The \texttt{uantwerpendocs} classes\footnote{This document correponds to \texttt{uantwerpendocs} 4.0, dated 2021/07/11.} \footnote{Thanks to Paul Levrie for testing and proofreading.} \footnote{For readability the class names have been abbreviated by omitting the \texttt{uantwerpen} prefix.}

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2021/07/11

1 Introduction

This package implements the house style of Universiteit Antwerpen (version 2021) for letters, course texts, master/PhD theses, reports and slides (beamer). It also implements a class to format exams. Using these class files will make it easy for you to make and keep your course texts and theses compliant to this version and future versions of the UAntwerpen house style.

If you think (1) there’s an error in compliancy w.r.t. the house style, (2) there’s a feature missing in this class or theme file, or (3) there’s a bug in this package, please, contact me through e-mail (walter.daems@uantwerpen.be) about the issue. I’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 \texttt{coursetext}, \texttt{bamathesis} and \texttt{phdthesis} classes\footnote{This document correponds to \texttt{uantwerpendocs} 4.0, dated 2021/07/11.} are an extension of the standard \LaTeX{} \texttt{book} class. They are intended to be used for writing course texts and master’s or PhD theses. They provides a title page that is compliant to the UAntwerpen house style, and they also typeset the rest of your document appropriately.

The \texttt{report} class is derived from the standard \LaTeX{} \texttt{report} class. It is intended for writing generic (e.g. research or educational) reports. The \texttt{letter} class is derived from the standard \LaTeX{} \texttt{letter} class. It is intended to be used for writing business letters. It is compliant to the house style and allows for using windowed envelopes of the DL format, with right-aligned window.

The \texttt{exam} class is derived from the standard \LaTeX{} \texttt{article} class.
The slides come under the form of a custom beamer theme.

Using this package, requires the following packages:

- the \texttt{adjustbox} package
- the \texttt{babel} package
- the \texttt{background} package
- the \texttt{color} package
- the \texttt{environ} package
- the \texttt{eso-pic} package
- the \texttt{etooblox} package
- the \texttt{exp13} package
- the \texttt{fancyhdr} package
- the \texttt{geometry} package
- the \texttt{graphicx} package
- the \texttt{iftex} package
- the \texttt{ifthen} package
- the \texttt{tikz} package
- the \texttt{ulem} package
- the \texttt{xparse} package

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

You will notice that as of version 4.0 \texttt{exp13} and \texttt{xparse} are part of the game. Indeed, the uantwerpendocs package will be slowly refactored to \LaTeXX to prepare for a package that is easier to maintain. However, the \LaTeXX constructs are never exposed to the user of the classes. So: don’t worry about it!
3 A note on fonts

The house style of the University of Antwerp recommends using

- Prenton RP Pro for the logos and sublogos; all the logoware is included in this package, so nothing to worry about.

- ITC Officina Sans for posters, titlepages, cards a.s.o. This font is not included in this package and is not a part of the \LaTeX standard fonts. However, if you have a valid license, for this font, I can help you to set it up, such that you can typeset proper title pages for course texts, PhD theses and the like. Just send me an e-mail.

- Calibri for office-like documents. Just load the \texttt{\fontspec} package and issue a \texttt{\setmainfont{Calibri}} and you’re all set.

Adhering to these fonts is recommended, but not enforced. Personally, I always use a Palatine serif font for my courses. I did not find any better (free) font yet. My second favorite is still the original computer modern font by Donald E. Knuth. You are reading it right now.

4 Portability

These class files should be ready to use with all common modern \LaTeX compilers (PDF\LaTeX, Xe\LaTeX, Lua\LaTeX, …) from the major \TeX-distributions (Te\TeX, TeXLive, MiK\TeX). However, using an old \LaTeX + dvips setup is likely to get you into font problems. Advice: ditch the route via dvi. If you experience other problems, please inform the author.

5 Usage

5.1 Basic Usage

Use the templates provided below. Remember to \LaTeX your source file twice. Especially in the beamer theme some features require to run \LaTeX twice in order to get the position of some elements correct.

5.1.1uantwerpencoursetext class

Use the following harness for your \LaTeX course text:

\begin{verbatim}
\documentclass[ti,a4paper]{uantwerpencoursetext}
\usepackage{<include any packages you require here>}
\end{verbatim}
As of version 4.0:

- the faculty is specified as an option to the `\documentclass` construct. You can find the available options in section 5.2.
- you are responsible yourself to provide the correct degree description! Maintaining the a correct list of UAntwerpen bachelor and master programs with all their specializations is beyond my ambition.

### 5.1.2 `uantwerpenbamathesis` class

Use the following harness for your L\TeX\ bachelor or master's thesis:

```latex
\documentclass[t1,a4paper]{uantwerpenbamathesis}
\usepackage{<include any packages you require here>}
\title{<put your title here>}
\author{<put your name here>}
\supervisor{<put supervisor's name(s) here>}{<affiliation goes here>}
\supervisor{<put supervisor's name(s) here>}{<affiliation goes here>}
\supervisor{<put supervisor's name(s) here>}{<affiliation goes here>}
\supervisor{<put supervisor's name(s) here>}{<affiliation goes here>}

\academicyear{<XXXX-YYYY>}
\begin{document}
```

```
\maketitle
% put your LaTeX code here
\finalpage
\end{document}

The available faculty options are listed in a table on page 8.

5.1.3 uantwerpenletter class

Use the following harness for your LaTeX letter:

\documentclass[a4paper,ti]{uantwerpenletter}
% setup fonts according to your specific TeX compiler setup
\usepackage{<include any packages you require here>}
% \logo{} only specify if you want to use your unit's logo
\sender{<put your name here>}{<put your title/role here>}
\unit{<put your unit here>}
\address{<put your multi-line address here>}
\email{<user name>}{<domain name>}
\phone{<put your phone number here, start with +32>}
\fax{<put your fax number here, start with +32>}
\mobile{<put your mobile number here, start with +32>}
\returnaddress{<put your single-line return address here>}
\to{<name of the addressee goes here>}
\toorganization{<name of the organization goes here>}
\toaddress{<multi-line address of the addressee goes here>}
\date{<specify date - otherwise today>}
\subject{<specify subject>}
\begin{document}
\maketitle % generates top of the letter
\opening{Dear <name>}
<write your letter here>
\closing{Kind regards,}
\carboncopy{<put CC people here>}
\enclosed{<put reference to enclosed documents here>}

The available faculty options are listed in a table on page [8]. You may use lists in the \carboncopy and \enclosed commands. The spacing will be compact.

5.1.4 uantwerpenphdthesis class

You may want to use common fonts
\usepackage{<include any additional packages you require here>}

\title{<put your title here>}
\author{<put your name here>}
\affiliation{<put your affiliation here>}
\address{<put your contact details here>}

\supervisor{<put supervisor's name here>}{<affiliation goes here>}
\supervisor{<put supervisor's name here>}{<affiliation goes here>}

\jurychairman{<put chairman's name here>}{<affiliation goes here>}
\jurymember{<put member's name here>}{<affiliation goes here>}
\jurymember{<put member's name here>}{<affiliation goes here>}
\jurymember{<put member's name here>}{<affiliation goes here>}

\degree{<put official degree name here>}
\defenselocation{<put location of defense here>}
\defensedate{<put defense year here>}
\titlepageimage{<set file name of title page image here>}

\isbn{<put ISBN13 number here>}
\depot{<put Depot number here>}

\begin{document}
\maketitle
\frontmatter
\tableofcontents
\mainmatter

% write your PhD text here

\appendix

% write appendix material here

\makefinalpage
\end{document}
The available faculty options are listed in a table on page 8.

5.1.5 uantwerpenreport class

\documentclass[ti,10pt,twoside,openright,filled]{uantwerpenreport}
\usepackage{<include any additional packages you require here>}
\title{<put your title here>}
\author{<put your name here>}
\affiliation{<put your affiliation here>}
\address{<put your contact details here>}
\maketitle
\frontmatter
\tableofcontents
\mainmatter
\% write your PhD text here
\appendix
\% write appendix material here
\makefinalpage
\end{document}

The available faculty options are listed in a table on page 8.

5.1.6 uantwerpenbeamer theme

\documentclass[aspectratio=1610]{beamer}
\usetheme[ti]{uantwerpen}
\usepackage[dutch]{babel}
\title{This is your title}
\subtitle{This is your subtitle - omit if you don’t need this}
\date{This is the date - will be today if omitted}
\author{This is your name - omit if you don’t need this}
\begin{document}
5.2 The class options explained

The classes have several options. They are listed below. After every option, it has been indicated to which class the option applies (between square brackets, without prefix uantwerpen).

<table>
<thead>
<tr>
<th>Option</th>
<th>Faculty</th>
</tr>
</thead>
</table>
| be     | Faculty of Business and Economics  
         | Faculteit Bedrijfs- en Economie  |
| fbd    | Faculty of Pharmaceutical, Biomedical and Veterinary Sciences  
         | Faculteit Farmaceutische, Biomedische en Diergeneeskundige Wetenschappen  |
| ggv    | Faculty of Medicine and Health Sciences  
         | Faculteit Geneeskunde en Gezondheidswetenschappen  |
| lw     | Faculty of Arts  
         | Faculteit Letteren en Wijsbegeerte  |
| ow     | Faculty of Design Sciences  
         | Faculteit Ontwerpwetenschappen  |
| re     | Faculty of Law  
         | Faculteit Rechten  |
| sw     | Faculty of Social Sciences  
         | Faculteit Sociale Wetenschappen  |
| ti     | Faculty of Applied Engineering  
         | Faculteit Toegepaste Ingenieurswetenschappen  |
| we     | Faculty of Science  
         | Faculteit Wetenschappen  |
| iob    | Institute of Development Policy  
         | Instituut voor Ontwikkelingsbeleid- en beheer |

You can specify the correct faculty using the following options: This will activate the correct color scheme and logoset.

copyright  [coursetext]  
This option 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;

examiner [exam]
This option allows to set the exam class in examiner mode, mentioning the examiner mode on every page (as regular text in the header and also in a watermark) to make sure you never hand out that copy to students and suppressing the fillout pages.

filled [letter / coursetext / bamathesis / phdthesis / report]
This option causes the text to be filled (simultaneous left and right alignment). Though this setting is not recommended, it is provided because the default \raggedright cannot be undone. The filled option prevents the \raggedright from being issued. However, if you care about the typographic readability of your text, you shouldn’t use this option.

Common sets of options depend on the purpose:

- to make a text ready for electronic distribution: a4paper, copyright.
- to make a camera-ready text (for printing): a4paper
- to make a letter: no options (filling a letter is discouraged)
- to make an exam: no options (filling an exam is discouraged)
- to make a PhD text: twoside, openright and (optionally) filled
- to make a report: twoside, openright and (optionally) filled

5.3 The macros explained

5.3.1 Macros for the coursetext, bamathesis, phdthesis classes

\academicyear [coursetext / bamathesis] (mandatory)
Use this macro to specify the academic year in full, i.e. in the form XXXX-YYYY.

\author [coursetext / bamathesis / phdthesis / report ] (mandatory)
This macro sets the author of the document. It also sets the pdfauthor tag of the hyperref package (if it is loaded), so that the PDF-document meta-information is correct.

\copyrightnotices [coursetext / report] (optional)
Use this macro to specify additional copyright notice messages to appear in the copyright notice on the bottom of page 2 of your course text.

\course [coursetext] (mandatory)
Code (first argument) and name (second argument) of the curriculum course this coursematerial or exam belongs to. The code should be of the form: TNNNFFFAAA, with:
<table>
<thead>
<tr>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| 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.

\courseversion [coursertext] (optional)
This macro indicates which version of the course this is.

\defensedate [bamathesis / phdthesis] (mandatory)
Date of the bamathesis defense in Dutch, in the form ‘month year’, e.g. “juni 2012”. In case of a PhD thesis, only the year should be mentioned.

\defenselocation [bamathesis / phdthesis] (optional)
Location of the defense. Defaults to “Antwerpen”.

\diploma [bamathesis] (discontinued)
This macro is no longer used. Use \degree{} instead.

\lecturer [coursertext] (mandatory)
You can add one or more lecturers to the course notes (in Dutch: titularis). If there are multiple persons, please, use the macro multiple times.

\phddegree [phdthesis] (discontinued)
This macro is no longer used. Use \degree{} instead.

\degree [bamthesis,phdthesis,coursertext] (mandatory)
This is the official degree name (in the appropriate language, possibly mixed “dutch (english)”). Specify the official title of your diploma. This must be the official title. For bachelor and master programmes in Dutch, it must be the Dutch title. For programmes in English ti may be the English title. For PhD degrees, language constraints are less strict. Consult https://www.hogeronderwijssregister.be for correct bachelor and master degree titles. Consult the Doctoral bylaws of the university for correct PhD degree titles.

\programme [coursertext] (discontinued)
This macro is no longer used. Use \degree{} instead.

\publisher [coursertext] (mandatory)
This macro sets the publisher information of the document. It is printed on the front page. It defaults to the repographic service of campus Groenenborger, one of the standard printing services of Universiteit Antwerpen. Separate the different fields (name, address, a.s.o) using a pipe symbol.

\publishercode [coursertext] (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.
\subtitle [coursertext / phdthesis / report] (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 (if it is loaded), so that the PDF-document meta-information is correct.

\supervisor [bamathesis / phdthesis] (mandatory)
Specifies the person(s) that promote(s)/supervise(s) the thesis. Please, use the macro multiple times if needed.

\title [coursertext / bamathesis / phdthesis / report] (mandatory)
This macro sets the title of the document. It also sets the pdftitle tag of the hyperref package (if it is loaded), so that the PDF-document meta-information is correct.

\titleimage [coursertext / phdthesis / report] (optional)
This sets the filename of the central image on the title page to appear clipped within the curves. For PhD theses this is highly advized. For course texts, this is optional. If the image is not set, a flat colored area will appear. This is part of the house style.

\versionyear [coursertext / report] (mandatory)
This is to be the year in which you published the current version of the course in the form YYYY.

5.3.2 Macros for the letter class

\address [letter] (mandatory)
Address of the sending unit (or faculty). This can be different from the return address. Newlines are allowed and encouraged.

\carboncopy [letter] (optional)
List of persons receiving a copy of this letter. Format at will.

\closing [letter] (mandatory)
Closing clause of the letter. E.g. 'Best regards,'.

\date [letter] (optional)
Date of the letter. If not specified today’s date (at the time of running \LaTeX) will be used.

\email [letter] (optional)
E-mail address of the sending person, or the administrative person tracking the letter. This must definitely be someone that can answer questions related to this letter.

• first argument: user name
• second argument: domain name

\enclosed [letter] (optional)
List of enclosed documents. Format at will.

\fax [letter] (optional)
Probably facsimile is not used anymore, but anyway: fax number of the sending person. See also \email.

\logo [letter] (optional)
file name of an alternative logo to use. The file name must be the name of a file in the search path of type PDF. If this macro is not used, The default logo of the university or your faculty/institute will be used.

\mobile [letter] (optional)
Mobile phone number of the sending person. See also \email.

\opening [letter] (mandatory)
Opening address of the letter. E.g. 'Dear X,'.

\phone [letter] (optional)
Phone number of the sending person. See also \email.

\returnaddress [letter] (mandatory)
This is a short return address (listed in small font on top of the destination address (such that it is visible in a windowed envelope (European format)). It should fit on a single line. Typically we list an acronym for the unit, a room number, a campus name and address. The goal is to get the undelivered letter back to the person that can take action accordingly.

\sender [letter] (mandatory)
Description of the person writing the letter.

• first argument: name of the person writing the letter
• second argument: title / role of the person

Newlines are not allowed in the arguments.

\signature [letter] (optional)
Add a signature (in between the closing statement of the letter and the sender’s name. This might be a text message or a picture of your signature.

\subject [letter] (mandatory)
Short descriptive subject that describes the contents of the letter.

\to [letter] (mandatory)
Name of the addressee. Newlines are allowed. Preferably name and role are split over two lines.

\toaddress [letter] (mandatory)
Address of the addressee. Newlines are allowed. The address should fit on max. 3 lines.

\toorganization [letter] (optional)
Name of the organization that employs the addressee.
5.3.3 Macros for the exam class

\unit [letter] (optional)
Name of the unit to which the person belongs. This can be a research group, a laboratory, an administrative division, etc. Newlines are allowed.

\author [exami] (mandatory)
The author of the exam (may be multiple authors, separated by commas). On the title page, these will be labeled as 'Professor(s) - Titularis(sen)'.

\academicyear [exami] (mandatory)
Use this macro to specify the academic year in full, i.e. in the form XXXX-YYYY.

\course [exami] (mandatory)
see description of \course macro on page 9.

\degree [exami] (mandatory)
This is the official degree name (in the appropriate language, possibly mixed “dutch (english)”). Specify the official title of your diploma. This must be the official title. For bachelor and master programmes in Dutch, it must be the Dutch title. For programmes in English ti may be the English title. For PhD degrees, language constraints are less strict.
Consult [https://www.hogerondervijsregister.be](https://www.hogerondervijsregister.be) for correct bachelor and master degree titles. Consult the Doctoral bylaws of the university for correct PhD degree titles.

\examdate specifies the date of the exam. We recommend the YYYYY-MM-DD format, but you are free to choose your own coding scheme for dates. We advise against using UNIX epoch time, to avoid problems in the first semester exams in 2038.

\examgroupnumber [exami] mentions the group number (may be empty)

\examlength specifies the length of the exam in a unit of time, e.g. '4h'

\exampart [exami] (mandatory)
Description of the part of the course the exam covers. Often the evaluation of a course consists of multiple evaluation elements (e.g. a written exam, a portfolio defense and lab reports). Using this macro you can indicate the part this exam covers. E.g. it could be 'Written Exam' (to distinguish from the other parts 'portfolio defense' and 'lab reports').

\extrainfo specifies the extra information that appears on the back of the title page, regarding the materials that can be used during the examination and cautioning the students not to commit fraude. You can specify an optional first argument 'firstpage', such that your extra info starts on the first page, below the title block. In that case the extra info will also not be terminated with a clearpage (as we assume you want to conserve space).

\lecturer [exami] (mandatory)
You can add one or more lecturers to the course notes (in Dutch: titularis). If there are multiple persons, please, use the macro multiple times.

\programme [exami] (discontinued)
This macro is no longer used. Use `\degree{}` instead.

`\room{}` specifies the rooms in which the exam will take place. This is useless info for the student, but may be of convenience for you as author or supervisor of the exam. Use UAntwerpen standard room designators, e.g. 'G.U.025' for room number 025, on the Groenenborgercampus in the U-building. If your exam is taken in multiple rooms, just specify multiple `\room{}` commands.

`\studentnr{}` specifies the exam copy number. This will appear on every page of the exam, easing the reassembly of pages that do not contain any name. Moreover, it allows for blind correction as the student only writes his name on the front page.

`\tend{}` specifies the end time of the exam in a format identical to the one chosen for `\tstart{}`.

`\tstart{}` specifies the start time of the exam, preferably in the format 'HH:hMM', e.g. '08:30'.

### 5.4 Examples

#### 5.4.1 uantwerpencoursetext

