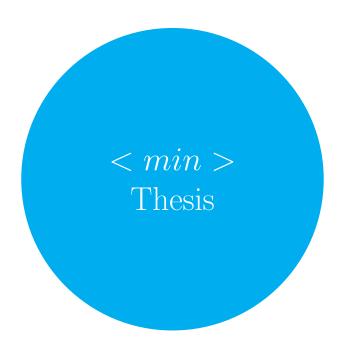
minimalthesis The Title and a very lengthy Subtitle of the Thesis



Type of Thesis (Bachelor/Master/PhD)

To obtain the Academic Degree

"Bachelor (B.Sc.)/Master of Science (M.Sc.)/Philosophical Doctor (PhD)"

handed in by

John Doe

from New York

Example University
Example Faculty
Example Group

September 23, 2023

Examination Committee:

Chairman: Prof. Habakuk Tibatong
1. Reviewer: Prof. H. Bartolomä
2. Reviewer: Prof. L. Murphy
Additional Examiner: Prof. S. Boltzmann

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1 General Information

1.1 Default Settings & User Choice

1.1.1 Base Class & Basic Layout

Per default, minimalthesis uses the scrreprt koma document class with a two sided layout (binding correction: 1 cm) as a basis. The page headers and footers are centered; the footer contains the current page number. The header either contains the current section name (if a section exists; see e.g. page 6) or the current chapter name (see e.g. page 8).

Captions include in small, bold font the type of float, its number and are separated by a colon from the description in normal, small font (see e.g. table 3.3).

1.1.2 Language & Locale

The default document language is set to english and currently cannot be changed by the user. The settings for typesetting units (see section 3.3) are directly derived from the default language.

1.1.3 Font, Visuals & Color

The typesetting design is more classic-minimalist: The user has the choice between the standard serif lmodern LATEX font or a sans serif variant as well as three visual styles (plain, fancy-grayscale, fancy-colorful), which differ in highlighting/usage of color.

1.1.4 Hyperlinks & pdf Metadata

Per default, hidden hyperlinks are activated. The pdf Metadata is created from the user information: The pdf author is equal to mt::author::name, the pdf title will be constructed from mt::thesis::title and/or mt::thesis::subtitle (which ever is available; if both exist, they will be combined). The pdf subject as well as the pdf keywords are set by default to "Academic Thesis" and cannot be changed by the user.

1.2 General Functionality Overview

1.2.1 Quotation Marks

To facilitate the usage of quotation marks, minimalthesis loads the csquotes package, which allows to automatically selects the appropriate quotation marks based on language preset and sentence parameters by using \enquote{text}.

For example,

```
\label{eq:approx} $$ \enquote{A quotation mark test.} $\to $$ "A quotation mark test." $$ \enquote{A \enquote{quotation mark} test.} $\to $$ "A 'quotation mark' test." $$
```

2 Bibliography: Prerequisites, Usage & Functionality

The bibliography is created by using biber. On a Linux based OS with TeXlive as a Larger Backend, it can be installed via the

```
texlive-bibtex-extra (Debian based distro) texlive-bibtexextra (Arch based disto) packages.
```

To create the required bibliography files, one has to run in the terminal:

biber TEXFILENAME

To update the output pdf accordingly, the following sequence of commands is recommended:

```
pdflatex TEXFILENAME.tex && biber TEXFILENAME && pdflatex TEXFILENAME.tex && pdflatex TEXFILENAME.tex
```

For TeXstudio users, it is possible to select under

```
\texttt{Options} \rightarrow \texttt{Configure TeXstudio} \rightarrow \texttt{Build} \rightarrow \texttt{Default Bibliography Tool}
```

biber as the default bibliography tool. After that, as soon as a change will occur in any of the bibliography files/data, TeXstudio will automatically rebuild the bibliography during the next compilation (so no additional user interaction required). If TeXstudio will not do that, a bibliography rebuild can be forced manually by pressing F8.

minimalthesis uses per default the "Angewandte Chemie" (chem-angew) bibliography standard. Currently, this cannot be changed by the user, except by modifying the preamble file. In addition, minimalthesis provides the @arxiv [1] and @thesis [2] bibliography drivers, so that Arxiv preprints and theses can be cited properly without any manual adjustments by the user.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

3 Natural Science

3.1 Mathematical Formulae

To facilitate the typesetting of mathematical equations, especially with respect to physical use cases, minimalthesis not only loads the amsmath, bm and amssymb packages, but also the derivative and physics package to especially help with typesetting differentials and derivatives.

