The vutinfth class*

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Abstract

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

^{*}This document corresponds to vutinfth v1.13, dated 2024/05/29.

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Introduction 1

This class provides a LATEX 2ε template for all theses at TU Wien Informatics. Further information on the document class and accompanying support can be found at https://gitlab.com/ThomasAUZINGER/vutinfth. Further guidelines may apply to both the format and structure of certain theses. These can be found at https://informatics.tuwien.ac.at/study-services. Thesis authors are advised to consult Section 3 for a documentation of all relevant commands. Information for class developers is provided in Section 4.

$\mathbf{2}$ **Known Issues**

This class is incompatible with the minitor 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

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

\setfirstreviewerdata \setsecondreviewerdata

Command	Role	Type	Optional
\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 ^P	Name of the curriculum	В, М	No

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

Command	Role	Type	Optional
\setfirstreviewerdata	Affiliation and country of first reviewer	D	No
\setsecondreviewerdata	Affiliation and country of second reviewer	D	No
Types: Bachelor (B), Master (M), Doctoral (D), All (All)			

3.1.2 Persons

\setauthor All commands in this section are called with four mandatory arguments, e.g., as $\$ \command{\langle pretitle \} {\langle name \} {\langle posttitle \} {\langle gender \rangle \}, where \langle name \rangle defines both \setsecondadvisor the first name(s) and family name(s) of the person. A title that is placed before \setfirstassistant the name is assigned with $\langle pretitle \rangle$, while a trailing title is given with $\langle posttitle \rangle$. \setsecondassistant Both $\langle pretitle \rangle$ and $\langle posttitle \rangle$ can be left empty, to indicate an absence of such \setthirdassistant a title; the insertion of appropriate glue between titles and names is handled by \setfirstreviewer the vutinfth class. The declaration of the persons gender via $\langle gender \rangle$ allows \setsecondreviewer 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	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	No	
\setsecondreviewer Second thesis reviewer D No			No	
Types: Bachelor (B), Master (M), Doctoral (D), All (All)				

3.1.3 Dates

\setdate All commands in this section are called with three madatory arguments, e.g., as $\command{\langle day \rangle} {\langle month \rangle} {\langle year \rangle}$. These commands derive from the \DTMsavedate command of the datetime2 package. The following dates can be set:

Command	Role	Type	Optional
\setdate	Signing date	All	No
Types: Bachelor (B), Master (M), Doctoral (D), 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 $\backslash command \dots \{\langle list \rangle\} \dots$, where $\langle list \rangle$ is given one element from a set of possible arguments.

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

Command	Options	Description
$- \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	male female	Specifies a male person. Specifies a female person.

No pronouns are generated based on the gender choice and it should be chosen in a way to reflect the preferred use of nouns (e.g., Autor or Autorin in German).

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

Command	Options	Description
\setthesis{ $\langle list \rangle$ }	bachelor master doctor	Specifies a bachelor's thesis. Specifies a master's thesis. Specifies a dissertation.

\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 enrolled in:

Command	Options	Description
\setmasterdegree $\{\langle list \rangle\}$	dipl.	Specifies the degree 'Diplom-Ingenieur(in)'.
	master	Specifies the degree 'Master of Science'.
	rer.nat.	Specifies the degree '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 Natur- wissenschaften'.
	rer.soc.oec.	Specifies the degree 'Doktor(in) der Sozial- und Wirtschaftswissenschaften'.

Polylingual Data 3.1.5

\setcurriculum Used as \setcurriculum{ $\langle english \rangle$ }{ $\langle german \rangle$ }, it sets the name of the curriculum that the student is enroled in. The name can be given in English, with $\langle english \rangle$, and in German, with $\langle qerman \rangle$. 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 $\{\langle english\rangle\}$ { $\langle qerman\rangle\}$, 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
$\verb \addtitlepage{ \langle list \rangle }$	english naustrian	Generates an English title page. Generates a German title page.

3.2Layout

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{ $\langle lanq \rangle$ }, where $\langle lanq \rangle$ 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{document}\frontmatter.