```latex
\documentclass[ti,a4paper,11pt,oneside,openright,copyright]{uantwerpencoursetext}
\usepackage[english,dutch]{babel}
\usepackage{kantlipsum} % this is just for some dummy text, please remove
\title{Zagen, zoeken en zuchten}
\subtitle{Cursusnota's}
\author{Walter Daems en Paul Levrie}
\courseversion{1.3}
\versionyear{2021}
\lecturer{Zoltan Zoekers}
\lecturer{Siana Sigh}
\lecturer{Zeger de Zager}
\degree{Master of Science in de industriële wetenschappen: elektronica-ICT}
\course{2023PTI222}{S-Zoekmachines in een zaagperspectief}
\course{2045PTIIII}{6-Zaagmachines in een zuchtperspectief}
\academicyear{2021-2022}
\titlepageimage{Images/uantwerpen-keyboard.jpg} % this is optional
\publisher{Universitas Cursusdienst | Prinsesstraat 16 | 2000 Antwerpen | T +32 3 233 23 73 | E info@cursusdienst.be}
```


\maketitle

\chapter*{Inleiding}

\chapter{Onzin voor dummies}

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

\section{En waartoe het geleid heeft}

\subsection{Herhaling}

\subsection{Begint vervelend te worden}

\newpage

\subsection{Begint echt vervelend te worden}

\chapter{Besluit}

\appendix

\chapter{Symbolen}

\chapter{Romeinse sprekers}

\chapter{Referentielijst}

\makefinalpage
5.4.2 uantwerpenbamathesis

\documentclass[a4paper,11pt,twoside,openright,english,ti]{uantwerpenbamathesis}
\usepackage[dutch]{babel} % or english if your text is in English
\usepackage{kantlipsum} % this is just for some dummy text, please remove
\usepackage{hyperref} % New: you must load the hyperref package
% this is just for some dummy text, please remove
% New: you must load the hyperref package
% this is just for some dummy text, please remove
% New: you must load the hyperref package
% this is just for some dummy text, please remove
% New: you must load the hyperref package
% this is just for some dummy text, please remove
% New: you must load the hyperref package
\title{Minimax optimisatie voor performantieruimtemodellering}
\author{Bert Bibber}
\supervisor{prof. dr. ir. Kumulus}{Universiteit Antwerpen}
\supervisor{prof. dr. Hilarius Warvinkel}{TNT-Bang, N.V.}
\supervisor{ing. Piet Pienter}{POM}
\academicyear{2021-2022}
\degree{Bachelor of Science in de industriële wetenschappen - elektronica-ICT}
\defenselocation{Antwerpen}
\defensedate{juni 2021}
\begin{document}
\maketitle
\frontmatter
\tableofcontents
\mainmatter
\chapter*{Inleiding}
\kant[1]
\chapter{Onderzoeksvraag}
\section{Het gebeuren}
\begin{equation}
e^{-j\pi} + 1 = 0
\end{equation}
\kant[3]
\end{document}

\address{Groenenborgerlaan 171, 2020 Antwerpen, België}
M: theoefiel.hoekaff@uantwerpen.be
T: +32 265 00 00

\supervisor{prof. dr. W. Vlaams}{Universiteit Antwerpen, België}
\supervisor{prof. dr. J. Stekker}{Universiteit Antwerpen, België}
\jurychairman{prof. dr. P. Dalinckx}{Universiteit Antwerpen, België}
\jurymember{prof. dr. J. Dezerooder}{Universiteit Antwerpen, België}
\jurymember{prof. dr. P. De Tollenaere}{Flanders Make, België}
\jurymember{prof. dr. M. Byr}{IMEC, Nederland}
\degree{doctor in de toegepaste ingenieurswetenschappen}
\defenselocation{Antwerpen}
\defensedate{2021}
\titlepageimage{Images/uantwerpen-keyboard.jpg}
\isbn{987-90-57285-34-7} % don't specify this if you don't want one
\depot{D/2021/12.293/03} % idem

\begin{document}
\maketitle
\frontmatter
\tableofcontents
\mainmatter
\chapter*{Inleiding}
\kant[1]
\chapter{Onderzoeksvraag}
\section{Het gegeven}
\kant[2]
\begin{equation}
e^{-j\pi} + 1 = 0
\end{equation}
\kant[3-17]
\chapter{Literatuurstudie}
\kant[18-19]
\chapter{Theoretische achtergrond}
\kant[20-21]
5.4.4 uantwerpenreport

You may want to use common fonts
\usepackage{mathptmx}
\iftutex
\usepackage{fontspec}
\setmainfont{Calibri}
\setsansfont{Calibri}
\usepackage{sansmathaccent}
\else
\usepackage{cmbright}
\fi
\usepackage[dutch]{babel} % or dutch if your text is in Dutch
\usepackage{kantlipsum} % this is just for some dummy text, please remove
\usepackage{hyperref} % New: you must load the hyperref package
% yourself! This allows you to put it in the
% correct order with the other packages you load!

\title{De toepassing van roomijs-derivaten in beton}
\subtitle{Het belang van een smaakvolle architectuur}
\author{Ing. Jan Bouwblauw}
\extra{Onderzoeksrapport}
\affiliation{Universiteit Antwerpen | Building Research Group}
\address{Groenenborgerlaan 171, 2020 Antwerpen, België\&apos;e\&apos;
M: jan.bouwblauw@uantwerpen.be
T: +32 265 00 00
}
\versionyear{2021}
\titlepageimage{Images/uantwerpen-keyboard.jpg}
\begin{document}
\maketitle
\frontmatter

\chapter{Symbols}

Put your bibliography here using BibTeX

\makefinalpage

\end{document}
\tableofcontents
\mainmatter
\chapter{Inleiding}
\chapter{Smaken en smaakpapillen}
\section{Het gegeven}
\begin{equation}
e^{-j\pi} + 1 = 0
\end{equation}
\chapter{Experimentele setup}
\chapter{Resulaten}
\chapter{Conclusie}
\chapter{Advies}
\appendix
\chapter{Symbolen}
\chapter{Publicaties}
Put your bibliography here using BibTeX
\makefinalpage
\end{document}

5.4.5 uantwerpenletter

Plain example

<<le-example>
As a good UAntwerpen citizen, you would use the calibri font. As this only works for XeLaTeX or LuaLaTeX, we chose to include cmbright in any other case.

Dear prof. Bonette,

I'd like to congratulate you and the other professors of your university on the very instructive video lectures provided by your University. They are valued very highly.

You inspired many a professor at our university to provide more technical content beyond classical paper courses. Based on your inspiring lectures, some students desire to candidate themselves for taking an internship at your university. You can find their details enclosed.

Below, you can find a few more paragraphs to illustrate that this
class can generate multipage letters.

\kant[1-3]

\closing{Kind regards,}
% you might want to insert a signature picture or text:
% \signature{\includegraphics{signature.jpg}}
\carboncopy{prof. S. Mariotte, Mumford University}
\enclosed{
\begin{enumerate}
\item list of course numbers that are most frequently viewed at
our university (1pp)
\item a list of students desiring to take an internship at
Mumford University (2pp)
\end{enumerate}
}
\end{document}
</le-example>

Example with configuration file

Probably, one has to write many letters. The sender details will be most certainly valid for many an occasion. Therefore, you might want to consider putting this default setup in a configuration file, e.g. uantwerpenletter.cfg:

<<le-cfg>
% configuration file for uantwerpenletter class
\iftutex
\usepackage{fontspec}
\setmainfont{Calibri}
\else
\usepackage{cmbright}
\fi

\sender{prof. Walter Daems}{Senior Lecturer}
\unit{Cosys-Lab}
\address{
Campus Groenenborger\nGroenenborgerlaan 171\nB-2020 Antwerpen\nBELGIUM}
\email{walter.daems}{uantwerpen.be}
\phone{+32 3 265 98 43}
\mobile{+32 499 355 115}
\returnaddress{FTI - U.301 -- Groenenborgerlaan 171, 2020 Antwerpen, BELGIUM}
</le-cfg>

The file can then be loaded in the preamble of your letter:

\input{uantwerpenletter.cfg}
After loading this configuration file, you may override some elements if this is appropriate.

You may also consider using multiple configuration files in case you have multiple roles in the university. Just make sure they are on your \LaTeX search path.

5.4.6 uantwerpenexam

Below you can find two examples:

- A single column layout (single language) exam
- A double column layout (English-Dutch) exam

If you require more language combinations, ask the author to implement this.

Single column

\documentclass[ti,a4paper,10pt]{uantwerpenexam}
\usepackage{newpxtext} % demonstration of some fine font packages
\usepackage{newpxmath}
\usepackage[english]{babel} % last language loaded will % determine logo version (change to
\usepackage{dutch}{babel} % [dutch] for a monolingual version)
\\course{1876FTIDUM}{6-Bistrologie}
\\lecturer{Walter Daems}
\\degree{Bachelor of Science in de industriële wetenschappen - elektronica-ICT}
\\academicyear{2017-2018}
\\exampart{Schriftelijk Examen}
\\examgroupnumber{1 (eerste examenkans-inhaal)}
\\examdate{2018-01-29}
\\examlength{4h}
\\tstart{08h30}
\\tend{12h30}
\\room{G.U.025}
\\extrainfo[firstpage]{
Belangrijke informatie:\\par
Het volledige Onderwijs- en Examenreglement (OER) is van toepassing op dit examen.
Toch wil ik vooraf nog een aantal regels duidelijk stellen:
\begin{enumerate}
\item Mogen op je tafeltje aanwezig zijn:
  (1) schrijfgerief, los d.w.z. \textit{niet} in een pennenzak (geen papier; er zit examenpapier bij de opgaven),
  (2) je rekenmachine (zonder alfanumerieke data en zonder geheugenkaarten),
  (3) het formularium.
\item Volledig \textit{verboden} te gebruiken: alle apparatuur met
geheugen- of communicatiefunctionaliteit zoals GSM, smartphone, smartwatch, muziekspeler, \ldots
Je tas staat vooraan in het lokaal. Hang je jas aan de kapstok of leg hem bij je tas.
\item Schrijf je naam op het titelblad van de opgave in het daartoe voorziene vak. Op de andere bladen schrijf je je naam \emph{niet}. Je examenopgave heeft een uniek nummer dat toelaat het te identificeren.
\item Op het einde van het examen geef je \emph{alle} bladen weer af aan de aanwezige docent.
\end{enumerate}
Succes!
\studentnr{127}
\setmcsymbol{\bigcirc}
\begin{document}
\maketitle
\question{[VLATOP-BISTRO]}
\questionweight{3}

Geef de eerste vijf laureaten van de VLATOP-bistro competitie.

\question{[BECHAMEL]}
\questionweight{7}

Welk van de onderstaande ingredi\"enten hoort niet thuis in een b\'echamel saus:
\mc{Melk}
\mc{Boter}
\mc{Bloem}
\mc{Eieren}
\mc{Suiker}
\insertsolutionspagepartial{2}
\insertsolutionspage{}
\clearpage
\question{[BISTROCULTURE-1]}
\questionweight{10}

\begin{enumerate}[label=\alph*)]
\item Bespreek de evolutie van de Noord-Europese bistrocultuur gedurende de laatste vijftig jaar.
\item Breng dit in relatie tot de opkomst van de georganiseerde recensies zoals die van Michelin en Gault-Millau.
\end{enumerate}
\insertsolutionspagepartial{23}
\foreach \i in \{1,2,3\} {
\insertsolutionspage{}
Two columns

\begin{itemize}
\item \emph{Can be used:} (1) writing gear (\emph{not} in a pencil case); you don’t need paper; there’s plenty of paper in your exam copy; (2) your calculator (without alphanumerical data and without memory cards); (3) the formula collection.
