The vutinfth class*

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Abstract

This class provides a LaTeX 2ε template for theses at the Faculty of Informatics at the TU Wien. In the current version, bachelor and master theses as well as dissertations are supported in both English and German.

^{*}This document corresponds to vutinfth v1.6, dated 2016/11/12.

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1 Introduction

This class provides a LATEX 2ε template for all theses at the Faculty of Informations at the TU Wien. Further information on the document class and accompanying support can be found at https://gitlab.cg.tuwien.ac.at/auzinger/vutinfth. Further guidelines may apply to both the format and structure of certain theses. These can be found at http://www.informatik.tuwien.ac.at/dekanat. Thesis authors are advised to consult Section 3 for a documentation of all relevant commands. Information for class developers is provided in Section 4.

2 Known Issues

This class is incompatible with the minitoc package as of version 60, due to the incompatibility of the underlying memoir class. Use the titletoc package as a replacement.

3 Usage for Document Authors

This section contains relevant information for authors of theses that are based on the vutinfth document class.

3.1 Data

To allow the generation of the title pages, signature fields, statements, etc., several pieces of information have to be set by the author using the commands in the subsequent sections. We discern several categories of data: (i) textual data, which is given by a simple text string, (ii) persons, which are defined by their names, optional titles, and their gender, as well as, (iii) dates and (iv) list data, which allow the selection of one argument from a list of permissible arguments. Several commands have polylingual capabilities and support different languages (see Section 3.1.5). A superscript P, i.e., \command^P, indicates such a command.

3.1.1 Textual Data

\setaddress
\setregnumber
\settitle
\setsubtitle
\setcurriculum
\setfirstreviewerdata
\setsecondreviewerdata

All commands in this section are called with one mandatory argument, e.g., as $\command{\langle text \rangle}$, where $\langle text \rangle$ defines the content of the commands. For polylingual commands, given by \command^P , one $\langle text \rangle$ argument has to supplied for each language (see Section 3.1.5). The following textual data can be set:

| Command | Role | Type | Optional |
|-----------------------------------|-----------------------------------|------|----------|
| \setaddress | Address of the author | All | No |
| \setregnumber | Registration number of the author | All | No |
| $\$ | Title of the thesis | All | No |
| $ackslash$ setsubtitle $^{ m P}$ | Subtitle of the thesis | All | Yes |
| $\$ setcurriculum $^{\mathrm{P}}$ | Name of the curriculum | B, M | No |

Types: Bachelor (B), Master (M), Doctoral (D), PhD School (P), All (All)

| Command | Role | Type | Optional |
|------------------------|--------------------------------------------|------|----------|
| \setfirstreviewerdata | Affiliation and country of first reviewer | Р | No |
| \setsecondreviewerdata | Affiliation and country of second reviewer | Р | No |

Types: Bachelor (B), Master (M), Doctoral (D), PhD School (P), All (All)

3.1.2 Persons

\setauthor \setadvisor \setsecondadvisor \setfirstassistant \setsecondassistant \setthirdassistant \setfirstreviewer \setsecondreviewer All commands in this section are called with four mandatory arguments, e.g., as $\command{\langle pretitle \rangle} {\langle name \rangle} {\langle name \rangle} {\langle posttitle \rangle} {\langle gender \rangle}$, where $\langle name \rangle$ defines both the first name(s) and family name(s) of the person. A title that is placed before the name is assigned with $\langle pretitle \rangle$, while a trailing title is given with $\langle posttitle \rangle$. Both $\langle pretitle \rangle$ and $\langle posttitle \rangle$ can be left empty, to indicate an absence of such a title; the insertion of appropriate glue between titles and names is handled by the vutinfth class. The declaration of the persons gender via $\langle gender \rangle$ allows the use of gender-specific terms in languages that support them, e.g., German. The possible options for $\langle gender \rangle$ are male and female (see Section 3.1.4). The following persons can be set:

| Command | Role | Type | Optional |
|---------------------|------------------------------|------|----------|
| \setauthor | Author of the thesis | All | No |
| \setadvisor | Main advisor of the thesis | All | No |
| \setsecondadvisor | Second advisor of the thesis | D, P | Yes |
| \setfirstassistant | First advising assistant | B, M | Yes |
| \setsecondassistant | Second advising assistant | B, M | Yes |
| \setthirdassistant | Third advising assistant | B, M | Yes |
| \setfirstreviewer | First thesis reviewer | D, P | No |
| \setsecondreviewer | Second thesis reviewer | D, P | No |

Types: Bachelor (B), Master (M), Doctoral (D), PhD School (P), All (All)

3.1.3 Dates

\setdate

All commands in this section are called with three madatory arguments, e.g., as $\command{\langle day \rangle} {\langle month \rangle} {\langle year \rangle}$. The syntax is identical to the last three arguments of the \newdate command of the datetime package, from which these commands derive. The following dates can be set:

| Command | Role | Type | Optional | |
|----------------------------------------------------------------------|--------------|------|----------|--|
| \setdate | Signing date | All | No | |
| Types: Bachelor (B) Master (M) Doctoral (D) PhD School (P) All (All) | | | | |

3.1.4 List Data

All commands in this section are called with at least one madatory argument called $\langle list \rangle$, e.g., as $\backslash command... \{\langle list \rangle\}...$, where $\langle list \rangle$ is given one element from a set of possible arguments.

\setauthor \setadvisor

When setting a person, the person's gender is specified with a list argument (see Section 3.1.2):

| Command | Options | Description |
|---------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|
| $\label{eq:command} $$ \operatorname{Command}(\langle . \rangle) = (\langle . \rangle) = (\langle list \rangle) $$$ | male female | Specifies a male person. Specifies a female person. |

\setthesis

The thesis type is selected from one of the fundamental types:

| Command | Options | Description |
|---------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| \setthesis $\{\langle list angle \}$ | bachelor master doctor phd-school | Specifies a bachelor's thesis. Specifies a master's thesis. Specifies a dissertation. Specifies a dissertation at the Vienna PhD school of Informatics. |

\setmasterdegree

With a master's curriculum, different degrees can be achieved and the appropriate type has to be chosen based on the curriculum that the author is enroled in:

| Command | Options | Description |
|---------------------------------------------|--------------|---------------------------------------------------------------------------------|
| \setmasterdegree $\{\langle list \rangle\}$ | dipl. | Specifies the degree 'Diplom-Ingenieur(in)'. |
| | master | Specifies the degree |
| | rer.nat. | 'Master of Science'. Specifies the degree |
| | rer.nat. | 'Magist(er/ra) der Naturwissenschaften'. |
| | rer.soc.oec. | Specifies the degree 'Magist(er/ra) der Sozial- und Wirtschaftswissenschaften'. |

\setdoctordegree

With a doctorate study, different degrees can be achieved and the appropriate type has to be chosen based on the program that the author is enrolled in:

| Command | Options | Description | |
|---------------------------------------------|--------------|------------------------------------------------------------------------------|--|
| \setdoctordegree $\{\langle list \rangle\}$ | techn. | Specifies the degree 'Doktor(in) der Technischen' Wissenschaften'. | |
| | rer.nat. | Specifies the degree 'Doktor(in) der Naturwissenschaften'. | |
| | rer.soc.oec. | Specifies the degree 'Doktor(in) der Sozial- und Wirtschaftswissenschaften'. | |

3.1.5 Polylingual Data

\setcurriculum

Used as $\setcurriculum{\langle english\rangle}{\langle german\rangle}$, it sets the name of the curriculum that the student is enrolled in. The name can be given in English, with $\langle english\rangle$, and in German, with $\langle german\rangle$. Note that the curriculum name does not need to be supplied for all thesis types, since, e.g., doctoral studies do not have a curriculum per se. If a title page of one of the languages is not used, the corresponding argument can be left empty.

\settitle

Used as $\settitle{\langle english\rangle}{\langle german\rangle}$, it sets the title of the thesis. The title can be given both in an English version, with $\langle english\rangle$, and in a German version, with $\langle german\rangle$. For title pages in a given language, the corresponding title will be used. Unused languages can be supplied as empty brackets and it is possible to use the English or German title for both language versions.

\setsubtitle

Used as $\setsubtitle{\langle english\rangle}{\langle german\rangle}$, it sets the subtitle of the thesis. The same specifications as for \settitle apply.

\addtitlepage

The titlepage can be generated in the following languages (see Section 3.2):

| Command | Options | Description |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|
| $\begin{tabular}{ll} \label{table} \begin{tabular}{ll} tab$ | english naustrian | Generates an English title page. Generates a German title page. |

Note that a non-English title page is not available for a dissertation at the Vienna PhD School of Informatics.