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

acknowledgements (env.) Used as \begin{acknowledgements}\ $\langle text \rangle$ \end{acknowledgements}, this enviacknowledgements* (env.) ronment generates a chapter with the English acknowledgements. Use the starred version, i.e., acknowledgements*, to remove the table of content entry of this environment.

danksagung (env.) Used as $\ensuremath{\mbox{begin}{\mbox{danksagung}}\mbox{$\langle text\rangle$}\ensuremath{\mbox{end}{\mbox{danksagung}}$}$, this environment gener-danksagung* (env.) ates a chapter with the German acknowledgements. Use the starred version, i.e., danksagung*, to remove the table of content entry of this environment.

abstract (env.) Used as \begin{abstract}\\text\\end{abstract}, this environment generates a abstract* (env.) chapter with the English abstract. Use the starred version, i.e., abstract*, to remove the table of content entry of this environment.

kurzfassung (env.) Used as $\ensuremath{\texttt{begin}\{kurzfassung\}}\ensuremath{\texttt{kurzfassung}\}}$, this environment genkurzfassung* (env.) erates 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 \CreateData{ $\langle name \rangle$ }, it generates a command \set $\langle name \rangle$. Used as \set $\langle name \rangle$ { $\langle string \rangle$ }, the newly created command assigns the value $\langle string \rangle$ to the internal variable \vutinfth@data@ $\langle name \rangle$. The variable is initialized with an error value to alert the user of the fact that $\langle string \rangle$ was not supplied via the \set $\langle name \rangle$ command. Furthermore, a command \vutinfth@data@ $\langle name \rangle$ @def is created, to increase source code readability when verifying the existence of a specific data item. See Section 5.2.6 for examples.

\CreatePerson Used as \CreatePerson{ $\langle name \rangle$ }, it generates a command \set $\langle name \rangle$. Used as \set $\langle name \rangle$ { $\langle pretitle \rangle$ }{ $\langle personname \rangle$ }{ $\langle posttitle \rangle$ }{ $\langle gender \rangle$ }, the newly created command assigns the supplied values to the corresponding internal variables \vutinfth@person@ $\langle name \rangle$ @...as given in the table below.

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

The command \vutinfth@person@\(\name\)@def is created to increase source code readability when verifying the existence of a specific person. Furthermore, the command $\forall utinfth@person@(name)@fullname$ 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.

 $\colon \colon \colon$ $\width @polylingual @(name)$$ that selects the approxiate expression based on the current language at the time of use. The argument (expressions) is a list of elements of the form $\langle expr_i \rangle$, where each element defines the expression for a valid language, e.g., $\langle lanq_i \rangle = \langle text_i \rangle$. $\langle lanq_i \rangle$ has to be chosen from the languages that were defined via \AddLanguage. 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.

4.2Layout

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 v, 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 (center). 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 (env.) 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.

- $\label{lem:condition} \mbox{$7 \neq \mathbb{R} and \mathbb{K} is all d factors $f_{0}(x) = f_{0}(x)$. }$
- 8 \RequirePackage{lmodern}%
- 9 \RequirePackage{courier}%
- 10 \RequirePackage[T1]{fontenc}%
- 11 \RequirePackage[english,naustrian]{babel}%
- 12 \RequirePackage [useregional] {datetime2}%
- 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.

\@namexdef Globally defines a control sequence with an expanded argument.

 $18 \mbox{ $\newcommand{\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{\comm$

\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 Initializes the font sizes.
\vutinfth@Large
\vutinfth@Large
\vutinfth@Large
\vutinfth@large
\vutinfth@large
\vutinfth@normalsize
\vutinf

SFFont (env.) 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.