\end{itemize}
Mogen op je tafeltje aanwezig zijn:
(1) schrijfgerief, los d.w.z. \emph{niet} in een pennenzak (geen papier; er zit examenpapier bij de opgaven),
(2) je rekenmachine (zonder alfanumerieke data en zonder geheugenkaarten),
(3) het formularium.

\item Volledig \emph{verboden te gebruiken}: alle apparatuur met geheugen- of communicatiefunctionaliteit zoals GSM, smartphone, smartwatch, muziekspeler, \ldots
Je tas staat vooraan in het lokaal. Hang je jas aan de kapstok of leg hem bij je tas.

\item Write your name on the title page. Don't write your name on the subsequent pages. Your copy has a unique number to identify it as yours.

\item Take your time to answer all questions in writing. The point weights are listed above every question. Be complete in your answer, but stick to the point. Take into account the available time.
Neem je tijd om alle vragen schriftelijk te beantwoorden. Het puntengewicht van een vraag is bovenaan de vraag op de opgavebladen vermeld. Wees volledig in je antwoord, maar ter zake. Houd rekening met de beschikbare tijd.

Hand in all papers to the staff member on duty, at the end of the examination.

Success!

Write down the first five laureates of the VALTOP-bistro competition.

Which of the ingredients below does not belong in a béchamel sauce:

Milk, Butter, Flower, Eggs, Sugar

Geef de eerste vijf laureaten van de VLATOP-bistro competitie.

Welk van de onderstaande ingrediënten hoort niet thuis in een bêchamel saus:

Milk, Butter, Flower, Eggs, Sugar
\question{[BISTROCULTURE-1]}
\questionweight{10}

\begin{enumerate}[label=\alph*)]
\item Discuss the evolution of the Northern European bistro culture during the latest fifty years.
\item Relate this to the rise of organized reviews like the ones of Michelin and Gault-Millau.
\end{enumerate}

6 Implementation of the classes

6.1 Common options

Colors appear in any document, so let’s define them in common in a separate package

\begin{verbatim}
\newif\ifneutralcolors
\neutralcolorsfalse
\DeclareOption{neutralcolors}{\neutralcolorstrue}
\newcommand*{\colormodel}{rgb}
\newif\ifcmyk
\cmykfalse
\newcommand*{\colormodel}{cmyk}
\end{verbatim}
\DeclareOption{cmyk}{\renewcommand*\colormodel{cmyk}\@cmyktrue}
\DeclareOption{rgb}{\renewcommand*\colormodel{rgb}\@cmykfalse}

\newcommand*{\facinenglish}[1]{\renewcommand*{\@faculty}{#1}}
\newcommand*{\facindutch}[1]{\AtBeginDocument{\makeatother\@ifpackageloaded{babel}{\addto\captionsdutch{\renewcommand*{\@faculty}{#1}}}{}}}\makeatletter
\newcommand*{\fselector}{ua}
\newcommand*{\lselector}{en}
\newlength{\logounitheight}
\setlength{\logounitheight}{0.8cm}
\newcommand*{\@faculty}{~}
\DeclareOption{be}{\renewcommand*{\fselector}{be}\setlength{\logounitheight}{1cm}\facinenglish{Faculty of Business and Economics}\facindutch{Faculteit Bedrijfswetenschappen en Economie}}
\DeclareOption{fbd}{\renewcommand*{\fselector}{fbd}\setlength{\logounitheight}{1cm}\facinenglish{Faculty of Pharmaceutical, Biomedical and Veterinary Sciences}\facindutch{Faculteit Farmaceutische, Biomedische en Diergeneeskundige Wetenschappen}}
\DeclareOption{ggw}{\renewcommand*{\fselector}{ggw}\setlength{\logounitheight}{1cm}\facinenglish{Faculty of Medicine and Health Sciences}\facindutch{Faculteit Geneeskunde en Gezondheidswetenschappen}}
\DeclareOption{lw}{\renewcommand*{\fselector}{lw}\setlength{\logounitheight}{1cm}\facinenglish{Faculty of Arts}\facindutch{Faculteit Letteren en Wijsbegeerte}}
\DeclareOption{ow}{\renewcommand*{\fselector}{ow}\setlength{\logounitheight}{1cm}\facinenglish{Faculty of Design Sciences}\facindutch{Faculteit Ontwerpwetenschappen}}
\DeclareOption{re}{\renewcommand*{\fselector}{re}\setlength{\logounitheight}{1cm}}
\declareoption{sw}{
\renewcommand*{\fselector}{sw}
\setlength{\logounitheight}{1cm}
\facinenglish{Faculty of Social Sciences}
\facindutch{Faculteit Sociale Wetenschappen}
}
\DeclareOption{ti}{
\renewcommand*{\fselector}{ti}
\setlength{\logounitheight}{1cm}
\facinenglish{Faculty of Applied Engineering}
\facindutch{Faculteit Toegepaste Ingenieurswetenschappen}
}
\DeclareOption{we}{
\renewcommand*{\fselector}{we}
\setlength{\logounitheight}{1cm}
\facinenglish{Faculty of Science}
\facindutch{Faculteit Wetenschappen}
}
\DeclareOption{iob}{
\renewcommand*{\fselector}{iob}
\setlength{\logounitheight}{1cm}
\facinenglish{Institute of Development Policy}
\facindutch{Instituut voor Ontwikkelingsbeleid- en beheer}
}
\newcommand*{\@facultyacronym}{\expandafter{\uppercase\expandafter{\fselector}}}
\AtBeginDocument{
\makeatother
\ifpackageloaded{babel}{
\addto{\captionssymbol}{
\renewcommand*{\lselector}{nl}
}\}{
}\makeatletter
\newcommand*{\logopos}{Logos/logo-uantwerpen-\fselector-\lselector-\colormodel-
pos}
\newcommand*{\logoposua}{Logos/logo-uantwerpen-ua-\lselector-\colormodel-
pos}
\newcommand*{\logoneg}{Logos/logo-uantwerpen-\fselector-\lselector-\colormodel-
eg}
\newcommand*{\logoneguia}{Logos/logo-uantwerpen-ua-\lselector-\colormodel-
eg}
\newcommand*{\logomonowhite}{Logos/logo-uantwerpen-\fselector-\lselector-
\colormodel-mono-white}
\newcommand*{\logomonowhiteua}{Logos/logo-uantwerpen-ua-\lselector-\colormodel-
mono-white}
\newcommand*{\iconfile}{Logos/icon-uantwerpen-\fselector-\colormodel}
\newcommand*{\iconfileua}{Logos/icon-uantwerpen-ua-\colormodel}
}\clo
6.2 Color scheme

\definecolor{uauamain}{cmyk}{0.00,0.96,0.82,0.01}
\definecolor{uauaside}{cmyk}{1.00,0.00,0.51}
\definecolor{uabemain}{cmyk}{0.58,0.00,1.00,0.04}
\definecolor{uabeside}{cmyk}{0.29,0.04,0.41,0.00}
\definecolor{uafbdmain}{cmyk}{0.65,0.03,0.00,0.00}
\definecolor{uafbdsdie}{cmyk}{0.33,0.03,0.00,0.00}
\definecolor{uaggwmain}{cmyk}{0.61,0.55,0.00,0.00}
\definecolor{uaggwsdie}{cmyk}{0.21,0.27,0.03,0.00}
\definecolor{ualwmain}{cmyk}{0.10,1.00,0.90,0.05}
\definecolor{ualwsdie}{cmyk}{0.04,0.45,0.36,0.00}
\definecolor{uaremain}{cmyk}{0.08,0.00,1.00,0.26}
\definecolor{uaresdie}{cmyk}{0.20,0.11,0.50,0.00}
\definecolor{uafbdmain}{RGB}{234,44,56}
\definecolor{uafbdsdie}{RGB}{0.46,101}
\definecolor{uaggwmain}{RGB}{101,168,18}
\definecolor{uaggwsdie}{RGB}{185,213,169}
\definecolor{ualwmain}{RGB}{68,184,243}
\definecolor{ualwsdie}{RGB}{181,221,247}
\definecolor{uaremain}{RGB}{241,181,61}
\definecolor{uaresdie}{RGB}{255,218,145}
6.3 Class inheritance

For convenience, we'll derive from the standard \LaTeX\ book, letter and article class.

Before loading the class, we provide the extra options.

We execute some standard options: We load the book class for course texts and
6.4 Modern typesetting

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

\setlength{\parindent}{0pt}
\addtolength{\parskip}{0.75\baselineskip}
\setcounter{secnumdepth}{3}

6.5 Auxiliary packages

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

6.5.1 Geometry

Let’s reduce the margins to 1 inch each for the documents that are unlikely to be glue bound:

\RequirePackage[top=2.5cm, bottom=2.5cm, left=2.5cm, right=2.5cm]{geometry}
6.5.2 Preparing for \LaTeX3

Let's make things a bit easier for me.

Note that the use of cmbright is no longer imposed (as of v1.3). Using a good
font is now up to the user. The packages ‘newptext/newpxmath’ and ‘cmbright’
are highly recommended. For writing letters, ‘Calibri’ is the official font of the
University of Antwerp.

6.5.3 Font packages

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

6.5.5 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 bamathesis:
6.5.6 UAntwerpen color and logo scheme

6.5.7 Header/Footer

The de-facto standard for headers and footers:

6.6 Colors

6.7 Babel provisions

Let’s start by defining our dictionary:
The dictionary can be accessed using the following document command:

\NewDocumentCommand{\uantwerpendocsprop}{m}{
  \prop_item:Nn \g_@@_data_prop{#1}
}
\NewDocumentCommand{\uantwerpendocsPROP}{m}{
  \str_uppercase:f { \prop_item:Nn \g_@@_data_prop{#1} }
}
\NewDocumentCommand{\uantwerpendocspropread}{m}{
  \@@_datareader:n { #1 }
}

We will fill the dictionary from the generic data file (for elements that should not be translated, currently empty) and the language specific data files (for elements that can be translated).

To this end, we use the following parsing infrastructure:

\cs_new_nopar:Npn \@@_dataparser:w #1 = #2!! {
  \tl_set:Nn \l_tmpa_tl {#1}
  \tl_set:Nn \l_tmpb_tl {#2}
  \tl_trim_spaces:N \l_tmpa_tl
  \tl_trim_spaces:N \l_tmpb_tl
  \prop_gput:Nxx \g_@@_data_prop { \l_tmpa_tl} { \l_tmpb_tl }
}
\ior_new:N \l_@@_data_ior
\cs_new_nopar:Nn \@@_datareader:n {
  \ior_open:Nn \l_@@_data_ior { uantwerpendocs-#1.data }
  \ior_str_map_inline:Nn \l_@@_data_ior {
    \regex_match:nnTF {=} {##1} {
      \@@_dataparser:w ##1!!
    }
  }
  \ior_close:N \l_@@_data_ior
}

By default, we load the generic (not yet!) and the english data file:

\clist_map_inline:nn {en} {
  \@@_datareader:n { #1 }
}
% \prop_show:N \g_@@_data_prop
\ExplSyntaxOff

invoked by the following data file reader:

\ior_new:N \l_@@_data_ior
\cs_new_nopar:Nn \@@_datareader:n {
  \ior_open:Nn \l_@@_data_ior { uantwerpendocs-#1.data }
  \ior_str_map_inline:Nn \l_@@_data_ior {
    \regex_match:nnTF {=} {##1} {
      \@@_dataparser:w ##1!!
    }
  }
  \ior_close:N \l_@@_data_ior
}

By default, we load the generic (not yet!) and the english data file:
The English data can be found below: 

<endata>

org-be = Faculty of Business and Economics
org-fbd = Faculty of Pharmaceutical, Biomedical and Veterinary Sciences
org-ggw = Medicine and Health Sciences
org-lw = Faculty of Arts
org-ow = Faculty of Design Sciences
org-re = Faculty of Law
org-sw = Faculty of Social Sciences
org-ti = Faculty of Applied Engineering
org-we = Faculty of Science
org-iob = Institute of Development Policy
org-ua = University of Antwerp

arr = All rights reserved
of = of domainname = uantwerp.be
datename = Date
subjectname = Subject
acyearname = Academic year
baname = Bachelor of Science
spname = Switching Programme
vpname = Preparatory Programme
maname = Master of Science
phdname = PhD
thesisname = Thesis
mthesisname = Master's thesis
bthesisname = Bachelor's thesis
lecturername = Lecturer
lecturersname = Lecturers
supervisorname = Supervisor