3.2 Layout

Most of the data that is supplied with the commands of the previous sections is used to generate the front matter of the thesis. It consists of obligatory items such as the title page(s) and the statement of originality as well as optional items such as the acknowledgements or the abstract in different languages. In the remainder of this section, the available items of the front matter are given.

\addtitlepage

Used as $\addtitlepage{\langle lang \rangle}$, where $\langle lang \rangle$ is the name of a language as given in the babel package (see Section 3.1.4). The necessary pieces of information have to be set beforehand (as described in Section 3.1). This command is usually used directly after $\begin{described} begin{described} begin{des$

\addstatementpage

Used as \addstatementpage, it generates a page with the statement of originality.

acknowledgements acknowledgements*

Used as $\ensuremath{\mbox{\mbox{\mbox{V}}}{\mbox{\mbox{t}}}{\mbox{\mbox{t}}}{\mbox{\mbox{t}}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}}{\mbox{t}$

danksagung*

Used as $\ensuremath{\mbox{\mbox{\mbox{V}}}\ensuremath{\mbox{\mbox{$danksagung}$}\xspace}$, this environment generates a chapter with the German acknowledgements. Use the starred version, i.e., danksagung*, to remove the table of content entry of this environment.

abstract*

kurzfassung
kurzfassung*

Used as $\ensuremath{\mbox{\mbox{$\setminus$}}}{\ensuremath{\mbox{$\setminus$}}}{\ensuremath{\mbox{$\setminus$}}}$, this environment generates a chapter with the German abstract. Use the starred version, i.e., kurzfassung*, to remove the table of content entry of this environment.

4 Usage for Class Writers

To accommodate shifting requirements, the vutinfth class provides various convenience functions that allow the modification and extension of its functionality.

4.1 Data

To compose several parts of the thesis layout, input from the thesis author is required. For the vutinfth class, this is realized by the commands provided in Section 3.1. Additional data can be defined with the the commands in the remainder of this section.

\CreateData

Used as $\c as \c as \c$

\CreatePerson

| Argument | Internal Variable |
|------------------------------|----------------------------------------------------------------------|
| | $\verb \vutinfth@person@ \langle name \rangle @def$ |
| $\langle pretitle \rangle$ | $\verb \vutinfth@person@ \langle name \rangle @ \texttt{pretitle} $ |
| $\langle personname \rangle$ | $\verb \vutinfth@person@ \langle name \rangle @name $ |
| $\langle posttitle \rangle$ | $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ |
| $\langle gender \rangle$ | $\verb \vutinfth@person@\langle name\rangle @gender$ |

The command \vutinfth@person@ $\langle name \rangle$ @def is created to increase source code readability when verifying the existance of a specific person. Furthermore, the command \vutinfth@person@ $\langle name \rangle$ @fullname returns the person's name together with existing titles and correct whitespace in between. The person's gender is either \vutinfth@person@male or \vutinfth@person@female, depending on the input. See Section 5.2.6 for examples.

\AddLanguage

Used as $\AddLanguage{\langle lang \rangle\}}$, it enables the language $\langle lang \rangle$ to by used by polylingual expressions. $\langle lang \rangle$ has to be chosed from the languages of the babel package that is used by this class. Currently, vutinfth uses two languages, i.e., english for English expressions and naustrian for German expressions.

\CreatePolylingual

Used as $\colongraphical[\langle expressions \rangle] \{\langle name \rangle\}$, it generates a command $\colongraphical[\langle name \rangle]$ that selects the approriate expression based on the current language at the time of use. The argument $\langle expressions \rangle$ is a list of elements of the form $\langle expr_i \rangle$, where each element defines the expression for a valid language, e.g., $\langle lang_i \rangle = \langle text_i \rangle$. $\langle lang_i \rangle$ has to be chosen from the languages that were defined via $\colongraphical[\langle dang_i \rangle]$ as a convention, text that needs to start with an uppercase letter is assigned to a name that starts with an uppercase letter. The same holds for uppercase words, e.g.,

\CreatePolylingual[english=advisor,naustrian=Betreuer]{advisor}

\CreatePolylingual[english=Advisor,naustrian=Betreuer]{Advisor} \CreatePolylingual[english=ADVISOR,naustrian=BETREUER]{ADVISOR}. See Section 5.2.6 for examples.

4.2 Layout

Several key elements in the layout of the frontmatter are encapsulated to allow a convenient extension of this functionality.

\SignatureFields

Used as $SignatureFields[\langle mode \rangle] \{\langle center \rangle\} \{\langle right \rangle\}$, it creates a place and date description and/or one or two signature fields. $\langle mode \rangle$ can be set to y, which adds an entry with date and place to the left, to h, which adds the corresponding whitespace, or to n, which adds nothing. If text is supplied to $\langle center \rangle$, it is added below a rule, right to the possible date and place entry. If text is supplied to $\langle right \rangle$, it is added below a rule, right to the possible signature field created by $\langle center \rangle$. This command ensures a uniform width and positioning of the signature fields on both the title pages and the statement of originality.

\SignatureBlock

Used as \SignatureBlock, it generates the signature fields for both author and advisor.

\ReviewerBlock

Used as \ReviewerBlock, it generates the signature fields for both reviewers.

\AdvisorBlock

Used as **\AdvisorBlock**, it generates the name fields for both the advisor and the potential assistants.

\AddTitlePage

Used as \AddTitlePage, it generates a title page in the current language. This command contains the placement of the header graphics, the footer, the appropriate blocks, etc.

\AddStatementPage

Used as \AddStatementPage, it generates a chapter with the statement of originality together with the author's signature field.

SFFont

Alters the sans serif font inside the environment. Called with one mandatory argument as $\begin{SFFont}{\langle family \rangle}$, which determines the sans serif font family that should be used, e.g., phv for Helvetica.

5 Implementation

5.1 Initialization

5.1.1 Class Options

Pass the options to the underlying memoir class.

1 \DeclareOption*{%

```
2 \PassOptionsToClass{\CurrentOption}{memoir}%
3 }%
4 \ProcessOptions\relax
```

5.1.2 Loaded Class and Packages

The vutinfth class is based on the memoir class.

```
5 \LoadClass[a4paper,11pt]{memoir}%
6 \chapterstyle{veelo}%
```

The following packages are required for the functionality and style of the document class.

```
7 \RequirePackage[scaled] {helvet}%
8 \RequirePackage{Imodern}%
9 \RequirePackage{courier}%
10 \RequirePackage[T1] {fontenc}%
11 \RequirePackage[english,naustrian] {babel}%
12 \RequirePackage[nodayofweek] {datetime}%
13 \RequirePackage{geometry}%
14 \RequirePackage{calc}%
15 \RequirePackage{etoolbox}%
16 \RequirePackage{graphicx}%
17 \graphicspath{{graphics}/}%
```

5.1.3 Low-Level Functionality

This section provides low-level functionality for macro definitions and macro expansions.

\Onamexdef Globally defines a control sequence with an expanded argument.

 $18 \end{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\c$

\ifestrequal A variant of \ifstrequal that fully expands the first two arguments.

```
19 \newcommand{\ifestrequal}[4]{%
20 \begingroup
21 \edef\vutinfth@tempa{{#1}}%
22 \edef\vutinfth@tempb{{#2}}%
23 \expandafter\expandafter\ifstrequal
24 \expandafter\vutinfth@tempa\vutinfth@tempb{#3}{#4}%
25 \endgroup
26 }%
```

5.1.4 Fonts

\vutinfth@HUGE
\vutinfth@huge
\vutinfth@LARGE
\vutinfth@Large
\vutinfth@large
\vutinfth@normalsize

Initializes the font sizes.

- 27 \newcommand{\vutinfth@HUGE}{\fontsize{30}{34}\selectfont}%
- 28 \newcommand{\vutinfth@huge}{\fontsize{20}{23}\selectfont}%
- 29 \newcommand{\vutinfth@LARGE}{\fontsize{17}{22}\selectfont}%
- ${\tt 30 \newcommand{\vutinfth@Large}{\fontsize{14}{18}\selectfont}\%}$
- 31 \newcommand{\vutinfth@large}{\fontsize{12}{14.5}\selectfont}%
- ${\tt 32 \newcommand{\vutinfth@normalsize}{\fontsize{11}{13.6}\selectfont}\%}$

SFFont Selects the given font family as sans serif font.

33 \newenvironment{SFFont}[1]{%

Stores the current sans serif font in \vutinfth@f@family@tmp and changes to the given sans serif font.

- 34 \begingroup
- 35 \sffamily
- 36 \global\let\vutinfth@f@family@tmp=\f@family
- 37 \endgroup
- 38 \renewcommand{\sfdefault}{#1}%

In case the outer scope is already sans serif, the new font has to be activated.