32 \newcommand{\vutinfth@normalsize}{\fontsize{11}{13.6}\selectfont}%

```
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.

5.2.2 Textual Data

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

```
46 \newcommand{\vutinfth@def@data}[2]{%
47 \@namedef{vutinfth@data@#1@def}{}%
48 \@namedef{vutinfth@data@#1}{#2}%
49 }%
```

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

```
50 \newcommand{\vutinfth@def@data@invalid}[2]{%
51 \@namedef{vutinfth@data@#1@error}{%
52 \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
53 }%
54 \@namedef{vutinfth@data@#1}{\@nameuse{vutinfth@data@#1@error}}%
55 }%
```

\CreateData Issues the construction of a setter function for a data entry given by \setdata.

```
56 \newcommand{\CreateData}[1]{%
57 \@namedef{set#1}##1{%
58 \vutinfth@def@data{#1}{##1}%
59 }%
60 \vutinfth@def@data@invalid{#1}{\string\set#1}%
61 }%
```

5.2.3 Persons

\vutinfth@person@male Two genders a \vutinfth@person@female

\vutinfth@person@male Two genders are differentiated for each person: male and female.

- 62 \newcommand{\vutinfth@person@male}{male}%
- 63 \newcommand{\vutinfth@person@female}{female}%

\ifmale Convenience macros to determine the gender of a person.

```
\iffemale

64 \newcommand{\ifmale}[2]{%

65 \ifcsstring{vutinfth@person@#1@gender}{\vutinfth@person@male}{#2}{}%

66 }%

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}%
72
73
    \@namedef{vutinfth@person@#1@name}{#3}%
    \@namedef{vutinfth@person@#1@posttitle}{#4}%
75
    \ifdefstring{\vutinfth@person@male}{#5}{%
76
      \Onamedef{vutinfthOpersonO#1Ogender}{\vutinfthOpersonOmale}%
77
    }{}%
    \ifdefstring{\vutinfth@person@female}{#5}{%
78
      \@namedef{vutinfth@person@#1@gender}{\vutinfth@person@female}%
79
80
    }{}%
```

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

```
\ifstrempty{#3}{%
       \ifstrempty{#2}{%
         \@namedef{vutinfth@person@#1@fullname}{#4}%
83
       }{%
84
         \ifstrempty{#4}{%
85
           \@namedef{vutinfth@person@#1@fullname}{#2}%
86
 87
           \@namedef{vutinfth@person@#1@fullname}{#2 #4}%
89
         }%
       }%
90
     }{%
91
       \ifstrempty{#2}{%
92
         \ifstrempty{#4}{%
93
           \@namedef{vutinfth@person@#1@fullname}{#3}%
94
         }{%
           \Onamedef{vutinfthOpersonO#1Ofullname}{#3, #4}%
96
         }%
97
       }{%
98
         \ifstrempty{#4}{%
99
           \@namedef{vutinfth@person@#1@fullname}{#2 #3}%
100
101
102
           \Onamedef{vutinfthOpersonO#1Ofullname}{#2 #3, #4}%
103
         }%
       }%
104
```

```
105 }%
106 }%
```

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

```
107 \newcommand{\vutinfth@def@person@invalid}[2]{%
     \@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
117
     \@namedef{vutinfth@person@#1@gender}{%
118
       \@nameuse{vutinfth@person@#1@error}}%
119
     \@namedef{vutinfth@person@#1@fullname}{%
       \@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]{%
123     \@namedef{set#1}##1##2##3##4{%
124     \vutinfth@def@person{#1}{##1}{##2}{##3}{##4}%
125    }%
126    \vutinfth@def@person@invalid{#1}{\string\set#1}%
127 }%
```

5.2.4 Polylingual 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.

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

130 \@namedef{vutinfth@current@#1}{##1}%

131 }%
```

The key value is initialized as empty.

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

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.

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

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

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, **\Qnamexdef** is used the definition's scope has to be global.

```
140 \@namexdef{vutinfth@##1@#1}{%
141 \ifcsempty{vutinfth@current@#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 \@namexdef 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.

```
\lambda \newcommand{\vutinfth@selectlanguage@polylingual}[1]{\denpty}% \lambda \{\}\
```

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.