supervisorsname = Supervisors
examname = Exam
— Examen
seriesname = Series
lastname = Last name
— Naam
firstname = First name
— Voornaam
docketname = Docket No.
— Rolnr.
roomname = Room
— Lokaal
roomsname = Rooms
— Lokalen
examstartname = Start — Begin
examendname = End — Einde
examdurationname = Exam duration — Duur
juryname = Jury
jurymembersname = Members
jurychairmanname = Chairman
bthesisname = Thesis to obtain the degree of
phdnamei = Thesis submitted in fulfilment of the requirements for the degree of
phdnameii = at University of Antwerp
weightname = Weight

</endata>

The Dutch data can be found below: 

<nldata>

org-be = Faculteit Bedrijfswetenschappen en Economie
org-fbd = Faculteit Farmaceutische, Biomedische en Diergeneeskundige Wetenschappen
org-ggw = Faculteit Geneeskunde en Gezondheidswetenschappen
org-lw = Faculteit Letteren en Wijsbegeerte
org-ow = Faculteit Ontwerp- en Kunstwetenschappen
org-re = Faculteit Rechten
org-sw = Faculteit Sociale Wetenschappen
org-ti = Faculteit Toegepaste Ingenieurswetenschappen
org-we = Faculteit Wetenschappen
org-iob = Instituut voor Ontwikkelingsbeleid en beheer
org-ua = Universiteit Antwerpen

arr = Alle rechten voorbehouden
of = van domainname = uantwerpen.be
datename = Datum
acyearname = Academiejaar
baname = Bachelor of Science
spname = Schakelprogramma
vpname = Voorbereidingsprogramma
maname = Master of Science
phdname = Doctoraat
thesisname = Afstudeerproef
mthesisname = Masterproef
bthesisname = Bachelorproef
lecturername = Titularis
lecturersname = Titularissen
supervisorname = Promotor
supervisorsname = Promotoren
examname = Ex-
amen seriesname = Reeks lastname = Naam firstname = Voornaam docketname = Rolnr. roomname = Lokaal examstartname = Begin examendname = Einde examdurationname = Duur van het examen juryname = Jury jurymembersname = Leden jurychairmanname = Voorzitter bmthesis-name = Proefschrift tot het behalen van de graad van pthesisnamei = Proefschrift voorgelegd tot het behalen van de graad van pthesisnameii = aan de Universiteit Antwerpen te verdedigen door weightname = Gewicht </nldata>

6.8 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.

\title The title tag is native to L\LaTeX. It sets the @title tag that will be used on the title page.

\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 (if it is loaded).

\shorttitle This macro sets the @shorttitle tag that later will be used in the exam class.
\newcommand*{\shorttitle}{\newcommand*{\shorttitle}[1]{\renewcommand*{\@shorttitle}{#1}}}
\newcommand*{\courseversion}{\newcommand*{\courseversion}[1]{\renewcommand*{\@courseversion}{#1}}}
\newcommand*{\versionyear}{\newcommand*{\versionyear}[1]{\renewcommand*{\@versionyear}{#1}}}
\newcommand*{\publisher}{\newcommand*{\@publisher}{Universitas Cursusdienst | Prinsesstraat 16 | 2000 Antwerpen | T +32 3 233 23 73 | E info@cursusdienst.be}}
\newcommand*{\publishercode}{\newcommand*{\@publishercode}}
\newcommand*{\lecturer}{\ExplSyntaxOn
\seq_new:N \g_@@_lecturers
\cs_new:Nn \@@_addlecturer:n {
\seq_gpush:Nn \g_@@_lecturers { #1 }}
\ExplSyntaxOff}

\author The \texttt{\textbackslash author} tag is native to \LaTeX. It sets the \texttt{\@author} tag that will be used on the title page.

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

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

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

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

\lecturer This macro adds lecturers (Dutch: titularissen) to the course notes. Use the macro multiple times for multiple lecturers. The order will be preserved. Note that as of v4.0 all lecturers are specified using the same macro!
\extra The \texttt{extra} tag allows to specify some extra comment (e.g. the nature of the document) in the bottom bar on the title page.

\affiliation The \texttt{affiliation} tag allows to specify the affiliation of the author.

\supervisor This macro allows to specify one or more supervisors with their affiliation. This can be done by invoking the macro as many times as needed. Note that as of v4.0 all supervisors are specified using the same macro!
The macro \jurychairman sets the \@jurychairman tag that later will be used on the data page. This macro allows for the registration of jury members and their affiliation. This can be done by invoking the macro as many times as needed. Note that as of v4.0 all jurymembers are specified using the same macro!
\phddegree This macro has been discontinued. Use \degree instead.

\programme This macro is no longer in use.
\course For the coursetext class, this macro sets one or more courses. and \@course tags that later will be used on the title page. Note that as of v4.0 all courses are specified using the same macro!

\newcommand*{\coursei}[2]{
  \PackageError{uantwerpendocs}{The \protect\coursei{} macro is no longer available. Use \protect\course{} instead (multiple times if you need to)}{The interface of uantwerpendocs 4.0 has been changed. Use the \protect\course macro instead of the \protect\coursei, \protect\courseii, \protect\courseiii and \protect\courseiv macros that existed earlier (see the uantwerpendocs manual')}\ExplSyntaxOn
  \seq_new:N \g_@@_courseswithcodes
  \cs_new:Nn \@@_addcourse:nn {
    \seq_gpush:Nn \g_@@_courseswithcodes { #1 \texttt{\#2} }
  }
  \NewDocumentCommand{\course}{mm}{\@@_addcourse:nn { #1 } { #2 }\seq_use:Nn \g_@@_courseswithcodes { #1 }\AtBeginDocument{\seq_greverse:N \g_@@_courseswithcodes}\ExplSyntaxOff}

For the exam class (assuming that an exam only holds for a single course), the situation is simple and we assume only a single coursecode and course name.

\newcommand*{\@coursecode}{}
\newcommand*{\@course}{}
\newcommand*{\course}[2]{\renewcommand*{\@coursecode}{#1}\renewcommand*{\@course}{#2}}

\diploma This macro sets the official diploma description into the \@diploma tag that later will be used on the title page.

\newcommand*{\@diploma}{\PackageError{uantwerpendocs}{The \protect\diploma{} macro is no longer available. Use \protect\degree{} instead}{The interface of uantwerpendocs 4.0 has been changed. Use the \protect\degree macro to specify your degree in full text (see \texttt{\degree} manual)}}\ExplSyntaxOn
  \seq_new:N \g_@@_courseswithcodes
  \cs_new:Nn \@@_addcourse:nn {
    \seq_gpush:Nn \g_@@_courseswithcodes { \texttt{\#1}\texttt{\#2} }
  }
  \NewDocumentCommand{\course}{mm}{\@@_addcourse:nn { #1 } { #2 }\seq_use:Nn \g_@@_courseswithcodes { #1 }\AtBeginDocument{\seq_greverse:N \g_@@_courseswithcodes}\ExplSyntaxOff}
\defensedate  This macro sets the \@defensedate tags that later will be used on the title page.
\newcommand*{\@defensedate}{ERROR}
\newcommand{\defensedate}[1]{\renewcommand{\@defensedate}{#1}}
\defenselocation  This macro sets the \@defenselocation tags that later will be used on the title page.
\newcommand*{\@defenselocation}{Antwerpen}
\newcommand{\defenselocation}[1]{\renewcommand{\@defenselocation}{#1}}
\titlepageimage  This macro sets the \@titlepageimage tags that later will be used on the title page, to include the graphics.
\newcommand*{\@titlepageimage}{}
\newcommand{\titlepageimage}[1]{\renewcommand{\@titlepageimage}{#1}}
\isbn  This macro sets the \@isbn tags that later will be used on the data page. If you don’t have an ISBN number, just don’t specify one (i.e. don’t use this macro).
\newcommand*{\@isbn}{}
\newcommand{\isbn}[1]{\renewcommand{\@isbn}{#1}}
\depot  This macro sets the \@depot tags that later will be used on the data page. If you don’t have a depot number, just don’t specify one (i.e. don’t use this macro).
\newcommand*{\@depot}{}
\newcommand{\depot}[1]{\renewcommand{\@depot}{#1}}
\academicyear  This macro sets the \@academicyear tag that later will be used on the title page.
\newcommand*{\@academicyear}{XXX-YYYY}
\newcommand{\academicyear}[1]{\renewcommand{\@academicyear}{#1}}
\copyrightnotices  This macro sets the \@copyrightnotices tag that later will be used on the back of the title page.
\sender  This macro sets the \@sender and \@senderrole tags that will be used in the letter's heading text.

\logo  This macro sets the \@logo tag that will be used to load a graphics file with that name.

\unit  This macro sets the \@unit tag that will be used in the letter's heading text.

\email This macro sets the \@emailuser and \@emaildomain tags that will be used in the letter's heading text. This split construction was used to overcome problems with the @ sign.

\phone This macro sets the \@phone tag that will be used in the letter's heading text.

\fax This macro sets the \@fax tag that will be used in the letter's heading text.
\mobile This macro sets the \@mobile tag that will be used in the letter’s heading text.

643 \newcommand*{\@mobile}{}
644 \newcommand{\mobile}[1]{\renewcommand{\@mobile}{#1}}
646 \returnaddress This macro sets the \@returnaddress tag that will be used in the letter’s heading text (in the area of the envelope’s window).

647 \newcommand{\@returnaddress}{<specify return-address using \textbackslash\{single-line-return-address\}>}
648 \renewcommand{\returnaddress}[1]{\renewcommand{\@returnaddress}{#1}}
650 \to This macro sets the \@to tag that will be used in the letter’s heading text (in the area of the envelope’s window).

651 \newcommand{\@to}{<Specify addressee using \textbackslash\{name\}>}
652 \renewcommand{\to}[1]{\renewcommand{\@to}{#1}}
654 \toorganization This macro sets the \@toorganization tag that will be used in the letter’s heading text (in the area of the envelope’s window).

655 \newcommand{\@toorganization}{<Specify organization using \textbackslash\{toorganization\}>}
656 \renewcommand{\toorganization}[1]{\renewcommand{\@toorganization}{#1}}
659 \toaddress This macro sets the \@toaddress tag that will be used in the letter’s heading text (in the area of the envelope’s window).

660 \newcommand{\@toaddress}{<Specify (multiline) destination using \textbackslash\{toaddress\}>}
661 \renewcommand{\toaddress}[1]{\renewcommand{\@toaddress}{#1}}
664 \subject This macro sets the \@subject tag that will be used in the letter’s heading text.

665 \newcommand*{\@subject}{-}
666 \newcommand*{\subject}[1]{\renewcommand*{\@subject}{#1}}
