



RENAL TRANSPLANT HEALTH ANALYSIS

THE ANALYSIS OF DATA CONCERNING THE HEALTH OF RENAL TRANSPLANT PATIENTS

by

Group C

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An electronic version of this report is available at https://github.com/clanghout/Health-Informatics-3/.



ABSTRACT

Write the abstract here...

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INTRODUCTION

This document is intended to be both an example of the TU Delft \LaTeX template for reports and theses, as well as a short introduction to its use. It is not intended to be a general introduction to \LaTeX itself, and we will assume the reader to be familiar with the basics of creating and compiling documents.

Instructions on how to use this template under Windows and Linux, and which Lare packages are required, can be found in README.txt.

1.1. DOCUMENT STRUCTURE

Since a report, and especially a thesis, might be a substantial document, it is convenient to break it up into smaller pieces. In this template we therefore give every chapter its own file. The chapters (and appendices) are gathered together in report.tex, which is the master file describing the overall structure of the document.report.tex starts with the line

\documentclass{tudelft-report}

which loads the TU Delft report template. The template is based on the MEX book document class and stored in tudelft-report.cls. The document class accepts several comma-separated options. The default language is English, but this can be changed to Dutch (e.g., for bachelor theses) by specifying the dutch option:

\documentclass[dutch]{tudelft-report}

Furthermore, hyperlinks are shown in blue, which is convenient when reader the report on a computer, but can be expensive when printing. They can be turned black with the print option. This will also turn the headers black instead of cyan.

If the document becomes large, it is easy to miss warnings about the layout in the MTEX output. In order to locate problem areas, add the draft option to the \documentclass line. This will display a vertical bar in the margins next to the paragraphs that require attention. Finally, the nativefonts option can be used to override the automatic font selection (see below).

This template has the option to automatically generate a cover page with the $\mbox{\tt makecover}$ command. See the next section for a detailed description.

The contents of the report are included between the \begin{document} and \end{document} commands, and split into three parts by

- 1. \frontmatter, which uses Roman numerals for the page numbers and is used for the title page and the table of contents:
- 2. \mainmatter, which uses Arabic numerals for the page numbers and is the style for the chapters;
- 3. \appendix, which uses letters for the chapter numbers, starting with 'A'.

¹We recommend http://en.wikibooks.org/wiki/LaTeX as a reference and a starting point for new users.

2 1. Introduction

The title page is defined in a separate file, e.g., title.tex, and included verbatim with \input{title}.²
Additionally, it is possible to include a preface, containing, for example, the acknowledgements. An example can be found in preface.tex. The table of contents is generated automatically with the \tableof contents command. Chapters are included after \mainmatter and appendices after \appendix. For example, \input{chapter-1} includes chapter-1.tex, which contains this introduction.

The bibliography, finally, is generated automatically with

\bibliography{report}

from report.bib. Although it is possible to manage the bibliography by hand, we recommend using End-Note (available from Blackboard) or JabRef (available from http://jabref.sourceforge.net/). The bibliography style is specified in tudelft-report.bst, which is a modified version of apsrev4-1.bst (from REVTEX) designed to also display the titles of referenced articles. The template will automatically generate clickable hyperlinks if a URL or DOI (digital object identifier) is present for the reference. As an example, we cite the paper by Nobel Prize winner Andre Geim and his pet hamster [?]. If you need to use a different style, change

```
\bibliographystyle{tudelft-report}
at the end of tudelft-report.cls to, e.g.,
\bibliographystyle{apacite}
for the APA style.
```

1.2. COVER AND TITLE PAGE

This template will automatically generate a cover page if you issue the \makecover command. However, before generating the cover, you need to provide the information to put on it. This can be done with the following commands:

- \title[Optional Subtitle]{Title}
 This command is used to provide the title and optional subtitle of the document. The title and subtitle are printed inside the black box on the front cover, while the title is also printed on the spine. If you use a title page (see below), this information will be used there as well.
- \author{J. Random Author}
 This command specifies the author. It is printed in cyan below the title on the front cover (and, possibly, on the title page).
- \affiliation{Technische Universiteit Delft}
 The affiliation is the text printed vertically inside the blue box on the front cover. It can be the affiliation, such as the university or department name, or be used for the document type (e.g., Master's thesis).
- \coverimage{cover.jpg}
 With this command you can specify the filename of the cover image. The image is stretched until it fills the full width of the front cover (including the spine if a back cover is present).
- \covertext{Cover Text}

 If a back cover is present, the cover text is printed in the blue box on the back. Internally, this box is created using the LTFX minipage environment, so it supports line breaks.

The \makecover command also accepts several options for customizing the layout of the cover. The most important of these is back. Supplying this option will generate a back cover as well as a front, including the spine. Since this requires a page size slightly larger than twice A4 (to make room for the spine), and LTEX does not support different page sizes within the same document, it is wise to create a separate file for the cover. cover.tex contains an example. The recommended page size for the full cover can be set with

²Note that it is not necessary to specify the file extension.