```
162 \newcommand{\CreatePolylingual}[2][]{%
163 \begingroup
```

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 \Qnamedef{vutinfthQpolylingualQ#2}{%
168 \vutinfthQselectlanguageQpolylingual{#2}}%
169}%
```

5.2.5 Thesis Types

```
th@thesis@basetype@undergraduate Two thesis categories are differentiated: undergraduate and graduate.
tinfth@thesis@basetype@graduate
                                170 \verb|\newcommand{\vutinfth@thesis@basetype@undergraduate}{\%} \\
                                171 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}{%
                                       \vutinfth@thesis@basetype@graduate
                                181
                                182 }{#1}{}%
                                183 }%
      \vutinfth@thesis@basetype Initialize the thesis category, the type and the specific degree with error messages.
    \vutinfth@thesis@thesisname
                                184 \newcommand{\vutinfth@thesis@basetype}{%
    \vutinfth@thesis@degreename
                                     \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                185
                                       Set thesis type with \string\setthesis.}%
                                186
                                187 }%
                                188 \newcommand{\vutinfth@polylingual@degreename}{%
                                     \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                       Set thesis type with \string\setthesis.}%
                                190
                                191 }%
                                192 \newcommand{\vutinfth@polylingual@thesisname}{%
                                     \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                194
                                       Set thesis type with \string\setthesis.}%
                                195 }%
      \vutinfth@thesis@bachelor Three main thesis types are differentiated: bachelor, master, and doctor.
        \vutinfth@thesis@master
                                196 \newcommand{\vutinfth@thesis@bachelor}{bachelor}%
        \vutinfth@thesis@doctor
                                197 \newcommand{\vutinfth@thesis@master}{master}%
                                198 \newcommand{\vutinfth@thesis@doctor}{doctor}%
                \@setthesisname Internal convenience macros.
                \@setdegreename
                                199 \newcommand{\@setthesisname}[1]{%
        \@setgendereddegreename
                                201 \newcommand{\@setdegreename}[1]{%
                                202 \renewcommand{\vutinfth@polylingual@degreename}{#1}}%
```

203 \newcommand{\@setgendereddegreename}[2]{%

```
\ifmale{author}{\@setdegreename{#1}}%
                                                                                      \iffemale{author}{\@setdegreename{#2}}%
                                                                          205
                                                                          206 }%
                                                 \setthesis Sets the thesis type.
                                                                          207 \newcommand{\setthesis}[1]{%
                                                                                      \ifdefstring{\vutinfth@thesis@bachelor}{#1}{%
                                                                          Initializes bachelor thesis type.
                                                                                           \renewcommand{\vutinfth@thesis@basetype}{%
                                                                          209
                                                                          210
                                                                                                \vutinfth@thesis@basetype@undergraduate}%
                                                                          211
                                                                                           \@setthesisname{\vutinfth@polylingual@BACHELORTHESIS}%
                                                                                           \@setdegreename{\vutinfth@polylingual@Bdeg}%
                                                                          212
                                                                          213
                                                                                      \ifdefstring{\vutinfth@thesis@master}{#1}{%
                                                                          Initializes master thesis type.
                                                                          215
                                                                                           \renewcommand{\vutinfth@thesis@basetype}{%
                                                                                                216
                                                                                           \@setthesisname{%
                                                                          217
                                                                                                \verb|\ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%} % and the property of t
                                                                          218
                                                                          219
                                                                                                     Set masterdegree with \string\setmasterdegree.}%
                                                                                           }%
                                                                           220
                                                                          221
                                                                                           \@setdegreename{%
                                                                          222
                                                                                                \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
                                                                                                    Set master degree with \string\setmasterdegree.}%
                                                                          223
                                                                          224
                                                                                          }%
                                                                          225
                                                                                      }{}%
                                                                                      \ifdefstring{\vutinfth@thesis@doctor}{#1}{%
                                                                          Initializes doctor thesis type.
                                                                                           \renewcommand{\vutinfth@thesis@basetype}{%
                                                                          227
                                                                                                \vutinfth@thesis@basetype@graduate}%
                                                                          228
                                                                                           \@setthesisname{\vutinfth@polylingual@DOCTORTHESIS}%
                                                                          229
                                                                                           \@setdegreename{%
                                                                          230
                                                                                                \ClassError{vutinfth}{No \string\setdoctordegree \space issued}{%
                                                                          231
                                                                                                     Set doctor degree with \string\setdoctordegree.}%
                                                                          232
                                                                          233
                                                                                          }%
                                                                          234 }{}%
                                                                          235 }%
           \vutinfth@thesis@mdeg@dipl Four master degrees can be selected: dipl., master, rer.nat., and
       \vutinfth@thesis@mdeg@master rer.soc.oec..
       \vutinfth@thesis@mdeg@rernat
                                                                          236 \newcommand{\vutinfth@thesis@mdeg@dipl}{dipl.}%
\vutinfth@thesis@mdeg@rersocoec
```