668 \opening This macro is much a do about nothing, but I prefer to do it this way for historic reasons.
\renewcommand*{\opening}{#1}
\renewcommand*{\closing}{\renewcommand*{\@closing}{#1}}
\renewcommand*{\signature}{\vspace*{8ex}}
\renewcommand*{\carboncopy}{\@carboncopy}
\renewcommand*{\enclosed}{\@enclosed}
\renewcommand*{\address}{\@address}

This macro sets the \@closing tag that will be used to finish the letter.

\renewcommand*{\@closing}{<specify a closing formula using textbackslash{\closing{\}}>
\renewcommand*{\closing}{\renewcommand*{\@closing}{#1}}

This macro sets the \@signature tag that will be used to finish the letter. By default this corresponds to a decent amount of vertical white space

\renewcommand*{\@signature}{\vspace*{8ex}}
\renewcommand*{\signature}{\renewcommand*{\@signature}{#1}}

This macro will set the \@carboncopy tag that will be used in the trailer of the letter.

\renewcommand*{\@carboncopy}{\@carboncopy}
\renewcommand*{\carboncopy}{\renewcommand*{\@carboncopy}{#1}}

This macro will set the \@enclosed tag that will be used in the trailer of the letter.

\renewcommand*{\@enclosed}{\@enclosed}
\renewcommand*{\enclosed}{\renewcommand*{\@enclosed}{#1}}

This macro will set the \@address tag that will be used in the letter’s heading text (in the area of the envelope’s window).

\newcommand*{\@address}{Please, set your multi-line address and contact details using the ‘\protect\address{’ command in the preamble of your document}
\renewcommand*{\address}{\renewcommand*{\@address}{#1}}
\renewcommand*{\address}{\renewcommand*{\@address}{#1}}
\end{macrocode}
\begin{macro}{\exampart}
This macro will set the \texttt{@examgropunumber} tag that will be used on the exam title page.
\begin{macrocode}
\newcommand*{\@exampart}{}
\newcommand*{\exampart}[1]{\renewcommand*{\@exampart}{#1}}
\end{macrocode}
\end{macro}

\texttt{\examgroupnumber} This macro will set the \texttt{@examgroupnumber} tag that will be used on the exam title page.
\begin{macrocode}
\newcommand*{\@examgroupnumber}{}
\newcommand*{\examgroupnumber}[1]{\renewcommand*{\@examgroupnumber}{#1}}
\end{macrocode}

\texttt{\examdate} This macro will set the \texttt{@examdate} tag that will be used on the exam title page.
\begin{macrocode}
\newcommand*{\@examdate}{TBD}
\newcommand*{\examdate}[1]{\renewcommand*{\@examdate}{#1}}
\end{macrocode}

\texttt{\examlength} This macro will set the \texttt{@examlength} tag that will be used on the exam title page.
\begin{macrocode}
\newcommand*{\@examlength}{TBD}
\newcommand*{\examlength}[1]{\renewcommand*{\@examlength}{#1}}
\end{macrocode}

\texttt{\tstart} This macro will set the \texttt{@tstart} tag that will be used on the exam title page.
\begin{macrocode}
\newcommand*{\@tstart}{TBD}
\newcommand*{\tstart}[1]{\renewcommand*{\@tstart}{#1}}
\end{macrocode}

\texttt{\tend} This macro will set the \texttt{@tend} tag that will be used on the exam title page.
\begin{macrocode}
\newcommand*{\@tend}{TBD}
\newcommand*{\tend}[1]{\renewcommand*{\@tend}{#1}}
\end{macrocode}

\texttt{\room} This macro will set the \texttt{@rooms} tag that will be used on the exam title page.
\begin{macrocode}
\ExplSyntaxOn
\seq_new:N \g_@@_rooms
\cs_new:Nn \@@_addroom:n {
\seq_gpush:Nn \g_@@_rooms { #1 }
\}
\end{macrocode}
\newcommand{\@extrainfo}{}
\newcommand{\extrainfo}[2][separatepage]{
  \ifthenelse{\equal{#1}{separatepage}}{
    % then
    \renewcommand{\@extrainfo}{\clearpage #2 \clearpage}
  }{
    % else
    \ifthenelse{\equal{#1}{firstpage}}{
      % firstpage
      \renewcommand{\@extrainfo}{#2}
    }{
      \PackageError{uantwerpendocs}{The first (optional) argument of 'protect\extrainfo' can
        only be 'separatepage' or 'firstpage'}{
        \PackageError{uantwerpendocs}{See the uantwerpendocs manual}}
  }
}

\newcommand{\@studentnr}{}
\newcommand{\studentnr}[2][separatepage]{
  \ifthenelse{\equal{#1}{separatepage}}{
    % then
    \renewcommand{\@studentnr}{#2}
  }{
    % else
    \PackageError{uantwerpendocs}{The first (optional) argument of 'protect\studentnr' can
      only be 'separatepage' or 'firstpage'}{
        \PackageError{uantwerpendocs}{See the uantwerpendocs manual}}
  }
}
6.9 Header and Footer

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

\begin{verbatim}
\newcommand*{\studentnr}{0}
\newcommand{\renewcommand*}{\studentnr}{#1}
\end{verbatim}

\begin{verbatim}
\if@twoside
\lhead[\thepage]{\slshape\rightmark}
\chead{}\rhead[\slshape\leftmark]{\thepage}
\lfoot[\uantwerpendocsprop{org-ua} -- \@facultyacronym]{\@courseversion}
\cfoot{}\rfoot[\@title{}]{\ifdefvoid{\@subtitle}{}{ \@subtitle}}
\else
\lhead[\leftmark]{\rightmark}
\chead{}\rhead[\thepage]{\slshape\leftmark}
\lfoot[\@courseversion]{\@courseversion}
\cfoot{}\rfoot[\@title{}]{\@title}
\fi
\end{verbatim}

The header and footer of the bamathesis class are defined to be:

\begin{verbatim}
\if@twoside
\lhead[\thepage]{\slshape\rightmark}
\chead{}\rhead[\slshape\leftmark]{\thepage}
\lfoot{}\cfoot{}\rfoot{}
\else
\lhead{}\rhead[\thepage]{\slshape\leftmark}
\lfoot{}\cfoot{}\rfoot{}
\fi
\end{verbatim}

The header and footer of the letter class are defined to be:

\begin{verbatim}
\lhead[{}{\leftmark}]
\chead{}\rhead[{}{\thepage}]
\lfoot{}\cfoot{}\rfoot{}
\else
\lhead{}\rhead[{}{\leftmark}]
\lfoot{}\cfoot{}\rfoot{}
\fi
\end{verbatim}

The header and footer of the letter class are defined to be:

\begin{verbatim}
\lhead{}
\chead{}\rhead{}
\lfoot{}\cfoot{}\rfoot{}
\end{verbatim}

The header and footer of the letter class are defined to be:
The header and footer of the \texttt{exam} class are defined to be:

\begin{verbatim}
\if@examiner
\rhead{EXAMINER VERSION}
\else
\rhead{Student nr. @studentnr}
\fi
\end{verbatim}

Some common code remains:

\begin{verbatim}
\setlength{\headheight}{13.7pt}
\renewcommand*{\headrulewidth}{1pt}
\renewcommand*{\footrulewidth}{1pt}
\if@filled\else
\raggedright
\fi
\onecolumn
\end{verbatim}

Remains to take care of filling

\begin{verbatim}
\if@filled\else
\raggedright
\fi
\end{verbatim}
6.10 Copyright notice

\@crnotice This is the standard text that will be used for the \@crnotice tag.

\newcommand{\copyrightnotices}{\copyright{} \@versionyear{} \uantwerpendocsprop{org-ua}, \uantwerpendocsprop{arr}.}

6.11 Fancy chapter headers for the phdthesis class

\def{\makeschapterhead#1}{\vspace*{1ex} \begin{flushright} \makebox[0pt][l]{\rule[-0.4em]{10cm}{1.8em}}\textcolor{white}{\bf\LARGE~#1} \par \interlinepenalty\@M \bf\huge\textcolor{gray}{\rule[-0.5ex]{0em}{2.6ex}~#1} \par \end{flushright} \rule{\textwidth}{1pt} \vspace{5\p@} \par \def{\schapter#1}{\@makechapterhead{#1} \@afterheading} \def{\@makechapterhead#1}{\vspace*{1ex} \begin{flushright} \begin{tikzpicture} \foreach \theta in {0,5,...,355} { \node[color=white] at (\theta:0.025) {\bf\fontsize{72}{12}\selectfont\thechapter}; } \node[color=uacorpblue] at (0,0) {\bf\fontsize{72}{12}\selectfont\thechapter}; \end{tikzpicture} \hspace{-8pt}} \par \def{\@afterheading}{\setlength{\parskip}{0pt} \setlength{\parindent}{0pt}} \@makechapterhead{} \@afterheading} \def{\@schapter#1}{\@makeschapterhead{#1} \@afterheading}
\maketitle The macro for the coursetext class:

\maketitle
\renewcommand\maketitle{\begin{titlepage} \AddToShipoutPicture*[inner sep=0pt,outer sep=0pt]{\clip (0,0) rectangle(\paperwidth,\paperheight);} \begin{scope}{\clip (2.125,20.192) rectangle(\paperwidth,6); \fill[sidecolor]{(2.125,20.192) rectangle(\paperwidth,6); \node[anchor=south west] at (2.125,6) {\ifx\@titlepageimage\@empty \includegraphics[keepaspectratio, scale=0.01, min size={18.875cm}{14.192cm}]{\@titlepageimage} \fi}; \end{scope}\begin{tikzpicture}\clip (0,0) rectangle(\paperwidth,\paperheight); \fill[sidecolor]{(2.125,20.192) rectangle(\paperwidth,6); \node[anchor=south west] at (2.125,6) {\ifx\@titlepageimage\@empty \includegraphics[keepaspectratio, scale=0.01, min size={18.875cm}{14.192cm}]{\@titlepageimage} \fi}; \end{scope}}

6.12 Title page for the masterthesis and coursetext classes

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.

\maketitle
\renewcommand\maketitle{\pagestyle{empty} \begin{titlepage}\AddToShipoutPicture*[inner sep=0pt,outer sep=0pt]{\clip (0,0) rectangle(\paperwidth,\paperheight);} \begin{scope}{\clip (2.125,20.192) rectangle(\paperwidth,6); \fill[sidecolor]{(2.125,20.192) rectangle(\paperwidth,6); \node[anchor=south west] at (2.125,6) {\ifx\@titlepageimage\@empty \includegraphics[keepaspectratio, scale=0.01, min size={18.875cm}{14.192cm}]{\@titlepageimage} \fi}; \end{scope}\begin{tikzpicture}\clip (0,0) rectangle(\paperwidth,\paperheight); \fill[sidecolor]{(2.125,20.192) rectangle(\paperwidth,6); \node[anchor=south west] at (2.125,6) {\ifx\@titlepageimage\@empty \includegraphics[keepaspectratio, scale=0.01, min size={18.875cm}{14.192cm}]{\@titlepageimage} \fi}; \end{scope}}

\node [anchor=west, text width=13.75\textwidth cm, align=left, font=\Huge, uauaside] at (2.125,27) {\textbf{\@title}};

\node [anchor=west, text width=13.75\textwidth cm, align=left, font=\Large, uauaside]
\begin{titlepage}

\node[anchor=base west,maincolor,text width=13.75cm,align=left,font=\LARGE]
\at (2.125,24.25)
\{\textsf{\textbf{\@author}}\};;

\node
\at (2.125,24)
\{\textsf{\textbf{\@subtitle}}\};;

\node
\at (2.125,22)
\{\textsf{\jointcourseswithcodes{\}}\};;

\fill[maincolor] (2.125,6) -- (\paperwidth,6) -- (\paperwidth,2.625) -- (2.55,2.625) arc (-90:-180:0.425) -- cycle;

\node[white,anchor=west,align=left,font=\large]
\at (2.55,5.1)
{
\begin{tabular}{@{}l@{~}p{14.5cm}}
\textsf{\lecturersname} & \textsf{\textbf{\jointlecturers{ | \}}} \\
\end{tabular}
\};;

\node[white,anchor=west,text width=17.5cm,align=left,font=\small]
\at (2.55,3.7)
\{\textsf{\@degree{}}\textsf{\textbf{\@faculty{} | \@academicyear \hfill \@publishercode}}\textsf{\@publisher};;

\node[white,anchor=west,align=left,font=\large]
\at (2.125,1.313)
\{\includegraphics[width=4.75cm]{\logopos}}

\end{titlepage}

% ~\par\relax
% \clearpage
% \ifcopyright
% \backgroundsetup{contents={Copyright University of Antwerp, All Rights Reserved}}
% \fi
% \vspace*{\stretch{1}}
% \@crnotice
% \clearpage
Below, one can find the code for the final page of the coursetext class:

```latex
\newcommand\makefinalpage{
  \cleardoublepage
  \thispagestyle{empty}
  \begin{tikzpicture}[remember picture,overlay]
    \node at (current page.center) {
      \begin{tikzpicture}[inner sep=0pt]
        \clip (0,0) rectangle(\paperwidth,\paperheight);
        \fill[sidecolor] (0,0) rectangle (2.125cm,2.625cm);
      \end{tikzpicture}
    };
  \end{tikzpicture}
}
```

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

```latex
\renewcommand\maketitle{\pagestyle{empty}\begin{titlepage}\AddToShipoutPicture*{\put(0,0){\begin{tikzpicture}[inner sep=0pt,outer sep=0pt]
  \clip (0,0) rectangle(\paperwidth,\paperheight);
  \fill[lightgray] (2.125,\paperheight-7.5cm) rectangle (\paperwidth,6);
  \node [anchor=west,text width=\paperwidth-5cm,align=left,font=\Huge,uauaside] at (2.125,\paperheight-3cm) {
    \textsf{\textbf{\@title}}
  };
}\end{tikzpicture}}\end{titlepage}}
```
Below, one can find the code for the final page of the `bamathesis` class:

```latex
\makefinalpage
```

6.13 Title page for the phdthesis classes

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.

```latex
\maketitle
```
Below, one can find the code for the final page of the `phdthesis` class:

```latex
\newcommand\makefinalpage{
\cleardoublepage
\thispagestyle{empty}
~% intentionally blank page
\clearpage
\thispagestyle{empty}
\begin{tikzpicture}[remember picture,overlay]
\node at (current page.center) {
\begin{tikzpicture}[inner sep=0pt]
\clip (0,0) rectangle(\paperwidth,\paperheight);
\fill[sidecolor] (0,0) rectangle (2.125cm,2.625cm);
\end{tikzpicture}
};
\end{tikzpicture}
}
```

### 6.14 Title page for the report classes

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

```latex
\newcommand\maketitle{\
\pagestyle{empty}
\begin{titlepage}
\AddToShipoutPicture*{\
\put(0,0){\
\begin{tikzpicture}[inner sep=0pt,outer sep=0pt]
\clip (0,0) rectangle(\paperwidth,\paperheight);
\fill[sidecolor] (0,0) rectangle (2.125cm,2.625cm);
\end{tikzpicture}
};
\end{tikzpicture}
\}
```

### \maketitle

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