39 \ifdefstrequal{\f@family}{\vutinfth@f@family@tmp}{\sffamily}{}% 40 }{%

The scope of the font change is the environment itself. Thus, no cleanup code is required in case the outer scope was already sans serif.

41 \renewcommand{\sfdefault}{\vutinfth@f@family@tmp}% 42 }%

5.2 Data

5.2.1 Dates

\setdate Creates the internal storage for the signing date.

- 43 \newcommand{\setdate}[3]{%
- $44 \qquad \texttt{\newdate{vutinfth@date@signing}{\#1}{\#2}{\#3}\%}$
- 45 }%

5.2.2 Textual Data

\vutinfth@def@data Creates the internal storage for simple data entries.

```
46 \newcommand{\vutinfth@def@data}[2]{%
                                  \@namedef{vutinfth@data@#1@def}{}%
                                  \@namedef{vutinfth@data@#1}{#2}%
                              49 }%
\vutinfth@def@data@invalid Initializes the internal storage with error messages.
                              50 \newcommand{\vutinfth@def@data@invalid}[2]{%
                                  \@namedef{vutinfth@data@#1@error}{%
                                     \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
                              53 }%
                              54 \qquad \verb|\coloredge| 0 on a medef {\tt vutinfth@data@#1} {\tt \coloredge} vutinfth@data@#1@error} \} \% 
                              55 }%
               \CreateData Issues the construction of a setter function for a data entry given by \setdata.
                              56 \newcommand{\CreateData}[1]{%
                                   \@namedef{set#1}##1{%
                              57
                                     \vutinfth@def@data{#1}{##1}%
                              58
                              59
                                 \vutinfth@def@data@invalid{#1}{\string\set#1}%
                              61 }%
                             5.2.3 Persons
     \vutinfth@person@male
                             Two genders are differentiated for each person: male and female.
   \vutinfth@person@female
                              62 \newcommand{\vutinfth@person@male}{male}%
                              63 \newcommand{\vutinfth@person@female}{female}%
                             Convenience macros to determine the gender of a person.
                  \iffemale
                              64 \newcommand{\ifmale}[2]{%
                              65 \ifcsstring{vutinfth@person@#1@gender}{\vutinfth@person@male}{#2}{}%
                              67 \newcommand{\iffemale}[2]{%
                              68 \ifcsstring{vutinfth@person@#1@gender}{\vutinfth@person@female}{#2}{}}
                              69 }%
      \vutinfth@def@person
                             Creates the internal storage for a person's name, titles and gender.
                              70 \newcommand{\vutinfth@def@person}[5]{%
                                  \@namedef{vutinfth@person@#1@def}{}%
                                  \@namedef{vutinfth@person@#1@pretitle}{#2}%
```

```
\@namedef{vutinfth@person@#1@name}{#3}%
73
74
    \@namedef{vutinfth@person@#1@posttitle}{#4}%
    \ifdefstring{\vutinfth@person@male}{#5}{%
75
      \Onamedef{vutinfthOpersonO#1Ogender}{\vutinfthOpersonOmale}%
76
77
    }{}%
78
    \ifdefstring{\vutinfth@person@female}{#5}{%
79
      \@namedef{vutinfth@person@#1@gender}{\vutinfth@person@female}%
80
    }{}%
```

For the full name, additional spaces have to be inserted depending on the presence of pre- or posttitles.

```
81
                           \ifstrempty{#3}{%
    82
                                      \ifstrempty{#2}{%
                                                \verb|\cong| with the person 0#10full name $$\{\#4\}\%$ and the person 0#10full name $$\{\#4\}\%$ are the person 0#10full name $$\{\#4\}\%$ and the person 0#10full name $$\{\#4\}\%$ are the person 0#10full name $$\{\#4\}\%$ and the person 0#10full name $$\{\#4\}\%$ are the person 0#10f
    83
    84
                                     }{%
     85
                                                 \ifstrempty{#4}{%
                                                            \@namedef{vutinfth@person@#1@fullname}{#2}%
    86
                                                            \Onamedef{vutinfthOpersonO#1Ofullname}{#2 #4}%
    88
                                                }%
    89
                                    }%
    90
                           }{%
    91
                                      \ifstrempty{#2}{%
    92
                                                \ifstrempty{#4}{%
    93
    94
                                                            \@namedef{vutinfth@person@#1@fullname}{#3}%
    95
                                                }{%
                                                            \Onamedef{vutinfthOpersonO#1Ofullname}{#3, #4}%
    96
                                                }%
    97
                                      }{%
    98
                                                 \ifstrempty{#4}{%
                                                            \@namedef{vutinfth@person@#1@fullname}{#2 #3}%
100
101
                                                            \@namedef{vutinfth@person@#1@fullname}{#2 #3, #4}%
102
                                                }%
103
                                    }%
104
                         }%
105
106 }%
```

\vutinfth@def@person@invalid Initializes the internal storage with error messages.

```
107 \newcommand{\vutinfth@def@person@invalid}[2]{%
108
     \@namedef{vutinfth@person@#1@error}{%
       \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
109
110
    }%
     \@namedef{vutinfth@person@#1@name}{%
111
       \@nameuse{vutinfth@person@#1@error}}%
112
     \@namedef{vutinfth@person@#1@pretitle}{%
113
       \@nameuse{vutinfth@person@#1@error}}%
114
     \@namedef{vutinfth@person@#1@posttitle}{%
115
```

```
\@nameuse{vutinfth@person@#1@error}}%
116
     \@namedef{vutinfth@person@#1@gender}{%
117
       \@nameuse{vutinfth@person@#1@error}}%
118
     \@namedef{vutinfth@person@#1@fullname}{%
119
       \@nameuse{vutinfth@person@#1@error}}%
120
121 }%
```

\CreatePerson Issues the construction of a setter function for a person given by \setperson.

```
122 \newcommand{\CreatePerson}[1]{%
     \@namedef{set#1}##1##2##3##4{%
       \vutinfth@def@person{#1}{##1}{##2}{##3}{##4}%
124
125
    \vutinfth@def@person@invalid{#1}{\string\set#1}%
126
127 }%
```

5.2.4Polylingual Text

This class supports bi- and polylingual text via a key-value mechanism. See the \CreatePolylingual command further down for the actual definition of polylingual expressions.

\AddLanguage

Constructs the temporary variables and the permanent storage for polylingual text in the given language.

```
128 \newcommand{\AddLanguage}[1]{%
```

First, the key for the current language, given by its name in the babel package, is created. Keys of the keyval package are internally stored as KV@family@keyname, where we use vutinfth as family name and the argument as key name. The value that is given to this key as part of a function argument is assigned to a temporary storage.

```
\@namedef{KV@vutinfth@#1}##1{%
129
       \@namedef{vutinfth@current@#1}{##1}%
130
     }%
131
```

The key value is initialized as empty.

```
\@nameuse{KV@vutinfth@#1}{}%
132
```

The transfer from temporary to permanent storage is achieved by adding code to the already existing transfer routine. This causes each new language to issue the transfer for the previously defined language.

```
\ifundef{\vutinfth@allocate@polylingual}{%
133
```

Define the transfer function, if it has not been defined so far.

```
134 \newcommand{\vutinfth@allocate@polylingual}[1]{\@empty}% 135 \}{}%
```

Store the current transfer function via \let to allow recursion.

```
136 \@namelet{vutinfth@allocate@polylingual@#1}%
137 \vutinfth@allocate@polylingual
```

Define the transfer function to permanent storage.

```
138 \renewcommand{\vutinfth@allocate@polylingual}[1]{%
```

Call the transfer routine of the previously defined language.

```
139 \@nameuse{vutinfth@allocate@polylingual@#1}{##1}%
```

To define the permanent storage, \@namexdef is used the definition's scope has to be global.

```
140 \Qnamexdef{vutinfthQ##1Q#1}{%
141 \ifcsempty{vutinfthQcurrentQ#1}{%
```

In draft mode we mark unassigned languages, i.e., polylingual expression that were not defined for a language that is in use when the polylingual expression is called.

The use of \Onamexdef expands the content of the temporary storage before assigning it to the permanent one.

```
148 \@nameuse{vutinfth@current@#1}%
149 }%
150 }%
151 }%
```

At time of usage, the language, which is given as an argument, is checked against the currently active language.

```
152 \ifundef{\vutinfth@selectlanguage@polylingual}{%
```

Define the language selection function, if it has not been defined so far.

```
% loss than the property in t
```

Store the current selection function via \let to allow recursion.

```
155 \@namelet{vutinfth@selectlanguage@polylingual@#1}%
156 \vutinfth@selectlanguage@polylingual
```

Define the selection function.