237 \newcommand{\vutinfth@thesis@mdeg@master}{master}%

```
238 \newcommand{\vutinfth@thesis@mdeg@rernat}{rer.nat.}%
                                239 \newcommand{\vutinfth@thesis@mdeg@rersocoec}{rer.soc.oec.}%
               \setmasterdegree Sets the specific master degree.
                                240 \newcommand{\setmasterdegree}[1]{%
                                     \ifdefstring{\vutinfth@thesis@mdeg@dipl}{#1}{%
                                242
                                       \@setthesisname{\vutinfth@polylingual@DIPLOMATHESIS}%
                                243
                                       \@setgendereddegreename{%
                                244
                                         \vutinfth@polylingual@MdegDiplMale
                                       }{%
                                245
                                         \vutinfth@polylingual@MdegDiplFemale
                                246
                                       }%
                                247
                                248
                                     }{}%
                                     249
                                       \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                250
                                       \@setdegreename{\vutinfth@polylingual@MdegMaster}%
                                251
                                252
                                     \ifdefstring{\vutinfth@thesis@mdeg@rernat}{#1}{%
                                253
                                       \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                254
                                255
                                       \@setgendereddegreename{%
                                         \vutinfth@polylingual@MdegRerNatMale
                                256
                                257
                                         \vutinfth@polylingual@MdegRerNatFemale
                                258
                                       }%
                                259
                                     }{}%
                                260
                                     \ifdefstring{\vutinfth@thesis@mdeg@rersocoec}{#1}{%
                                261
                                       \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                262
                                       \@setgendereddegreename{%
                                263
                                         \vutinfth@polylingual@MdegRerSocOecMale
                                264
                                265
                                       }{%
                                266
                                         \vutinfth@polylingual@MdegRerSocOecFemale
                                267
                                       }%
                                268
                                     }{}%
                                269 }%
   \vutinfth@thesis@ddeg@rernat Three doctor degrees can be selected: rer.nat., techn., and rer.soc.oec..
   \vutinfth@thesis@ddeg@techn
                                270 \newcommand{\vutinfth@thesis@ddeg@rernat}{rer.nat.}%
\vutinfth@thesis@ddeg@rersocoec
                                271 \newcommand{\vutinfth@thesis@ddeg@techn}{techn.}%
                                272 \newcommand{\vutinfth@thesis@ddeg@rersocoec}{rer.soc.oec.}%
               \setdoctordegree Sets the specific doctor degree.
                                273 \newcommand{\setdoctordegree}[1]{%
                                     \ifdefstring{\vutinfth@thesis@ddeg@rernat}{#1}{%
                                274
                                275
                                       \@setgendereddegreename{%
                                         \vutinfth@polylingual@DdegRerNatMale
                                276
                                277
                                       }{%
                                278
                                         \vutinfth@polylingual@DdegRerNatFemale
```

```
279
      }%
    }{}%
280
    \ifdefstring{\vutinfth@thesis@ddeg@techn}{#1}{%
281
      \@setgendereddegreename{%
282
        \verb|\vutinfth@polylingual@DdegTechnMale| \\
283
284
      }{%
285
        \vutinfth@polylingual@DdegTechnFemale
      }%
286
287
    }{}%
    288
      \@setgendereddegreename{%
289
        \vutinfth@polylingual@DdegRerSocOecMale
290
291
      }{%
292
        \vutinfth@polylingual@DdegRerSocOecFemale
293
      }%
    }{}%
294
295 }%
```