Typesetting derivatives via the derivative package is very flexible: An example for typesetting

Table 3.1: Examples on how to typeset derivatives with the derivative package

\pdv{f}{x}, \quad \odv{Q}{t}=\odv{s}{t}, \quad \pdv{f}{x,y}, \quad
\derivset{\odv}[switch-*=false] \odv{y}{x}, \quad \odv[order=n]{y}{x}, \quad
\derivset{\odv}[] \odv*{\odv{y}{x}}{x}, \quad
\derivset{\pdv}[sort-method={sign,symbol,abs}]
\pdv[order={c+kn,-b+2a}]{f}{x,y}

$$c\frac{\partial f}{\partial x}, \quad \frac{\mathrm{d}Q}{\mathrm{d}t} = \frac{\mathrm{d}s}{\mathrm{d}t}, \quad \frac{\partial^2 f}{\partial x \, \partial y}, \quad \frac{\mathrm{d}y}{\mathrm{d}x}, \quad \frac{\mathrm{d}^n y}{\mathrm{d}x^n}, \quad \frac{\mathrm{d}}{\mathrm{d}x} \frac{\mathrm{d}y}{\mathrm{d}x}, \quad \frac{\partial^{kn+2a+c-b}f}{\partial x^{c+kn} \, \partial y^{-b+2a}}$$

differentials with the physics and derivative packages:

Table 3.2: Examples on how to typeset differentials with the physics and derivative package

$$T = \int_{0}^{\inf y} t dd\{t\},$$

$$\quad V = \int_{a}^{b} r dd[3]\{r\} = \int_{a}^{b} r \int_{x,y,z}$$

$$T = \int_0^\infty t \, dt$$
, $V = \int_a^b r \, d^3r = \int_a^b r \, dx \, dy \, dz$

3.2 Chemical Formulae

For typesetting chemical formulae, minimalthesis loads the mhchem package.

Table 3.3: Examples how to use mhchem. Excerpt from the manual.

```
\label{eq:co2}, $$ \eq{NH3}$ $\to$ $H_2O, $CO_2, $NH_3$ $$ \eq{H2O}, $$ \eq{CO2}, $$ \eq{NH3}$ $\to$ $H_2O, $CO_2, $NH_3$ $$ \eq{H+}, $$ \eq{CrO4^2-}, $$ \eq{AgCl_2}^-$ $\to$ $H^+, $$ \eq{CrO4^2-}, $$ \eq{AgCl_2}^-$ $\to$ $Y^{99+}, $$ \eq{CO2}^-$ $\to$ $Y^
```

For more information, please refer to the official mhchem manual.

3.3 Units

To aid with typesetting units, minimalthesis loads the siunitx package. This package ensures that independent of the user input, all the number and unit conventions derived from the locale settings are satisfied. It also handles the different behavior in math and text environments.

Table 3.4: Examples how to use siunitx.

```
\label{eq:cond_squared} $$ \sum_{23.3, 23.3} \ \sum_{23.3, 23.3} \ \sum_{23.3, 23.3} \ \sum_{3.3, 23.3}
```

Bibliography

- [1] H. Bartolomä, L. Murphy: An Citation Example for Publications on Arxiv, submitted to Journal XYZ preliminary version published on arXiv, 2023, arXiv: XXXX.YYYYY.
- [2] J. Doe: minimalthesis The Title and a very lengthy Subtitle of the Thesis, PhD Thesis, University XYZ, 2023.