l</code> . 468, 560, 566,
122, 124, 128,	<code>\savebox</code>	572, 578, 581, 588
133, 134, 136,	. 502, 508, 635, 641	<code>\ua@ll</code> 467, 692, 699, 710
140, 145, 149,	<code>\setcounter</code>	<code>\ua@Qba</code> ... 457, 551, 683
160, 164, 176,	. 21, 618, 722, 742	<code>\ua@Qbb</code> ... 464, 552, 684
178, 182, 185,	<code>\setlength</code>	<code>\ua@Qh</code> 450,
187, 191, 194,	. 19,	553, 651, 685, 764
196, 200, 203,	546, 646, 678, 759	<code>\ua@Rba</code> 456, 457, 551, 683
205, 209, 212,	<code>\setmainfont</code>	<code>\ua@Rbb</code> 463, 464, 552, 684
214, 218, 226–	. 390, 392, 407, 409	<code>\ua@Rh</code> 449, 450,
230, 240, 242,	<code>\sprtr</code> 473, 479, 481,	553, 651, 685, 764
244, 246, 253,	483, 491, 493, 495	<code>\ua@rr</code> 470
254, 261, 263,	<code>\stretch</code> 615	<code>\ua@Sba</code> 454, 457
265, 267, 269,	<code>\string</code> 475–477, 485–489	<code>\ua@Sbb</code> 461, 464
273, 278, 295,	<code>\subtitle</code> <u>118</u>	<code>\ua@Wba</code> 453, 456
296, 298, 302,	<code>\supervisor</code> <u>221</u>	<code>\ua@Wbb</code> 460, 463
305, 306, 308,	<code>\supervisorI</code> 227	<code>\ua@Wh</code> 445, 449
312, 315, 316,	<code>\supervisorii</code> 228	<code>\ua@Xh</code> 446, 448, 450
318, 322, 325,	<code>\supervisoriii</code> 229	<code>\ua@XMYba</code> 455, 456
326, 328, 332,	<code>\supervisoriv</code> 230	<code>\ua@XMYbb</code> 462, 463
335, 336, 338,		<code>\ua@XMYh</code> 448, 449
342, 349, 374,	T	<code>\ua@Yh</code> 447, 448
378, 382, 386,	<code>\textbf</code> 703	<code>\unitlength</code>
423, 424, 498, 674	<code>\texttt</code> 434,	. 546, 646, 678, 759
<code>\RequirePackage</code> ...	521–524, 583–587	<code>\usebox</code> 542, 662
. 24, 27–	<code>\thanks</code> ... 619, 723, 743	<code>\usepackage</code> 40
29, 31, 36, 45,	<code>\thepage</code> .. 390, 392,	V
46, 50–53, 57,	399, 407, 409, 416	<code>\versionyear</code> <u>147</u>
58, 62, 774, 779, 807	<code>\thispagestyle</code> 627,	<code>\vspace</code> 541, 615
	644, 731, 751, 757	