5.2.6 Declarations

Textual Data Creates the required textual data entries.

```
296 % ^^A\CreateData{address}%
297 \CreateData{regnumber}%
298 \CreateData{firstreviewerdata}%
299 \CreateData{secondreviewerdata}%
```

Persons Creates the required person entries.

```
300 \CreatePerson{author}%
301 \CreatePerson{advisor}%
302 \CreatePerson{secondadvisor}%
303 \CreatePerson{firstassistant}%
304 \CreatePerson{secondassistant}%
305 \CreatePerson{thirdassistant}%
306 \CreatePerson{firstreviewer}%
307 \CreatePerson{secondreviewer}%
```

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

```
308 \AddLanguage{english}% 309 \AddLanguage{naustrian}%
```

PolyLinguals Creates the polylingual expressions.

```
310 \CreatePolylingual[
311 english=Advisor,
312 naustrian=Betreuung]{Advisor}%
313 \CreatePolylingual[
```

```
314
     english=Second advisor,
     naustrian=Zweitbetreuung]{Secondadvisor}%
315
316 \CreatePolylingual[
     english=submitted in partial fulfillment of the requirements
317
318
       for the degree of,
    naustrian=zur Erlangung des akademischen Grades]{submission}%
320 \CreatePolylingual[
     english=in,
    naustrian=im Rahmen des Studiums]{in}%
322
323 \CreatePolylingual[
324
    english=by,
     naustrian=eingereicht von]{by}%
326 \CreatePolylingual[
     english=Registration Number,
327
     naustrian=Matrikelnummer]{Registrationnumber}%
328
329 \CreatePolylingual[
    english=to the Faculty of Informatics,
330
    naustrian=an der Fakult\"at f\"ur Informatik]{faculty}%
332 \CreatePolylingual[
    english=at the TU Wien,
    naustrian=der Technischen Universit\"at Wien]{university}%
335 \CreatePolylingual[
    english=Assistance,
336
    naustrian=Mitwirkung]{Assistance}%
337
338 \CreatePolylingual[
     english=The dissertation has been reviewed by:,
     naustrian=Diese Dissertation haben begutachtet:]{Reviewed}%
340
341 \CreatePolylingual[
     english=External reviewers:]{Reviewers}%
343 \CreatePolylingual[
344
    english=Vienna,
    naustrian=Wien]{Place}%
346 \CreatePolylingual[
     english=Declaration of Authorship,
     naustrian=Erkl\"arung zur Verfassung der Arbeit]{StatementChapter}%
349 \CreatePolylingual[
     english={I hereby declare that I have written this Doctoral Thesis
350
       independently, that I have completely specified the utilized
351
       sources and resources and that I have definitely marked all parts
352
       of the work - including tables, maps and figures - which belong
353
354
       to other works or to the internet, literally or extracted, by
       referencing the source as borrowed.},
355
    naustrian={Hiermit erkl\"are ich, dass ich diese Arbeit
356
       selbst\"andig verfasst habe, dass ich die verwendeten Quellen
357
       und Hilfsmittel vollst\"andig angegeben habe und dass ich die
358
359
       Stellen der Arbeit -- einschlie{\ss}lich Tabellen, Karten und
360
       Abbildungen --, die anderen Werken oder dem Internet im Wortlaut
361
       oder dem Sinn nach entnommen sind, auf jeden Fall unter Angabe
362
       der Quelle als Entlehnung kenntlich gemacht habe.}]{Statement}%
363 \CreatePolylingual[
```

```
english={I further declare that I have used generative AI tools only as an aid,
364
      and that my own intellectual and creative efforts predominate in this
365
      work. In the appendix ''Overview of Generative AI Tools Used'' I have
366
      listed all generative AI tools that were used in the creation of this
367
368
      work, and indicated where in the work they were used. If whole passages
      of text were used without substantial changes, I have indicated the
369
370
      input (prompts) I formulated and the IT application used with its
371
      product name and version number/date.},
     naustrian={Ich erkl\"are weiters, dass ich mich generativer KI-Tools lediglich als
372
      Hilfsmittel bedient habe und in der vorliegenden Arbeit mein
373
      gestalterischer Einfluss \"uberwiegt. Im Anhang \glqq\"Ubersicht verwendeter
374
      Hilfsmittel\grqq\ habe ich alle generativen KI-Tools gelistet, die verwendet
375
      wurden, und angegeben, wo und wie sie verwendet wurden. F\"ur
376
      Textpassagen, die ohne substantielle \"Anderungen \"ubernommen wurden, haben
377
      ich jeweils die von mir formulierten Eingaben (Prompts) und die
378
      verwendete IT- Anwendung mit ihrem Produktnamen und Versionsnummer/Datum
379
      angegeben.}]{AIStatement}%
380
381 \CreatePolylingual[
     english=Overview of Generative AI Tools Used,
     naustrian=Übersicht verwendeter Hilfsmittel]{AIToolsChapter}%
Degree titles.
384 \CreatePolylingual[
    english=Bachelor of Science,
    naustrian=Bachelor of Science]{Bdeg}%
387 \CreatePolylingual[
     english=Master of Science,
    naustrian=Master of Science]{MdegMaster}%
389
```