157 \renewcommand{\vutinfth@selectlanguage@polylingual}[1]{%

Call the selection routine of the previously defined language.

```
158 \@nameuse{vutinfth@selectlanguage@polylingual@#1}{##1}%
```

The currently active language is given by \languagename. If it matches the language, which was supplied as the argument, the content of the current permanent storage is returned.

\CreatePolylingual

Creates the actual polylingual expressions.

The key-value pairs of the optional argument define the text that is returned for the respective languages. We use vutinfth as the family name for the keys.

```
164 \setkeys{vutinfth}{#1}%
```

Each key was already assigned a temporary storage, whose content has to be transfered to permanent storage.

```
165 \vutinfth@allocate@polylingual{#2}%
166 \endgroup
```

The mandatory argument $\{\langle arg \rangle\}$ is used to define the macro that returns the appropriate text for the currently active language.

```
167 \@namedef{vutinfth@polylingual@#2}{%
168 \vutinfth@selectlanguage@polylingual{#2}}%
169 }%
```

5.2.5 Thesis Types

n@thesis@basetype@undergraduate tinfth@thesis@basetype@graduate Two thesis categories are differentiated: undergraduate and graduate.

```
170 \newcommand{\vutinfth@thesis@basetype@undergraduate}{% vutinfth@undergraduate}%
```

```
172 \newcommand{\vutinfth@thesis@basetype@graduate}{%
                                 173 vutinfth@graduate}%
              \ifundergraduate
                                 Convenience macros to determine the category of the selected thesis type.
                    \ifgraduate
                                 174 \newcommand{\ifundergraduate}[1]{%
                                      \ifestrequal{\vutinfth@thesis@basetype}{%
                                 175
                                         \vutinfth@thesis@basetype@undergraduate
                                 176
                                      }{#1}{}%
                                 177
                                 178 }%
                                 179 \newcommand{\ifgraduate}[1]{%
                                      \ifestrequal{\vutinfth@thesis@basetype}{%
                                 180
                                         \vutinfth@thesis@basetype@graduate
                                 181
                                      }{#1}{}%
                                 182
                                 183 }%
cinfth@thesis@doctortype@doctor
                                 Two doctor thesis categories are differentiated: doctor and phd, where the latter
                                 is for dissertation in the context of the Vienna PhD School of Informatics.
vutinfth@thesis@doctortype@phd
                                 184 \newcommand{\vutinfth@thesis@doctortype@doctor}{%
                                      vutinfth@doctor}%
                                 186 \newcommand{\vutinfth@thesis@doctortype@phd}{%
                                 187 vutinfth@phd}%
                      \ifdoctor Convenience macros to determine the category of the selected doctor thesis type.
                                 These need to be nested inside \ifgraduate conditions.
                         \ifphd
                                 188 \newcommand{\ifdoctor}[1]{%
                                      \ifestrequal{\vutinfth@thesis@doctortype}{%
                                 189
                                 190
                                        \vutinfth@thesis@doctortype@doctor
                                      }{#1}{}%
                                 191
                                 192 }%
                                 193 \newcommand{\ifphd}[1]{%
                                      \ifestrequal{\vutinfth@thesis@doctortype}{%
                                 195
                                         \vutinfth@thesis@doctortype@phd
                                 196
                                     }{#1}{}%
                                 197 }%
                                 Initialize the thesis category, the type and the specific degree with error messages.
     \vutinfth@thesis@basetype
   \vutinfth@thesis@doctortype
                                 198 \newcommand{\vutinfth@thesis@basetype}{%
   \vutinfth@thesis@thesisname
                                      \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                 199
   \vutinfth@thesis@degreename
                                 200
                                         Set thesis type with \string\setthesis.}%
                                 201 }%
                                 202 \newcommand{\vutinfth@thesis@doctortype}{%
                                       \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                         Set thesis type with \string\setthesis.}%
                                 204
```

205 }%

206 \newcommand{\vutinfth@polylingual@degreename}{%

```
\ClassError{vutinfth}{No \string\setthesis \space issued}{%
                           207
                                   Set thesis type with \string\setthesis.}%
                           208
                           209 }%
                           210 \newcommand{\vutinfth@polylingual@thesisname}{%
                                \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                           212
                                   Set thesis type with \string\setthesis.}%
                           213 }%
\vutinfth@thesis@bachelor
                           Four main thesis types are differentiated: bachelor, master, doctor, and
 \vutinfth@thesis@master
                           phd-school.
 \vutinfth@thesis@doctor
                           214 \newcommand{\vutinfth@thesis@bachelor}{bachelor}%
     \vutinfth@thesis@phd
                           215 \newcommand{\vutinfth@thesis@master}{master}%
                           216 \newcommand{\vutinfth@thesis@doctor}{doctor}%
                           217 \newcommand{\vutinfth@thesis@phd}{phd-school}%
          \@setthesisname
                           Internal convenience macros.
          \@setdegreename
                           218 \newcommand{\@setthesisname}[1]{%
 \@setgendereddegreename
                                 \renewcommand{\vutinfth@polylingual@thesisname}{#1}}%
                           220 \newcommand{\@setdegreename}[1]{%
                                 \renewcommand{\vutinfth@polylingual@degreename}{#1}}%
                           221
                           222 \newcommand{\@setgendereddegreename}[2]{%
                               \ifmale{author}{\@setdegreename{#1}}%
                                \iffemale{author}{\@setdegreename{#2}}%
                           225 }%
               \setthesis Sets the thesis type.
                           226 \newcommand{\setthesis}[1]{%
                                \ifdefstring{\vutinfth@thesis@bachelor}{#1}{%
                           Initializes bachelor thesis type.
                                   \renewcommand{\vutinfth@thesis@basetype}{%
                           228
                           229
                                     \vutinfth@thesis@basetype@undergraduate}%
                           230
                                   \@setthesisname{\vutinfth@polylingual@BACHELORTHESIS}%
                                   \@setdegreename{\vutinfth@polylingual@Bdeg}%
                           231
                           232
                                 }{}}%
                                 \ifdefstring{\vutinfth@thesis@master}{#1}{%
                           233
                           Initializes master thesis type.
                           234
                                   \renewcommand{\vutinfth@thesis@basetype}{%
                                     \vutinfth@thesis@basetype@undergraduate}%
                           235
                           236
                                   \@setthesisname{%
                           237
                                     \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
                                       Set masterdegree with \string\setmasterdegree.}%
                           238
                                   }%
                           239
                                   \@setdegreename{%
                           240
```

```
\ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
                                241
                                            Set master degree with \string\setmasterdegree.}%
                                242
                                        }%
                                243
                                     }{}%
                                244
                                      \ifdefstring{\vutinfth@thesis@doctor}{#1}{%
                                245
                                Initializes doctor thesis type.
                                246
                                       \renewcommand{\vutinfth@thesis@basetype}{%
                                247
                                         \vutinfth@thesis@basetype@graduate}%
                                       \renewcommand{\vutinfth@thesis@doctortype}{%
                                248
                                249
                                         \vutinfth@thesis@doctortype@doctor}%
                                       \@setthesisname{\vutinfth@polylingual@DOCTORTHESIS}%
                                250
                                       \@setdegreename{%
                                251
                                         \ClassError{vutinfth}{No \string\setdoctordegree \space issued}{%
                                252
                                           Set doctor degree with \string\setdoctordegree.}%
                                253
                                      }%
                                254
                                      }{}}%
                                255
                                      \ifdefstring{\vutinfth@thesis@phd}{#1}{%
                                256
                                Initializes phd-school thesis type.
                                257
                                       \renewcommand{\vutinfth@thesis@basetype}{%
                                258
                                         \vutinfth@thesis@basetype@graduate}%
                                259
                                       \renewcommand{\vutinfth@thesis@doctortype}{%
                                260
                                         \vutinfth@thesis@doctortype@phd}%
                                       \Osetthesisname{\vutinfthOpolylingualOPHDTHESIS}%
                                261
                                       \@setdegreename{\vutinfth@polylingual@Pdeg}%
                                 262
                                263
                                      }{}%
                                264 }%
                                Four master degrees can be selected: dipl., master, rer.nat., and
    \vutinfth@thesis@mdeg@dipl
  \vutinfth@thesis@mdeg@master
                                rer.soc.oec..
  \vutinfth@thesis@mdeg@rernat
                                265 \newcommand{\vutinfth@thesis@mdeg@dipl}{dipl.}%
vutinfth@thesis@mdeg@rersocoec
                                266 \newcommand{\vutinfth@thesis@mdeg@master}{master}%
                                267 \newcommand{\vutinfth@thesis@mdeg@rernat}{rer.nat.}%
                                268 \newcommand{\vutinfth@thesis@mdeg@rersocoec}{rer.soc.oec.}%
                                Sets the specific master degree.
              \setmasterdegree
                                269 \newcommand{\setmasterdegree}[1]{%
                                      270
                                        \@setthesisname{\vutinfth@polylingual@DIPLOMATHESIS}%
                                271
                                        \@setgendereddegreename{%
                                272
                                          \vutinfth@polylingual@MdegDiplMale
                                273
                                275
                                          \vutinfth@polylingual@MdegDiplFemale
                                276
                                        }%
                                     }{}%
                                277
```

```
279
                                        \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                        \@setdegreename{\vutinfth@polylingual@MdegMaster}%
                                280
                                281
                                      }{}%
                                      \ifdefstring{\vutinfth@thesis@mdeg@rernat}{#1}{%
                                282
                                283
                                        \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                284
                                        \@setgendereddegreename{%
                                285
                                          \vutinfth@polylingual@MdegRerNatMale
                                        }{%
                                286
                                          \vutinfth@polylingual@MdegRerNatFemale
                                287
                                        }%
                                288
                                289
                                      }{}%
                                      \ifdefstring{\vutinfth@thesis@mdeg@rersocoec}{#1}{%
                                290
                                        \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                291
                                        \@setgendereddegreename{%
                                292
                                          \vutinfth@polylingual@MdegRerSocOecMale
                                293
                                        }{%
                                294
                                          \vutinfth@polylingual@MdegRerSocOecFemale
                                295
                                296
                                        }%
                                297
                                     }{}%
                                298 }%
                                Three doctor degrees can be selected: rer.nat., techn., and rer.soc.oec..
  \vutinfth@thesis@ddeg@rernat
   \vutinfth@thesis@ddeg@techn
                                299 \newcommand{\vutinfth@thesis@ddeg@rernat}{rer.nat.}%
vutinfth@thesis@ddeg@rersocoec
                                300 \newcommand{\vutinfth@thesis@ddeg@techn}{techn.}%
                                301 \newcommand{\vutinfth@thesis@ddeg@rersocoec}{rer.soc.oec.}%
              \setdoctordegree
                                Sets the specific doctor degree.
                                302 \newcommand{\setdoctordegree}[1]{%
                                      \ifdefstring{\vutinfth@thesis@ddeg@rernat}{#1}{%
                                303
                                        \@setgendereddegreename{%
                                304
                                305
                                          \vutinfth@polylingual@DdegRerNatMale
                                306
                                        }{%
                                 307
                                          \vutinfth@polylingual@DdegRerNatFemale
                                308
                                        }%
                                      }{}%
                                309
                                      310
                                        \@setgendereddegreename{%
                                311
                                          \vutinfth@polylingual@DdegTechnMale
                                312
                                        }{%
                                313
                                          \vutinfth@polylingual@DdegTechnFemale
                                314
                                        }%
                                315
                                316
                                      }{}%
                                      \ifdefstring{\vutinfth@thesis@ddeg@rersocoec}{#1}{%
                                317
                                        \@setgendereddegreename{%
                                318
                                          \vutinfth@polylingual@DdegRerSocOecMale
                                319
                                320
                                        }{%
                                321
                                          \vutinfth@polylingual@DdegRerSocOecFemale
```