```latex
\newcommand\maketitle{%
\pagestyle{empty}
\begin{titlepage}
\AddToShipoutPicture*{%
\put(0,0){%\begin{tikzpicture}[inner sep=0pt,outer sep=0pt]
\clip (0,0) rectangle(\paperwidth,\paperheight);
\fill[lightgray]
```
Below, one can find the code for the final page of the \texttt{phdthesis} class:

\makefinalpage

\newcommand\makefinalpage{\setcounter{footnote}{0}\copyright{} \@versionyear{} \@author\uantwerpendocsprop{arr}.\vfill\global\let\thanks\relax\global\let\maketitle\relax\global\let\author\relax\global\let\date\relax\global\let\and\relax\pagestyle{fancy}\thispagestyle{empty}}
6.15 Title page for the letter class

6.15.1 Title Page

\maketitle The top of the letter is generated using the \maketitle command.
6.16 Title page for the exam class

Now Groep has been replaced by Reeks to be consistent with UAntwerpen PC-room nomenclature.

\maketitle  The title page of the exam class is generated using the \maketitle command.
6.17 Auxiliary functions to typeset exams

\question Add a small box with the weight of the question on the current line (right aligned).

\newcounter{question}
\setcounter{question}{0}
\renewcommand*{\thequestion}{\@arabic\c@question}
\newcommand{\question}[1]{\stepcounter{question}\thequestion.~#1%}

\questionweight Add a small box with the weight of the question on the current line (right aligned).

\newcommand{\questionweight}[1]{% \hspace{\fill} \begin{tabular}{|c|} \hline \small \uantwerpendocsprop{weightname}: #1\\} \hline \end{tabular} \}

\engdut typesets the question in two columns, the left column taking the English variant of the question and the right column taking the Dutch variant.

\newcommand{\engdut}[2]{% \begin{tabular}{ccc} \selectlanguage{english}% \begin{minipage}[t]{0.45\textwidth} \begin{flushleft} #1\end{flushleft} \end{minipage} \& \begin{minipage}[t]{0.45\textwidth} \begin{flushleft} #2\end{flushleft} \end{minipage} \end{tabular} \}

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\selectlanguage{english}
\setmcsymbol sets the symbol to be used as multiple choice mark (by default a square).
\newcommand*\@mcsymbol{\square}
\newcommand*\setmcsymbol[1]{\renewcommand\@mcsymbol{#1}}
\mc typesets a multiple choice answer candidate (monolingual, i.e. in a single column).
\newcommand\mc[1]{\hfill\break\qquad\begin{tabular}{cc}
\@mcsymbol & \begin{minipage}[t]{0.9\textwidth}
#1 \end{minipage}\end{tabular}}
\engdutmc typesets a multiple choice answer candidate in two columns, the left column taking the English variant of the question and the right column taking the Dutch variant.
\newcommand*{\engdutmc}[2]{\hfill\break\begin{tabular}{cccc}
\@mcsymbol & \selectlanguage{english}\begin{minipage}[t]{0.42\textwidth}
#1 \end{minipage} & --- & \selectlanguage{dutch}\begin{minipage}[t]{0.42\textwidth}
#2 \end{minipage}\end{tabular}}
\insertsolutionspage partial fills the remainder of the page with 'fill-out' squares. as observing/controlling the current line position in \LaTeX{} is not easy, one has to provide the number of centimeters below the bottom of the page, one wants to start the fill-out squares.
\insertsolutionspage partial
\newcommand\insertsolutionspagepartial[1]{
  \relax
  \AddToShipoutPicture*{%
  \put(0,0){%
  \begin{tikzpicture}
  \clip (0,0) rectangle (21,#1);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,0.990) grid (20,1.5);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,1.499) grid (2,2.5);
  \draw[densely dotted, step=0.5cm,black!20] (18.999,1.499) grid (20,2.5);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,2.499) grid (20,27);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,2.499) grid (20,27);
  \draw[densely dotted, step=0.5cm,black!20] (18.999,1.499) grid (20,27);
  \draw[densely dotted, step=0.5cm,black!20] (19.499,27) grid (20,28);
  \draw[densely dotted, step=0.5cm,black!20] (19.499,27) grid (20,28);
  \draw[densely dotted, step=0.5cm,black!20] (19.499,27) grid (20,28.5);
  \draw[ultra thick] (1,#1) -- (20,#1);
  \end{tikzpicture}
  }%
  \clearpage
  \relax
  }
}

\insertsolutionspage inserts a full solutions page, i.e. flushes the current page and inserts a full page with 'fill-out' squares. The argument allows for specifying a watermark text (e.g. 'Scrap paper').

\newcommand\insertsolutionspage[1]{
  \clearpage
  \AddToShipoutPicture*{%
  \put(0,0){%
  \begin{tikzpicture}
  \clip (0,0) rectangle (21,29.5);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,1.499) grid (2,2.5);
  \draw[densely dotted, step=0.5cm,black!20] (18.999,1.499) grid (20,2.5);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,2.499) grid (20,27);
  \draw[densely dotted, step=0.5cm,black!20] (0.999,2.499) grid (20,27);
  \draw[densely dotted, step=0.5cm,black!20] (18.999,1.499) grid (20,27);
  \draw[densely dotted, step=0.5cm,black!20] (19.499,27) grid (20,28);
  \draw[densely dotted, step=0.5cm,black!20] (19.499,27) grid (20,28);
  \draw[densely dotted, step=0.5cm,black!20] (19.499,27) grid (20,28.5);
  \draw[ultra thick] (1,#1) -- (20,#1);
  \end{tikzpicture}
  }%
  \put(120,150){\rotatebox{60}{\textcolor{watermark}{
  \fontfamily{phv}\fontsize{105}{130}\fontseries{m}\fontshape{n}\selectfont
  #1}}
  }
  \relax
  }
}\insertsolutionspage
We add a lastpage label to the final page

\begin{macrocode}
\AtEndDocument{
  \label{lastpage}
}\end{macrocode}

\subsection{References}

\begin{macrocode}
\AtBeginDocument{
  \@ifpackageloaded{hyperref}{
    \hypersetup{
      backref=true,
      hyperindex=true,
      pagebackref=true,
      breaklinks=true,
      colorlinks=true,
      citecolor=black,
      filecolor=black,
      linkcolor=black,
      pageanchor=true,
      pdfpagemode=UseOutlines,
      urlcolor=black,
      pdftitle={\@title},
      pdfsubject={\@subtitle},
      pdfauthor={\@author}
    }
  }
}\end{macrocode}

7 The beamer theme

7.1 User guide

\begin{tt}
\documentclass[aspectratio=1610]{beamer}
\usetheme{t}{uantwerpen}
\usepackage[english]{babel}

The packages below are for demonstration purpose only. They are not required for the template to work
\usepackage{metalogo}
\usepackage{kantlipsum}
\usepackage{pgfplots}
\usepackage{booktabs}

some stuff to typeset code
\newcommand*\command[1]{{\tt \textbackslash #1}}
\end{tt}
The \texttt{uantwerpen} beamer theme is distributed by CTAN. It should be installed with your \TeX{} distribution by default.

You can load the package in your preamble as:
\begin{itemize}
\item The theme behaves well for all supported beamer aspect ratios.
\item $16\times 10$ is currently your best option to maximize your slide size given a modern LCD-projector!
\item Only \texttt{dutch} and \texttt{english} are supported. The correct logoware is selected using the babel language option!
\end{itemize}

\begin{description}
\item[\tt X] to invoke your own faculty's colors and logos, with \texttt{X} one of the options in the table on the right
\item[\tt nofonts] disables font loading, so you can load your own fonts
\item[\tt rgb] to select RGB color encoding (best for projecting, default)
\item[\tt cmyk] to select CMYK color encoding (best for printing)
\item[\tt neutralcolors] to disable your faculty colors and use the standard UAntwerpen colors
\end{description}
The defaults of the theme are:
\begin{itemize}
\item no faculty option (\textarrow standard UAntwerpen logos)
\item \texttt{rgb}
\end{itemize}

\begin{frame}[t]
{A note on the compiler you are using}
{Fonts galore}

Depending on the type of compiler you use, a different font scheme is loaded:
\begin{description}
\item\LaTeX{} --- ancient compiler - no support\textbackslash
  Don't use!
\item[\texttt{pdflatex}] --- very old school compiler - no OTF/TTF support\textbackslash
  Computer Modern Sans Serif is used as font
\item[\texttt{xelatex}] --- old school compiler - the first to have OTF/TTF support\textbackslash
  Calibri is used as font (with cmbright math fonts)
\item[\texttt{lualatex}] --- current compiler - your best option\textbackslash
  Calibri is used as font (with cmbright math fonts)
\end{description}
\end{frame}

\section{Title slides}
\begin{frame}[negative]
\sectionpage
\end{frame}

\begin{frame}[t]
{Title slides}
\heading{Contents} ---
The contents of the title slide can be set in your preamble using the classical \LaTeX{} commands:
\begin{itemize}
\item \texttt{title{}}
\item \texttt{subtitle{}}
\item \texttt{author{}}
\item \texttt{date{}}
\end{itemize}
We don't specify an institute, as the logos do so.

\heading{Code} --- The titleslide is easily typeset as:\
\begin{codesnippet}
\bframe{}[option]{}
\ind\texttt{maketitle}\textbackslash
\texttt{\end{frame}}
\end{codesnippet}
with no option, or one of: \texttt{normal}, \texttt{negative}, \\
\texttt{negativefill}.
\end{frame}

\section{Regular slides}

\subsection{Bare}

\begin{frame}[negative]
\sectionpage
\end{frame}

\begin{frame}[negative]
\subsectionpage
\end{frame}

\begin{frame}[t]
\begin{codesnippet}
\bframe[] \{options go here, comma separated\}\\
\ind \{first argument\}\\
\ind \{second argument\}\\
\ind frame contents\\
\eframe
\end{codesnippet}
\bigskip

\heading{How to specify them!}\\
Titles are specified using \command{frametitle\{\}} or \\
\command{framesubtitle\{\}} or even easier as first and second argument \\
to the \texttt{frame} environment (or their derived versions).

\begin{frame}[t]
\begin{codesnippet}
\bframe[] \{options go here, comma separated\}\\
\ind \{first argument\}\\
\ind \{second argument\}\\
\ind frame contents\\
\eframe
\end{codesnippet}
\bigskip

\heading{Don't need them?}\\
If you need a slide without titles: just don't specify them!

\heading{Want to get rid of the footer as well?}\\
Specify the \texttt{plain} option to the frame.
\end{frame}

\begin{frame}[t]
\begin{description}
\item[\texttt{normal}] the ordinary white background slide \\
\item[\texttt{negative}] a reverse video slide on a background (in maincolor) without white margins \\
\item[\texttt{negativefill}] a reverse video slide on a background (in maincolor) with white margins
\end{description}

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They are specified as options to the frame environment (or its derivatives).

\begin{itemize}
\item You don't need to specify the normal canvas, it is the default.
\item In handout mode the negative and negativefill canvas will be typeset as normal canvas (to allow for easy printing).
\item The graphic option has many variants that we will discuss later.
\end{itemize}

\begin{frame}[negativefill]
\{A negativefill slide\}
\{with a subtle subtitle\}
\kant[1]
\end{frame}

\begin{frame}[negative,t]
\{A negative slide\}
\{with a subtle subtitle\}
Don't do this! Don't use a title and subtitle, nor straight text but put material on this slide that does not touch or cross the edges of the background!\
E.g., the graph on the bottom right
\begin{tikzpicture}[white]
\begin{axis}
[width=4cm,height=5cm,grid=both,font=\footnotesize]
\addplot[white] {x^2};
\end{axis}
\end{tikzpicture}
\}
The best advice is not to reserve this canvas for title frames and intermission slides.
\end{frame}

\begin{frame}[t]
\{Vertical alignment\}

You can easily specify the vertical alignment of your frame contents, using the options
\begin{description}
\item[\texttt{t}] for top
\item[\texttt{c}] for center
\item[\texttt{b}] for bottom
\end{description}
Example: \\begin{codesnippet}
\begin{frame}[t]\ 
\ind\{Title\}\ 
\ind\{Subtitle\}\ 
\ind frame contents\ 
\eframe
\end{frame}
\end{codesnippet}

\begin{frame}[t]
\{Colors\}
\{What a wonderful world\}

\heading{Standard colors}\ 
You can select the theme colors using:\
\textcolor{maincolor}{Main color}: \ 
\textcolor{sidecolor}{Side color}: \ 
\textcolor{basecolor}{Base color}: \ 
\heading{Advice}\ 
\begin{itemize}
\item \text{Stick to the standard colors or use grayscale tints!}\ 
\item Only use color when functional (e.g. in graphs)\ 
\end{itemize}

\heading{Alert}\ 
You can use \texttt{\alert{}{}} to grab the attention of the user. It will typeset your content in \texttt{\alert{red}}. \ 
\heading{Not taking any advice?}\ 
You can fiddle with the colors, but do so in smart way. \ 
Use \texttt{\setbeamercolor}. You can see how it is used in the \texttt{beamercolorthemeuantwerpen.sty} file. 
\end{frame}

\begin{frame}[t]
\{Logo demo\}

The logo’s can be used as follows (but you should not need them): 
\begin{itemize}
\item \texttt{\includegraphics[width=3cm]{\logopos}}\ 
\begin{tikzpicture}
\draw[fill,white] (0,0) rectangle node (%) \texttt{\includegraphics[width=3cm]{\logopos}} (4,1.25); 
\end{tikzpicture}
\end{center}
\end{frame}
\item \texttt{includegraphics[width=3cm]{\texttt{logoneg}}}\\
\begin{center}
\begin{tikzpicture}
\draw[fill] (0,0) rectangle node
{\includegraphics[width=3cm]{\texttt{logoneg}}} (4,1.25);
\end{tikzpicture}
\end{center}

\item \texttt{includegraphics[width=3cm]{\texttt{logomonowhite}}}\\
\begin{center}
\begin{tikzpicture}
\draw[fill] (0,0) rectangle node
{\includegraphics[width=3cm]{\texttt{logomonowhite}}} (4,1.25);
\end{tikzpicture}
\end{center}

\itemize
\end{frame}

\subsection{With graphic eye candy}

\begin{frame}[negative]
\subsectionpage
\end{frame}

\begin{frame}[t]
{Basic idea}

\textbf{The idea} --- put support material (photo or graph) on the slide next to the frame content. This is done by
\itemize
\item specifying an appropriate canvas
\item using an appropriate frame derivative
\end{itemize}

\textbf{Good combinations}
\begin{center}
\small
\begin{tabular}{ccc}
\hline
\textbf{frame option} & \textbf{graphic on frame} & \textbf{corresponding frame derivative}\\
\hline
\texttt{lqgraphic} & left quarter & \texttt{r3qframe} \\
\texttt{rqgraphic} & right quarter & \texttt{l3qframe} \\
\texttt{lhgraphic} & left half & \texttt{rhframe} \\
\texttt{rhgraphic} & right half & \texttt{lhframe} \\
\texttt{thgraphic} & top half & \texttt{bhframe} \\
\texttt{bhgraphic} & bottom half & \texttt{thframe}\\
\bottomrule
\end{tabular}
\end{center}
\end{frame}

\begin{frame}[l3qframe][rqgraphic]
{Some Random Title}
{Please, adapt!}

\small
The slide has been typeset as:\\
\begin{codesnippet}\[textwidth\]
\bframe[l3q][rqgraphic=\{<load photo here>\}]\\
\ind\{Title\}\\
\ind\{Subtitle\}\\
\ind frame contents\\
\eframe[l3q]
\end{codesnippet}
\smallskip