390 \CreatePolylingual[english=Diplom-Ingenieur, naustrian=Diplom-Ingenieur]{MdegDiplMale}% 392 393 \CreatePolylingual[english=Diplom-Ingenieurin, naustrian=Diplom-Ingenieurin] {MdegDiplFemale}% 395 396 \CreatePolylingual[397 english=Magister der Naturwissenschaften, naustrian=Magister der Naturwissenschaften]{MdegRerNatMale}% 398 399 \CreatePolylingual[english=Magistra der Naturwissenschaften, naustrian=Magistra der Naturwissenschaften]{MdegRerNatFemale}% 402 \CreatePolylingual[english=Magister der Sozial- und Wirtschaftswissenschaften, 403 naustrian=Magister der Sozial- und Wirtschaftswissenschaften]{% 404 405 MdegRerSocOecMale}% 406 \CreatePolylingual[english=Magistra der Sozial- und Wirtschaftswissenschaften, naustrian=Magistra der Sozial- und Wirtschaftswissenschaften]{% MdegRerSocOecFemale}% 410 \CreatePolylingual[

```
naustrian=Doktor der Naturwissenschaften]{DdegRerNatMale}%
               412
               413 \CreatePolylingual[
               414 english=Doktorin der Naturwissenschaften,
                   naustrian=Doktorin der Naturwissenschaften]{DdegRerNatFemale}%
               416 \CreatePolylingual[
               417 english=Doktor der Technischen Wissenschaften,
               18 naustrian=Doktor der Technischen Wissenschaften]{DdegTechnMale}%
               419 \CreatePolylingual[
               420 english=Doktorin der Technischen Wissenschaften,
                    naustrian=Doktorin der Technischen Wissenschaften]{DdegTechnFemale}%
               422 \CreatePolylingual[
               423 english=Doktor der Sozial- und Wirtschaftswissenschaften,
                    naustrian=Doktor der Sozial- und Wirtschaftswissenschaften]{%
                    DdegRerSocOecMale}%
               425
               426 \CreatePolylingual[
               427 english=Doktorin der Sozial- und Wirtschaftswissenschaften,
               428 naustrian=Doktorin der Sozial- und Wirtschaftswissenschaften]{%
               429 DdegRerSocOecFemale}%
               Thesis types.
               430 \CreatePolylingual[
               431 english=BACHELOR'S THESIS,
               432 naustrian=BACHELORARBEIT] {BACHELORTHESIS}%
               433 \CreatePolylingual[
               434 english=MASTER'S THESIS,
               435 naustrian=MASTERARBEIT] {MASTERTHESIS}%
               436 \CreatePolylingual[
               437 english=DIPLOMA THESIS,
               438 naustrian=DIPLOMARBEIT] {DIPLOMATHESIS}%
               439 \CreatePolylingual[
               440 english=DISSERTATION,
                   naustrian=DISSERTATION]{DOCTORTHESIS}%
     \settitle Sets the title of the thesis.
               442 \newcommand{\settitle}[2]{%
               443 \CreatePolylingual[english=#1,naustrian=#2]{Title}%
               444 }%
 \setsubtitle Sets the subtitle of the thesis.
               445 \newcommand{\setsubtitle}[2]{%
               446 \CreatePolylingual[english=#1,naustrian=#2]{Subtitle}%
               447 }%
\setcurriculum Sets the curriculum name.
               448 \newcommand{\setcurriculum}[2]{%
```