\ifdefstring{\vutinfth@thesis@mdeg@master}{#1}{%

278

```
322 }%
323 }{}%
324 }%
```

5.2.6 Declarations

```
Textual Data Creates the required textual data entries.
```

```
325 \CreateData{address}%
```

326 \CreateData{regnumber}%

327 \CreateData{firstreviewerdata}%

328 \CreateData{secondreviewerdata}%

Persons Creates the required person entries.

```
329 \CreatePerson{author}%
```

330 \CreatePerson{advisor}%

331 \CreatePerson{secondadvisor}%

332 \CreatePerson{firstassistant}%

333 \CreatePerson{secondassistant}%

334 \CreatePerson{thirdassistant}%

335 \CreatePerson{firstreviewer}%

336 \CreatePerson{secondreviewer}%

Languages

Adds the desired languages to the polylingual expressions. All added languages have to be given as arguments to the babel package.

```
337 \AddLanguage{english}%
```

338 \AddLanguage{naustrian}%

PolyLinguals Creates the polylingual expressions.

```
339 \CreatePolylingual[
```

340 english=Advisor,

341 naustrian=Betreuung]{Advisor}%

 $342 \verb|\CreatePolylingual[|$

343 english=Second advisor,

344 naustrian=Zweitbetreuung]{Secondadvisor}%

345 \CreatePolylingual[

346 english=submitted in partial fulfillment of the requirements

347 for the degree of,

348 naustrian=zur Erlangung des akademischen Grades] ${submission}$ %

349 \CreatePolylingual[

350 english=in,

351 naustrian=im Rahmen des Studiums]{in}%

352 \CreatePolylingual[

353 english=within the]{within}%

354 \CreatePolylingual[

355 english=Vienna PhD School of Informatics]{School}%

```
356 \CreatePolylingual[
     english=by,
357
     naustrian=eingereicht von]{by}%
358
359 \CreatePolylingual[
     english=Registration Number,
     naustrian=Matrikelnummer]{Registrationnumber}%
362 \CreatePolylingual[
     english=to the Faculty of Informatics,
     naustrian=an der Fakult\"at f\"ur Informatik]{faculty}%
365 \CreatePolylingual[
366
     english=at the TU Wien,
     naustrian=der Technischen Universit\"at Wien]{university}%
368 \CreatePolylingual[
369
     english=Assistance,
     naustrian=Mitwirkung]{Assistance}%
370
371 \CreatePolylingual[
     english=The dissertation has been reviewed by:,
    naustrian=Diese Dissertation haben begutachtet:]{Reviewed}%
374 \CreatePolylingual[
     english=External reviewers:]{Reviewers}%
376 \CreatePolylingual[
     english=Vienna,
377
    naustrian=Wien]{Place}%
378
379 \CreatePolylingual[
     english=Declaration of Authorship,
     naustrian=Erkl\"arung zur Verfassung der Arbeit]{StatementChapter}%
382 \CreatePolylingual[
     english={I hereby declare that I have written this Doctoral Thesis
383
       independently, that I have completely specified the utilized
384
       sources and resources and that I have definitely marked all parts
385
       of the work - including tables, maps and figures - which belong
386
387
       to other works or to the internet, literally or extracted, by
388
       referencing the source as borrowed.},
    naustrian={Hiermit erkl\"are ich, dass ich diese Arbeit
389
       selbst\"andig verfasst habe, dass ich die verwendeten Quellen
390
       und Hilfsmittel vollst\"andig angegeben habe und dass ich die
391
       Stellen der Arbeit -- einschlie{\ss}lich Tabellen, Karten und
392
393
       Abbildungen --, die anderen Werken oder dem Internet im Wortlaut
       oder dem Sinn nach entnommen sind, auf jeden Fall unter Angabe
394
       der Quelle als Entlehnung kenntlich gemacht habe.}]{Statement}%
Degree titles.
396 \CreatePolylingual[
     english=Bachelor of Science,
397
     naustrian=Bachelor of Science]{Bdeg}%
399 \CreatePolylingual[
     english=Master of Science,
     naustrian=Master of Science]{MdegMaster}%
402 \CreatePolylingual[
```

```
english=Diplom-Ingenieur,
          naustrian=Diplom-Ingenieur]{MdegDiplMale}%
404
405 \CreatePolylingual[
         english=Diplom-Ingenieurin,
          naustrian=Diplom-Ingenieurin]{MdegDiplFemale}%
407
408 \CreatePolylingual[
         english=Magister der Naturwissenschaften,
         naustrian=Magister der Naturwissenschaften]{MdegRerNatMale}%
411 \CreatePolylingual[
         english=Magistra der Naturwissenschaften,
         naustrian=Magistra der Naturwissenschaften]{MdegRerNatFemale}%
414 \CreatePolylingual[
          english=Magister der Sozial- und Wirtschaftswissenschaften,
          naustrian=Magister der Sozial- und Wirtschaftswissenschaften]{%
416
          MdegRerSocOecMale}%
417
418 \CreatePolylingual[
          english=Magistra der Sozial- und Wirtschaftswissenschaften,
         naustrian=Magistra der Sozial- und Wirtschaftswissenschaften]{%
420
          MdegRerSocOecFemale}%
421
422 \CreatePolylingual[
          english=Doktor der Naturwissenschaften,
          naustrian=Doktor der Naturwissenschaften]{DdegRerNatMale}%
425 \CreatePolylingual[
          english=Doktorin der Naturwissenschaften,
426
          \verb|naustrian=Doktorin| der Naturwissenschaften]{DdegRerNatFemale}|% \cite{Constraint}| \
427
428 \CreatePolylingual[
          english=Doktor der Technischen Wissenschaften,
429
          naustrian=Doktor der Technischen Wissenschaften]{DdegTechnMale}%
430
431 \CreatePolylingual[
          english=Doktorin der Technischen Wissenschaften,
432
          naustrian=Doktorin der Technischen Wissenschaften]{DdegTechnFemale}%
434 \CreatePolylingual[
435
          english=Doktor der Sozial- und Wirtschaftswissenschaften,
436
         naustrian=Doktor der Sozial- und Wirtschaftswissenschaften] {%
          DdegRerSocOecMale}%
437
438 \CreatePolylingual[
          english=Doktorin der Sozial- und Wirtschaftswissenschaften,
439
          naustrian=Doktorin der Sozial- und Wirtschaftswissenschaften]{%
440
          DdegRerSocOecFemale}%
442 \CreatePolylingual[
          english=Doctor of Technical Sciences]{%
444
         Pdeg}%
Thesis types.
445 \CreatePolylingual[
        english=BACHELOR'S THESIS,
          naustrian=BACHELORARBEIT] {BACHELORTHESIS}%
448 \CreatePolylingual[
449 english=MASTER'S THESIS,
```

```
451 \CreatePolylingual[
                           452 english=DIPLOMA THESIS,
                           453 naustrian=DIPLOMARBEIT]{DIPLOMATHESIS}%
                           454 \CreatePolylingual[
                           455 english=DISSERTATION,
                           456 naustrian=DISSERTATION]{DOCTORTHESIS}%
                           457 \CreatePolylingual[
                           458 english=PhD THESIS]{PHDTHESIS}%
                \settitle Sets the title of the thesis.
                           459 \newcommand{\settitle}[2]{%
                           460 \CreatePolylingual[english=#1,naustrian=#2]{Title}%
                           461 }%
              \setsubtitle Sets the subtitle of the thesis.
                           462 \newcommand{\setsubtitle}[2]{%
                           463 \CreatePolylingual[english=#1,naustrian=#2]{Subtitle}%
                           464 }%
            \setcurriculum
                           Sets the curriculum name.
                           465 \newcommand{\setcurriculum}[2]{%
                           466 \CreatePolylingual[english=#1,naustrian=#2]{Curriculum}%
                           467 }%
                           5.3
                                  Layout
                           5.3.1 Setup
   \vutinfth@squarebullet
                           Set internal convenience macros.
                           468 \newcommand{\newsetlength}[2]{%
                                \newlength{#1}%
                                \setlength{#1}{#2}%
                           470
                           471 }%
                           472 \end{with 0 square bullet} {\tt [0.47ex] \{0.4ex\} \{0.4ex\} \}\% }
                           Temporary storage for page layout lengths.
  \vutinfth@tmp@parindent
\vutinfth@tmp@baselineskip
                           473 \newlength{\vutinfth@tmp@parindent}%
     \vutinfth@tmp@parskip
                           474 \newlength{\vutinfth@tmp@baselineskip}%
                           \vutinfth@savelayout
                           Saves and restores relevant page layout lengths.
  \vutinfth@restorelayout
```