\subheading{Remarks}
\begin{itemize}
\item Load photo as:\\
\command{includegraphics[width=0.25\command{paperwidth}, min height=\command{textheight}]
\{image.jpg\}}
\item If \texttt{rqgraphic} is specified without argument, a standard photo
is loaded.
\item Note: you can avoid rounding the corner using the
frame option \texttt{noround} (may be useful when not using a photo)
\end{itemize}
\end{r3qframe}
\begin{lhframe}[rhgraphic]
\begin{r3qframe}
{Some Random Title}
{Please, adapt!}
\small
The slide has been typeset as:\\
\begin{codesnippet}\[textwidth\]
\bframe[r3q][lqgraphic=\{<load photo here>\}]\\
\ind\{Title\}\\
\ind\{Subtitle\}\\
\ind frame contents\\
\eframe[r3q]
\end{codesnippet}
\smallskip
\subheading{Remarks}
\begin{itemize}
\item Load photo as:\\
\command{includegraphics[width=0.25\command{paperwidth}, min height=\command{textheight}]
\{image.jpg\}}
\item If \texttt{rqgraphic} is specified without argument, a standard photo
is loaded.
\item Note: you can avoid rounding the corner using the
frame option \texttt{noround} (may be useful when not using a photo)
\end{itemize}
\end{r3qframe}
\begin{lhframe}[rhgraphic]
The slide has been typeset as:
\begin{codesnippet}{\textwidth}
\bframe[lh][rhgraphic={\{<load photo here>\}}]\ind\{Title\}\ind\{Subtitle\}\ind frame contents\eframe[lh]
\end{codesnippet}
\smallskip
\subheading{Remarks}
\begin{itemize}
\item Load photo as:\
\texttt{includegraphics[min width=0.5\textwidth, min height=\textwidth]}\{image.jpg\}
\item If \texttt{rqgraphic} is specified without argument, a standard photo is loaded.
\item Note: avoid rounding the corner using \texttt{noround}
\end{itemize}
\end{lhframe}
\begin{rhframe}[lhgraphic,t]
\{Some Random Title\}
\small
\begin{codesnippet}{\textwidth}
\bframe[rh][lhgraphic={\{<load photo here>\}}]\ind\{Title\}\ind\{Subtitle\}\ind frame contents\eframe[rh]
\end{codesnippet}
\smallskip
\subheading{Remarks}
\begin{itemize}
\item Load photo as:\
\texttt{includegraphics[min width=0.5\textwidth, min height=\textwidth]}\{image.jpg\}
\item If \texttt{rqgraphic} is specified without argument, a standard photo is loaded.
\item Note: avoid rounding the corner using \texttt{noround}
\end{itemize}
\end{rhframe}
\begin{bhframe}[thgraphic,t]
\{Some Random Title\}{Please, adapt!}
\small
The slide has been typeset as:
\begin{codesnippet}[	extwidth]
\bframe[bh][thgraphic={<load photo here>}]\\
\ind\{Title\}\\
\ind\{Subtitle\}\\
\ind frame contents\\
\eframe[bh]
\end{codesnippet}
\end{bhframe}

\begin{thframe}[bhgraphic,t]
\hspace{5cm}
\textbf{Some Random Title}
\textit{Please, adapt!}
\textbf{\small}
\hspace{5cm}
The slide has been typeset as:
\begin{codesnippet}[	extwidth]
\bframe[th][bhgraphic={<load photo here>}]\\
\ind\{Title\}\\
\ind\{Subtitle\}\\
\ind frame contents\\
\eframe[th]
\end{codesnippet}
\end{thframe}

\section{Intermission slides}

\begin{frame}[negative]
\sectionpage
\end{frame}

\subsection{Standard section slides}

\begin{frame}[negative]
\subsectionpage
\end{frame}

\begin{frame}[t]
\{Basic idea\}

You can select any of the canvas templates: negative, negativefill, graphic, graphicfill and normal, and combine it with:
\begin{description}
\item[\command{sectionpage}]
\item[\command{subsectionpage}]
\end{description}

Example:\\[1ex\]
\begin{codesnippet}[0.8\textwidth]
\bframe[][negative]\\
\ind \command{sectionpage}\\
\eframe\textbackslash\textbackslash~\textbackslash\textbackslash
\bframe[][negative]\\
\ind \command{subsectionpage}\\
\eframe
\end{codesnippet}
\begin{frame}[t]
\texttt{Basic idea}

If you are a fan of graphic material in slideware, you can use a \texttt{graphic} or \texttt{graphicfill} canvas in combination with small snippets you put on the slide using

\begin{itemize}
\item $(x,y)=(0,0)$ the bottom left of the slide and $(1,1)$ the top right of the slide
\item \texttt{node options} any options you want to hand over to the \texttt{tikz} node that is used to position the material.
\end{itemize}

\medskip

E.g., the next slide was created using:

\begin{codesnippet}[0.8\textwidth]
\bframe[]\[graphic,t]\ind\command{place} at (0.5,0.5) \{\command{uantwerpenicon[scale=0.8]}\}\eframe
\end{codesnippet}

\medskip

You will have to run \LaTeX{} twice in order for the position to be correct!

\end{frame}

\begin{frame}[graphic,t]
\place at (0.5,0.5) \{\uantwerpenicon[scale=0.8]\}
\end{frame}

\begin{frame}[t]
\texttt{Shading photographs}

Often you need make a photograph a little bit more opaque in order for the (white) text to readable.

To this end you can use the following command

\begin{itemize}
\item \texttt{darken} $s$ \texttt{<material>} with $s$ a value between 0 and 1 to specify the level of darkening.
\end{itemize}

E.g., the next slide was created using:

\begin{codesnippet}[0.9\textwidth]
\bframe[]\[graphicfill=\{\command{darken}s\}\[0.9\textwidth]\ind\\\\eframe
\end{codesnippet}
Shading photographs locally

You can also choose to shade the local backdrop of the material you put on the side. If you like the \uantwerpencallout command of the previous slide, you can give it an optional argument to set the fill opacity of the backdrop behind the text.

E.g., the next slide was created using:
\begin{codesnippet}[0.9\textwidth]
\bfseries I’ll be back!\textbackslash\textbackslash[1ex]
Arnold Schwarzenegger
\end{codesnippet}

The \uantwerpencallout command has the following syntax:
\begin{codesnippet}
\bfseries I’ll be back!\textbackslash\textbackslash[1ex]
Arnold Schwarzenegger
\end{codesnippet}

\medskip

Remember to run \LaTeX{} twice in order for the position of the callout to be correct!
\end{frame}
Arnold Schwarzenegger

\section{Demo of some inner theme parts}

\begin{frame}[negative]
\sectionpage
\end{frame}

\begin{frame}[t]
\{Headings\}
\{on two levels\}
You can set headings on two levels, by using
\begin{itemize}
\item \command{heading\{\}}
\item \command{subheading\{\}}
\end{itemize}
\begin{itemize}
\item \texttt{Main subject}-\texttt{\hspace{1cm} blabla}
\item \texttt{Subtopic 1}-\texttt{\hspace{1cm} blabla}
\item \texttt{Subtopic 2}-\texttt{\hspace{1cm} blabla}
\item \texttt{Next main subject}-\texttt{\hspace{1cm} blabla}
\end{itemize}
\end{frame}

\newcommand{\listdemo}[1][itemize]{
\begin{#1}
\item First level
\begin{#1}
\item Second level
\begin{#1}
\item Third level
\end{#1}
\end{#1}
\end{#1}
\end{frame}

\begin{frame}[t]
\{Itemize / enumerations\}
\{Different styles\}
Usage:\\ Set them (in your preamble) using: \command{setbeamertemplate\{itemize\}[triangle]}\\ The default of the uantwerpen beamer template is set to \texttt{square} to be similar to our logo.
\medskip
\begin{columns}
\column{0.3\textwidth}
\alert{default}
\setbeamertemplate{itemize items}[default]
\end{columns}

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\begin{columns}
\column[T]{0.3\textwidth}
\alert{triangle}
\setbeamertemplate{itemize items}[triangle]
\end{columns}
\begin{columns}
\column[T]{0.3\textwidth}
\alert{circle}
\setbeamertemplate{itemize items}[circle]
\end{columns}
\begin{columns}
\column[T]{0.3\textwidth}
\alert{ball}
\setbeamertemplate{itemize items}[ball]
\end{columns}
\begin{columns}
\column[T]{0.3\textwidth}
\alert{square}
\setbeamertemplate{itemize items}[square]
\end{columns}
\begin{columns}
\column[T]{0.3\textwidth}
\alert{enumeration}
\setbeamertemplate{itemize items}[circle]
\end{columns}
\end{frame}

\section{Advanced material}
\begin{frame}[negative]
\sectionpage
\end{frame}

\begin{frame}[t]
\section{Customizing the template}
If you want to override logos/colors to create a template for your own research group or department:
\begin{verbatim}
\begin{codesnippet}[0.95\textwidth]
\AtBeginDocument{\renewcommand*{\logopos}{your-pos-logo-filename-here}\
\renewcommand*{\logoneg}{your-negative-logo-filename-here}\
\renewcommand*{\logomonowhite}{your-mono-logo-filename-here}\
\colorlet{maincolor}{your-favorite-color}\
\colorlet{sidecolor}{your-secondfavorite-color}\
\colorlet{basecolor}{some-solid-color}\
\end{codesnippet}
\end{verbatim}
\end{frame}
Some genuine advice

Dear user,

Candy slides are nice for PR, but bad for conveying a message.

Beamer is a tool to typeset technical presentations. Need more animation and eye candy? Use other tools. They are much easier in ruining your audiences’ day.

Effective slides are simple slides.\ 
Go by cognitive consonance, flirt with cognitive dissonance, but stay away from cognitive cacophony.
This presentation is i.m.h.o. a bad one, as it shows the cacophony of possibilities. But hey, you were the one asking for it.

A lot of effort has gone into this template. I hope you like it. If you have good suggestions, e-mail me. If you have questions, I might even help you.

Cheers!

Walter Daems\ 
(March 2021)

7.2 Implementation

7.2.1 Main beamer theme

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\DeclareOption{nofonts}{@nofontstrue}
\input{uantwerpencommonoptions.clo}
\ProcessOptions
\RequirePackage{uantwerpencolorlogoscheme}
\AtBeginDocument{
  \def\appropriatelogo{\logopos}
  \def\appropriateslidenumber{%
    \usebeamercolor{pageno in head/foot}%
    \insertframenumber/\inserttotalframenumber}%

  }
\mode<presentation>
\RequirePackage{tikz}
\RequirePackage{graphicx}
\RequirePackage[export]{adjustbox}
\RequirePackage{environ}
\setbeamersize{
  text margin left=.8cm,
  text margin right=.8cm
}
\usecolortheme{uantwerpen}
\usefonttheme{uantwerpen}
\useinnertheme{uantwerpen}
\useoutertheme{uantwerpen}
\setbeamertemplate{navigation symbols}{}
\setbeamertemplate{blocks}[rounded][shadow=true]
\mode
\mode<all>
\end{frame}

\section*{7.2.2 Beamer color theme}
\begin{bmr}
\begin{quote}
Copyright 2021 by Walter Daems <walter.daems@uantwerpen.be>
\end{quote}
\end{bmr}
\setbeamercolor{palette primary}{fg=maincolor}
\setbeamercolor{palette secondary}{fg=sidecolor}
\setbeamercolor{palette tertiary}{fg=uauaside}
\setbeamercolor{palette quaternary}{fg=uauamain}
\setbeamercolor{normal text}{fg=basecolor}
\setbeamercolor{inverse normal text}{fg=white!95!maincolor}
\setbeamercolor{alerted text}{fg=uauamain}
\setbeamercolor{example text}{}
\setbeamercolor{heading}{fg=basecolor}
\setbeamercolor{subheading}{fg=basecolor}
\setbeamercolor{inverse heading}{fg=white}
\setbeamercolor{inverse subheading}{fg=white!75!maincolor}
\setbeamercolor{block body}{bg=black!4}
\setbeamercolor{block title}{bg=black!8}
\setbeamercolor{itemize item}{parent=normal text}
\setbeamercolor{enumerate item}{parent=normal text}
\setbeamercolor{itemize subitem}{parent=normal text}
\setbeamercolor{enumerate subitem}{parent=normal text}
\setbeamercolor{itemize subsubitem}{parent=normal text}
\setbeamercolor{enumerate subsubitem}{parent=normal text}
\setbeamercolor{frametitle}{fg=maincolor}
\setbeamercolor{framesubtitle}{fg=sidecolor}
\setbeamercolor{inverse frametitle}{fg=white}
\setbeamercolor{inverse framesubtitle}{fg=white!80!maincolor}
\setbeamercolor{title in title page}{fg=maincolor}
\setbeamercolor{subtitle in title page}{fg=sidecolor}
\setbeamercolor{author in title page}{fg=maincolor}
\setbeamercolor{date in title page}{fg=sidecolor}
\setbeamercolor{inverse title in title page}{fg=white}
\setbeamercolor{inverse subtitle in title page}{fg=white!75!maincolor}
\setbeamercolor{inverse author in title page}{fg=white}
\setbeamercolor{inverse date in title page}{fg=white!75!maincolor}
\setbeamercolor{pageno in head/foot}{fg=basecolor}
\setbeamercolor{inverse pageno in head/foot}{fg=white}
\setbeamercolor{section in toc}{fg=basecolor}
\setbeamercolor{subsection in toc}{fg=basecolor}
\setbeamercolor{section number projected}{fg=white,bg=basecolor}
\setbeamercolor{subsection number projected}{fg=white,bg=basecolor}
\setbeamercolor{section title}{fg=maincolor}
\setbeamercolor{section name}{fg=maincolor}
\setbeamercolor{inverse section title}{fg=white}
\setbeamercolor{inverse section name}{fg=white}
7.2.3 Beamer font theme

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\usetikzlibrary{calc}

\if@nofonts
else
\RequirePackage{iftex}
\% Uncomment the following line if in MiKTeX you get the error
\% message that \ifluatex is already defined.
\% You first option is to update all your packages both in user as in
\% admin mode to fix your setup.
\% Your second option is to avoid the warning uncommenting the
\% following line:
\% \let\ifluatex\relax
\iftutex
\usepackage{cmbright}
\usefonttheme{serif}
\usepackage{fontspec}
\setmainfont{Calibri}
\usepackage{sansmathaccent}
fi
fi
\usepackage{bm}
\mode<presentation>
\setbeamerfont{normal text}{size=\tiny}
\setbeamerfont{alerted text}{size=\tiny}
\setbeamerfont{example text}{size=\tiny}
\setbeamerfont{structure}{}
\setbeamerfont{tiny structure}{size=\tiny}
\setbeamerfont{title}{size=\large,parent=structure}
\setbeamerfont{title in head/foot}{}
\setbeamerfont{title in sidebar}{size=\tiny}
7.2.4 Beamer inner theme

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7.2.5 Beamer outer theme
\gdef\maybeinverse{}
\define@key{beamerframe}{noround}[true]{\expandafter\csname @noround#1\endcsname}
\define@key{beamerframe}{normal}[true]{\setbeamertemplate{title page}[main]
\setbeamertemplate{section page}[main]
\setbeamertemplate{subsection page}[main]
\setbeamertemplate{background canvas}[normal]\gdef\maybeinverse{}}
\mode<handout|trans>
\define@key{beamerframe}{negativefill}[true]{\gdef\maybeinverse{inverse }\usebeamercolor[fg]{\maybeinverse normal text}\setbeamertemplate{title page}[negativefill]
\setbeamertemplate{section page}[negative]
\setbeamertemplate{subsection page}[negative]
\setbeamertemplate{background canvas}[negativefill]\gdef\maybeinverse{}}
\define@key{beamerframe}{negative}[true]{\gdef\maybeinverse{inverse }\usebeamercolor[fg]{\maybeinverse normal text}\setbeamertemplate{title page}[negative]
\setbeamertemplate{section page}[negative]
\setbeamertemplate{subsection page}[negative]
\setbeamertemplate{background canvas}[negative]\gdef\maybeinverse{}}
\mode<all>
\define@key{beamerframe}{graphicfill}{\includegraphics[width=\paperwidth,min height=\paperheight]{Images/uantwerpen-01.jpg}}{\gdef\maybeinverse{inverse }\usebeamercolor[fg]{\maybeinverse normal text}\setbeamertemplate{background canvas}[graphicfill]{#1}}
Change History

v1.0
General: Consolidated 
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