1.3. CHAPTERS 3

after the document class and before \begin{document}.

The other options \makecover accepts are

• nospine

If a back cover is generated, the title will also be printed in a black box on the spine. However, for smaller documents the spine might not be wide enough. Specifying this option disables printing the title on the spine.

• frontbottom

By default the black box on the front is situated above the blue box. Specifying this option will place the black box below the blue one.

spinewidth

If a back cover is present, this option can be used to set the width of the spine. The default is spinewidth=1cm.

- frontboxwidth, frontboxheight, backboxwidth, backboxheight
 As their names suggest, these options are used to set the width and height of the front (black) and back
 (blue) boxes. The default widths and heights are 4.375in and 2.1875in, respectively.
- x, y

 The blue and black boxes touch each other in a corner. The location of this corner can be set with these options. It is defined with respect to the top left corner of the front cover. The default values are x=0.8125in and y=3in.
- margin

This option sets the margin between the borders of the boxes and their text. The default value is 12pt.

For a thesis it is desirable to have a title page within the document, containing information like the thesis committee members. To give you greater flexibility over the layout of this page, it is not generated by a command like \makecover, but instead described in the file title.tex. Modify this file according to your needs. The example text is in English, but Dutch translations are provided in the comments. Note that for a thesis, the title page is subject to requirements which differ by faculty. Make sure to check these requirements before printing.

1.3. CHAPTERS

Each chapter has its own file. For example, the LaTeX source of this chapter can be found in chapter-1.tex. A chapter starts with the command

```
\chapter{Chapter title}
```

This starts a new page, prints the chapter number and title and adds a link in the table of contents. If the title is very long, it may be desirable to use a shorter version in the page headers and the table of contents. This can be achieved by specifying the short title in brackets:

```
\chapter[Short title] {Very long title with many words which could not possibly fit on one line}
```

Unnumbered chapters, such as the preface, can be created with \chapter*{Chapter title}. Such a chapter will not show up in the table of contents or in the page header. To create a table of contents entry anyway, add

```
\addcontentsline{toc}{chapter}{Chapter title}
```

after the \chapter command. To print the chapter title in the page header, add

```
\setheader{Chapter title}
```

Chapters are subdivided into sections, subsections, subsubsections, and, optionally, paragraphs and subparagraphs. All can have a title, but only sections and subsections are numbered. As with chapters, the numbering can be turned off by using \section*{...} instead of \section{...}, and similarly for the subsection.

1. Introduction

1.4. \SECTION{...} **1.4.1.** \SUBSECTION{...}

\SUBSUBSECTION{...}

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

1.5. FONTS AND COLORS

The fonts used by this template depend on which version of MTEX you use. Regular MTEX, *i.e.*, if you compile your document with with latex, pslatex or pdflatex, will use Utopia for text, Fourier for math and Latin Modern for sans-serif and monospaced text. However, if you want to adhere to the TU Delft house style, you will need to use XHMTEX, as it supports TrueType and OpenType fonts. Compiling with xelatex will use Bookman Old Style for titles, Tahoma for text, Courier New for monospace and Cambria for math. If you want to use XHMTEX, but do not want to use the TU Delft house style fonts, you can add the nativefonts option to the document class. This will still use Bookman Old Style and Tahoma on the cover, but not for the body of the document. If you need to use these fonts for certain sections in the main text, they are available via \tudrmfamily and \tudsffamily, respectively.

The corporate colors of the TU Delft are cyan, black and white, available, respectively, via \color{tudelft-cyan}, \color{tudelft-black} (which differs slightly from the default black) and \color{tudelft-white}. Apart from these three, the house style defines the basic colors

- tudelft-sea-green,
- tudelft-green,
- tudelft-dark-blue,
- tudelft-purple,
- tudelft-turquoise and
- tudelft-sky-blue,

as well as the accent colors

- tudelft-lavendel,
- tudelft-orange,
- tudelft-warm-purple,
- tudelft-fuchsia,
- tudelft-bright-green and
- tudelft-yellow.

SOFTWARE OVERVIEW

Describer our software here

ENGINEERING REFLECTION

Describe the process of the software engineering, reflecting upon it

FEATURE DESCRIPTION

Describer the implemented features here

INTERACTION DESIGN

Describe the process of our interaction design, meeting with wenxin, etc.

PRODUCT EVALUATION

Describer the product here in its entirety, its functional modules and the failure analysis

7 Outlook

 $Describe\ possible\ improvements\ for\ the\ future\ and\ strategy\ to\ implement\ those,\ should\ the\ software\ be\ used.$

A

SPRINT PLANS

B

SPRINT REFLECTIONS