naustrian=MASTERARBEIT]{MASTERTHESIS}%

```
476 \newcommand{\vutinfth@savelayout}{%
     \setlength{\vutinfth@tmp@parindent}{\parindent}%
477
     \setlength{\vutinfth@tmp@baselineskip}{\baselineskip}%
478
     \setlength{\vutinfth@tmp@parskip}{\parskip}%
479
480 }%
481 \verb|\newcommand{\vutinfth@restorelayout}{{\%}}
482
     \setlength{\parindent}{\vutinfth@tmp@parindent}%
     \setlength{\baselineskip}{\vutinfth@tmp@baselineskip}%
483
     \setlength{\parskip}{\vutinfth@tmp@parskip}%
484
485 }%
```

5.3.2 Title Page

Initialize the header graphics. The vertical placement of the header graphics on the title pages are given by \vutinfth@header@placement, while the composition of the graphical elements are determined by the subsequent lengths, which constitute direct measurements of the graphics. If the header graphics are changed, these values have to be adapted.

```
486 \newsetlength{\vutinfth@header@placement}{-41.49731pt}%

487 \newsetlength{\vutinfth@bar@width}{511bp}%

488 \newsetlength{\vutinfth@bar@height}{47bp}%

489 \newsetlength{\vutinfth@bar@pivot@x}{330.71bp}%

490 \newsetlength{\vutinfth@bar@pivot@y}{25.31bp}%

491 \newsetlength{\vutinfth@logo@height}{46bp}%

492 \newsetlength{\vutinfth@logo@pivot@x}{4.57bp}%

493 \newsetlength{\vutinfth@logo@pivot@y}{5.37bp}%

494 \newsetlength{\vutinfth@logo@ffset@height}{\vutinfth@logo@height}

495 + \vutinfth@bar@pivot@y - \vutinfth@logo@pivot@y}%

496 \newsetlength{\vutinfth@logo@offset@x}{-\vutinfth@bar@width}

497 + \vutinfth@bar@pivot@x - \vutinfth@logo@pivot@x}%

498 \newsetlength{\vutinfth@logo@offset@y}{

499 - \vutinfth@bar@pivot@y + \vutinfth@logo@pivot@y}%
```

\vutinfth@header@titlepage

Initialize header.

```
500 \newcommand{\vutinfth@header@titlepage}{%
501
     \centering
     \begin{minipage}[b][\vutinfth@logo@offset@height][t]{%
502
503
         \vutinfth@bar@width
504
       \includegraphics{TU_INF_header}%
505
       \hspace*{\vutinfth@logo@offset@x}%
506
       \raisebox{\vutinfth@logo@offset@y}{%
507
         \includegraphics[scale=1]{TU_INF_Logo_gray}%
508
       }%
509
     \end{minipage}%
511 }%
```

```
\vutinfth@footer@titlepage
                                                                                                       Initialize footer.
                                                                                                        512 \verb|\newcommand{\vutinfth@footer@titlepage}{%} % \label{fig:sigma} % \label{fig:si
                                                                                                                          \centering
                                                                                                        513
                                                                                                        514
                                                                                                                          \begin{minipage}{\textwidth}%
                                                                                                                                \centering\vutinfth@normalsize\sffamily
                                                                                                        515
                                                                                                        516
                                                                                                                                Technische Universit\"{a}t Wien\\
                                                                                                                                A-1040 Wien \vutinfth@squarebullet\space
                                                                                                        517
                                                                                                                                Karlsplatz 13 \vutinfth@squarebullet\space
                                                                                                        518
                                                                                                        519
                                                                                                                                Tel. +43-1-58801-0 \vutinfth@squarebullet\space
                                                                                                        520
                                                                                                                                www.tuwien.ac.at%
                                                                                                                       \end{minipage}%
                                                                                                        521
                                                                                                        522 }%
                                                                                                       Generate the title page style.
vutinfth@pagestyle@titlepage
                                                                                                        523 \makepagestyle{vutinfth@pagestyle@titlepage}%
                                                                                                        524 \makerunningwidth{vutinfth@pagestyle@titlepage} [\textwidth] {%
                                                                                                                         \vutinfth@bar@width}%
                                                                                                        526 \makeheadposition{vutinfth@pagestyle@titlepage}{%
                                                                                                                          center}{center}{center}%
                                                                                                        528 \makeevenhead{vutinfth@pagestyle@titlepage}{}{%
                                                                                                                         \vutinfth@header@titlepage}{}%
                                                                                                        530 \makeoddhead{vutinfth@pagestyle@titlepage}{}{%
                                                                                                                         \vutinfth@header@titlepage}{}%
                                                                                                        532 \makefootrule{vutinfth@pagestyle@titlepage}{%
                                                                                                                         \vutinfth@pagestyle@titlepagefootrunwidth}{0.5pt}{\footruleskip}%
                                                                                                        534 \makeevenfoot{vutinfth@pagestyle@titlepage}{}{%
                                                                                                                         \vutinfth@footer@titlepage}{}%
                                                                                                        536 \makeoddfoot{vutinfth@pagestyle@titlepage}{}{%
                                                                                                        537 \vutinfth@footer@titlepage}{}%
                                                                                                        Set style element specifications.
                                                                                                        538 \verb|\newsetlength{\vutinfth@bigskipamount}{6mm}| % \cite{Minimal Content of the content of t
                                                                                                        Helper functions.
                                                                                                        539 \newcommand{\vutinfth@bigskip}{\vspace{\vutinfth@bigskipamount}}%
                                                    \AdvisorBlock
                                                                                                       Generates a block with the advisor's name (and potential assistances' names). An
                                                                                                        error is thrown, if the advisors are not defined consecutively, starting with the
                                                                                                        540 \newcommand{\AdvisorBlock}{%
                                                                                                        541
                                                                                                                        \ifundergraduate{%
                                                                                                        542
                                                                                                                                 \begin{minipage}[t][2.5cm][t]{\textwidth}%
                                                                                                        543
                                                                                                                                        \vutinfth@normalsize
                                                                                                        544
                                                                                                                                        \begin{tabular}{0{}10{}}1%
                                                                                                        545
                                                                                                                                               \vutinfth@polylingual@Advisor: &
```

```
\vutinfth@person@advisor@fullname\\
546
            \ifdef{\vutinfth@person@firstassistant@def}{%
547
              \vutinfth@polylingual@Assistance: &
548
              \vutinfth@person@firstassistant@fullname\\
549
550
           }{}%
            \ifdef{\vutinfth@person@secondassistant@def}{%
551
552
              \ifundef{\vutinfth@person@firstassistant@def}{%
553
                \vutinfth@person@firstassistant@error
             }{%
554
                & \vutinfth@person@secondassistant@fullname\\
555
             }%
556
           }{}%
            \ifdef{\vutinfth@person@thirdassistant@def}{%
558
              \ifundef{\vutinfth@person@firstassistant@def}{%
559
                \vutinfth@person@firstassistant@error
560
             }{%
561
                \ifundef{\vutinfth@person@secondassistant@def}{%
562
                  \vutinfth@person@secondassistant@error
563
               }{%
564
565
                  & \vutinfth@person@thirdassistant@fullname\\
              }%
566
            }%
567
          }{}%
568
         \end{tabular}%
569
570
       \end{minipage}%
     }%
571
     \ifgraduate{%
572
       \begin{minipage}[t][1.6cm][t]{\textwidth}%
573
         \vutinfth@normalsize
574
         \vutinfth@polylingual@Advisor:
575
         \vutinfth@person@advisor@fullname
576
577
         \ifdef{\vutinfth@person@secondadvisor@def}{%
578
            \vutinfth@polylingual@Secondadvisor:
579
           \vutinfth@person@secondadvisor@fullname
580
         }{}%
581
582
       \end{minipage}\par%
583
     }%
584 }%
Set lengths of the signature blocks.
```

\vutinfth@signature@height \vutinfth@signature@width \vutinfth@placedate@width

```
585 \mbox{ }\mbox{\ensuremath{\mbox{cheight}{25mm}}\mbox{\ensuremath{\mbox{m}}}\mbox{\ensuremath{\mbox{m}}}\mbox{\ensuremath{\mbox{m}}}\mbox{\ensuremath{\mbox{cheight}{\mbox{\mbox{\mbox{\mbox{m}}}}\mbox{\ensuremath{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m}\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m}\m}\mbox{\mbox{\m
586 \newsetlength{\vutinfth@signature@width}{51mm}%
587 \newsetlength{\vutinfth@placedate@width}{50mm}%
```

\SignatureFields

Generates a block with signatures and an optional place-date entry. The first argument is optional and adds an entry with date and place [y], or adds corresponding whitespace [h] or adds nothing [n], which is also the default value. The second arguments adds a rule and the given text below it, if a text is given, or the corresponding whitespace, if not. The third argument adds a rule and the given text below it, if a text is given.

```
588 \newcommand{\SignatureFields}[3][n]{%
     {\vutinfth@normalsize
590
       \left\{ \frac{41}{y}\right\} 
          \begin{minipage}[b][\vutinfth@signature@height]{%
591
592
              \vutinfth@placedate@width
            }%
593
            \vutinfth@polylingual@Place,
594
            \displaydate{vutinfth@date@signing}\vspace*{\baselineskip}%
595
596
         \end{minipage}%
         \hfill
597
       }{}%
598
       \left\{ 1\right\} 
599
       \left\{ \frac{41}{h}\right\} 
600
         \hspace*{\vutinfth@placedate@width}%
601
602
         \hfill
603
       }{}%
       \ifstrempty{#2}{%
604
605
          \hspace*{\vutinfth@signature@width}%
606
       }{%
607
          \begin{minipage}[b][\vutinfth@signature@height]{%
608
609
              \vutinfth@signature@width
610
611
            \centering
            \rule{\vutinfth@signature@width}{0.5pt}\\
612
            #2%
613
         \end{minipage}%
614
615
         \hfill
616
       \left\{ \frac{43}{3} \right\}
617
          \begin{minipage}[b][\vutinfth@signature@height]{%
618
619
              \vutinfth@signature@width
            }%
620
621
            \centering
622
            \rule{\vutinfth@signature@width}{0.5pt}\\
623
624
          \end{minipage}%
625
       }%
    }%
626
627 }%
```

\ReviewerBlock Generates a block with the relevant signatures.

```
628 \newcommand{\ReviewerBlock}{%
629 \ifgraduate{%
630 \ifdoctor{%
```

```
631
         {\vutinfth@normalsize
            \vutinfth@polylingual@Reviewed\\
632
            \SignatureFields[h]{%
633
              \vutinfth@person@firstreviewer@name
634
           }{%
635
636
              \vutinfth@person@secondreviewer@name
           }%
637
         }%
638
       }%
639
       \ifphd{%
640
         {\vutinfth@normalsize
641
            \vutinfth@polylingual@Reviewers\\
642
643
            \vutinfth@person@firstreviewer@name.
            \vutinfth@data@firstreviewerdata.\\
644
            \vutinfth@person@secondreviewer@name.
645
            \vutinfth@data@secondreviewerdata.\\
646
         }%
647
       }%
648
649
     }%
650 }%
```

\SignatureBlock Generates a block with the relevant signatures.

```
651 \newcommand{\SignatureBlock}{%
652
     \ifundergraduate{%
        {\vutinfth@normalsize
653
          \SignatureFields[y]{%
654
            \vutinfth@person@author@name
655
          }{%
656
657
            \vutinfth@person@advisor@name
          }%
658
       }%
659
660
     }%
661
     \ifgraduate{%
        {\vutinfth@normalsize
662
663
          \ifdoctor{%
664
            \SignatureFields[y]{}{%
665
              \vutinfth@person@author@name
            }%
666
          }%
667
          \left\{ \right\}
668
            \SignatureFields[y]{%
669
              \vutinfth@person@author@name
670
671
              \vutinfth@person@advisor@name
672
673
            }%
674
          }%
675
       }%
     }%
676
677 }%
```

\AddTitlePage Generates the language-dependant title page. Multiline title and subtitle are supported.

```
678 \newcommand{\AddTitlePage}{
679 \thispagestyle{vutinfth@pagestyle@titlepage}}%
```

Set a new page geometry where the header separation length (headsep) places the header. The actual header height (head) has to be large enough to contain the header content otherwise the underlying memoir class issues a warning.

```
680 \newgeometry{%

681 left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,

682 headsep=\vutinfth@header@placement,

683 head=2\vutinfth@logo@offset@height

684 }%
```

Save the current page layout lengths for later restoration.

```
685 \vutinfth@savelayout
686 \setlength{\parindent}{0pt}%
687 \setlength{\baselineskip}{13.6pt}%
688 \setlength{\parskip}{0pt plus 1pt}%
```

Set title page text to helvetica.

```
689 \begin{SFFont}{phv}%
690 \sffamily
691 {\centering
692 \vspace*{1.2cm}\par
```

Title and subtitle are bottom aligned and grow upwards.

```
693
         \begin{minipage}[t][5cm][b]{\textwidth}%
694
           \vutinfth@HUGE{\bfseries\vutinfth@polylingual@Title}\\
695
           \bigskip
696
697
           \vutinfth@huge{\bfseries
             \ifdef{\vutinfth@polylingual@Subtitle}{%
698
                \vutinfth@polylingual@Subtitle}{%
699
             }%
700
           }%
701
702
         \end{minipage}\par
         \vutinfth@bigskip\vutinfth@bigskip
703
         {\vutinfth@LARGE\vutinfth@polylingual@thesisname}\par
704
         \vutinfth@bigskip
705
706
         {\vutinfth@large\vutinfth@polylingual@submission}\par
707
         \vutinfth@bigskip
708
         \ifundergraduate{%
           {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
709
710
           \vutinfth@bigskip
           {\vutinfth@large\vutinfth@polylingual@in}\par
711
```

```
712
                                                              \vutinfth@bigskip
                                                              {\vutinfth@Large{\bfseries\vutinfth@polylingual@Curriculum}}\par
713
                                                  }%
714
                                                  \ifgraduate{%
715
                                                             {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
716
717
                                                             \ifphd{%
718
                                                                        \vutinfth@bigskip
                                                                        {\vutinfth@large\vutinfth@polylingual@within}\par
719
                                                                        \vutinfth@bigskip
720
                                                                        {\tt \{\vutinfth@LARGE\{\bfseries\vutinfth@polylingual@School\}}\pareset{the polylingual of the polylingual of 
721
                                                           }%
722
                                                  }%
723
724
                                                  \vutinfth@bigskip
                                                  {\vutinfth@large\vutinfth@polylingual@by}\par
725
                                                  \vutinfth@bigskip
726
                                                  {\tt \{\vutinfth@Large\{\bfseries\vutinfth@person@author@fullname\}}\parset{the person@author@fullname}}\parset{the person@author@fullname}\parset{the person@author.}\parset{the person@author.}\parset{the person.}\parset{the person.}\
727
                                                  \smallskip
728
                                                  {\tt \{\vutinfth@large\vutinfth@polylingual@Registrationnumber\}}
729
730
                                                  \vutinfth@data@regnumber}\par
731
                                       \vutinfth@bigskip\vutinfth@bigskip
732
                                       733
                                       \begin{minipage}[b][1.6cm][c]{\textwidth}%
734
                                                  \vutinfth@normalsize%
735
                                                  \vutinfth@polylingual@faculty\par
736
737
                                                  \vutinfth@polylingual@university
                                        \end{minipage}\par
738
                                       \AdvisorBlock\par
739
```

Add stretchable glue between the advisor block and the signatures. This ensures that the signature part is always at the bottom of the page.

```
\vfill
740
       \ReviewerBlock\par
741
       \SignatureBlock\par
742
       \vspace*{1cm}%
743
     \end{SFFont}%
744
     \pagestyle{empty}%
745
     \cleardoublepage
746
747
     \vutinfth@restorelayout
748
     \restoregeometry
749 }%
```

5.3.3 Front Matter Material

\AddStatementPage Generates the statement page.

750 \newcommand{\AddStatementPage}{

```
Set the same page geometry as for the titlepages.
```

```
751 %^^A \newgeometry{%
752 %^^A
            left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
753 %^^A
            headsep=\vutinfth@header@placement,
754 %^^A
            head=2\vutinfth@logo@offset@height
755 %^^A }%
Save the current page layout lengths for later restoration.
      \vutinfth@savelayout
756
757
      \setlength{\parindent}{0pt}%
      \setlength{\baselineskip}{13.6pt}%
758
759
      \setlength{\parskip}{Opt plus 1pt}%
      \begin{SFFont}{phv}%
760
761
        \sffamily
          \chapter*{\vutinfth@polylingual@StatementChapter}%
762
          \vutinfth@person@author@fullname\\
763
764
          \vutinfth@data@address\par
765
          \vspace{1.2cm}%
          {\normalfont\vutinfth@polylingual@Statement}\par
766
          \vspace{1.2cm}%
767
          \SignatureFields[y]{\vutinfth@person@author@name}{}%
768
      \end{SFFont}%
769
      \cleardoublepage
770
     \vutinfth@restorelayout
772 %^^A \restoregeometry
773 }%
Generates the titlepage in given language.
774 \newcommand{\addtitlepage}[1]{%
     \selectlanguage{#1}%
775
     \AddTitlePage
776
777 }%
Generates the statement page.
778 \newcommand{\addstatementpage}{%
     \selectlanguage{naustrian}%
      \ifundergraduate{\AddStatementPage}%
780
      \ifgraduate{%
781
        \ifdoctor{\AddStatementPage}%
782
        \ifphd{%
783
          \selectlanguage{english}%
784
          \AddStatementPage
785
       }%
```

\addtitlepage

\addstatementpage

787

}% 788 }%

```
acknowledgements Generates the English acknowledgement section.
                   789 \newenvironment{acknowledgements}{%
                        \selectlanguage{english}%
                         \chapter{Acknowledgements}%
                   792 }{%
                        \cleardoublepage
                   793
                   794 }%
                   Generates the English acknowledgement section without an entry in the table of
acknowledgements*
                   contents.
                   795 \newenvironment{acknowledgements*}{%
                        \selectlanguage{english}%
                        \chapter*{Acknowledgements}%
                   798 }{%
                   799 \cleardoublepage
                   800 }%
                   Generates the German acknowledgement section.
       danksagung
                   801 \newenvironment{danksagung}{%
                   802
                        \selectlanguage{naustrian}%
                   803
                         \chapter{Danksagung}%
                   804 }{%
                   805
                        \cleardoublepage
                   806 }%
                   Generates the German acknowledgement section without an entry in the table of
      danksagung*
                   807 \newenvironment{danksagung*}{%
                        \selectlanguage{naustrian}%
                        \chapter*{Danksagung}%
                   809
                   810 }{%
                   811
                       \cleardoublepage
                   812 }%
         abstract Generates the English abstract.
                   813 \renewenvironment{abstract}{%
                        \selectlanguage{english}%
                   814
                   815
                        \chapter{Abstract}%
                   816 }{%
                   817
                        \cleardoublepage
                   818 }%
```

```
819 \newenvironment{abstract*}{%
                                 \selectlanguage{english}%
                                 \chapter*{Abstract}%
                            821
                            822 }{%
                            823
                                \cleardoublepage
                            824 }%
                           Generates the German abstract without an entry in the table of contents.
               kurzfassung
                            825 \newenvironment{kurzfassung}{%
                                \selectlanguage{naustrian}%
                                 \chapter{Kurzfassung}%
                            828 }{%
                            829 \cleardoublepage
                            830 }%
                            Generates the German abstract.
              kurzfassung*
                            831 \newenvironment{kurzfassung*}{%
                                 \selectlanguage{naustrian}%
                                 \chapter*{Kurzfassung}%
                            833
                            834 }{%
                            835
                                 \cleardoublepage
                            836 }%
                            5.3.4 Page Style
                           Define the default page style of the thesis.
vutinfth@pagestyle@default
                            837 \makepagestyle{vutinfth@pagestyle@default}%
                            839 \verb|\makeoddfoot{vutinfth@pagestyle@default}{}{}{\thepage}{}\% \\
              \frontmatter
                            Apply the default page style to the thesis.
               \mainmatter
                            840 \aliaspagestyle{chapter}{vutinfth@pagestyle@default}%
               \backmatter
                            841 \aliaspagestyle{part}{vutinfth@pagestyle@default}%
                            842 \addto\frontmatter{\pagestyle{vutinfth@pagestyle@default}}%
                            843 \addto\mainmatter{\pagestyle{Ruled}}%
                            844 \add to \backmatter{\pagestyle{vutinfth@pagestyle@default}}\%
                                 Change History
                            v0.9
                                                                  v1.0
                               General: Pre-release version . . . . . 1
                                                                      General: Initial release version . . . 1
```

| v1.1 | dissertation types. Issue $#4$ 17 |
|-------------------------------------|----------------------------------------------|
| General: Added references to the | \vutinfth@thesis@doctortype@phd: |
| GitLab environment 1 | Added to support multiple |
| v1.3 | dissertation types. Issue $#4$ 17 |
| \AddStatementPage: Updated to | \vutinfth@thesis@phd: Added to |
| support multiple languages. | support multiple dissertation |
| Issue #4 31 | types. Issue #4 18 |
| \AddTitlePage: Added check for | General: Added support for a |
| subtitle existance before usage. | dissertation at the Vienna Phd |
| Issue #1 30 | School of Informatics. Issue #4 1 |
| Updated to support PhD School | Persons: Updated to support |
| mentioning and fixed the | second advisor. Issue Issue #4 21 |
| associated vertical overflow. | PolyLinguals: Added to support |
| Issue #4 30 | multiple dissertation types. |
| \AdvisorBlock: Updated to | Issue #4 21 |
| support second advisor. Issue | Textual⊔Data: Updated to support |
| $#4 \dots 26$ | external reviewer data. Issue |
| \ReviewerBlock: Updated to | #4 21 |
| support external reviewers. | v1.4 |
| Issue #4 28 | \mainmatter: Added 'Ruled' |
| \SignatureBlock: Updated to | pagestyle |
| support multiple dissertation | \vutinfth@def@person: Added |
| types. Issue #4 29 | comma to separate posttitle. 12 |
| \addstatementpage: Updated to | General: Added comma to |
| support english version. Issue | separate posttitle and changed |
| $#4 \dots 32$ | mainmatter pagestyle to |
| \ifdoctor: Added to support | 'Ruled' 1 |
| multiple dissertation types. | v1.5 |
| Issue #4 17 | General: Updated name of |
| \ifphd: Added to support multiple | university to 'TU Wien' 1 |
| dissertation types. Issue $\#4$ 17 | PolyLinguals: Updated name of |
| \setthesis: Altered to support | university to 'TU Wien' 21 |
| multiple dissertation types. | v1.6 |
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