english=Doktor der Naturwissenschaften,

```
449 \CreatePolylingual[english=#1,naustrian=#2]{Curriculum}% 450 }%
```

5.3 Layout

5.3.1 Setup

\vutinfth@squarebullet Set internal convenience macros.

```
451 \newcommand{\newsetlength}[2]{%
452 \newlength{#1}%
453 \setlength{#1}{#2}%
454 }%
455 \newcommand{\vutinfth@squarebullet}{\rule[0.47ex]{0.4ex}}%
```

\vutinfth@tmp@parindent \vutinfth@tmp@baselineskip

\vutinfth@tmp@parindent Temporary storage for page layout lengths.

.nith@tmp@baselineskip \vutinfth@tmp@parskip 456 \newlength{\vutinfth@tmp@parindent}%

457 \newlength{\vutinfth@tmp@baselineskip}% 458 \newlength{\vutinfth@tmp@parskip}%

\vutinfth@savelayout \vutinfth@restorelayout

\vutinfth@savelayout Saves and restores relevant page layout lengths.

```
459 \newcommand{\vutinfth@savelayout}{%
460 \setlength{\vutinfth@tmp@parindent}{\parindent}}%
461 \setlength{\vutinfth@tmp@baselineskip}{\baselineskip}%
462 \setlength{\vutinfth@tmp@parskip}{\parskip}%
463 }%
464 \newcommand{\vutinfth@restorelayout}{%
465 \setlength{\parindent}{\vutinfth@tmp@parindent}%
466 \setlength{\baselineskip}{\vutinfth@tmp@baselineskip}%
```

467 \setlength{\parskip}{\vutinfth@tmp@parskip}%
468 }%

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.

```
469 \newsetlength{\vutinfth@logo@offset@x}{10.6mm}%
470 \newsetlength{\vutinfth@logo@offset@y}{22mm}%
471 \newsetlength{\vutinfth@logo@width@safe}{74mm}%
472 \newsetlength{\vutinfth@logo@height}{11mm}%
473 \newsetlength{\vutinfth@header@width}{\paperwidth - \vutinfth@logo@offset@x - \vutinfth@logo@offset@x - \vutinfth@logo@offset@x - \vutinfth@logo@offset@x - \vutinfth@logo@offset@x - \vutinfth@logo@offset@x - \vutinfth@header@height}{\vutinfth@logo@height}%
475 \newsetlength{\vutinfth@header@separator}{-12mm}%
```

```
\vutinfth@header@titlepage Initialize header.
                                476 \newcommand{\vutinfth@header@titlepage}{%
                                477
                                     \setlength{\unitlength}{1mm}%
                                478
                                     \begin{picture}(74, 11)%
                                        {\includegraphics[height=\vutinfth@logo@height]{Logo-schwarz.pdf}}
                                479
                                     \end{picture}\hfill
                                480
                                481 }%
  \vutinfth@footer@titlepage Initialize footer.
                                482 \newcommand{\vutinfth@footer@titlepage}{%
                                     \centering
                                483
                                     \begin{minipage}{\textwidth}%
                                484
                                        \centering\vutinfth@normalsize\sffamily
                                485
                                486
                                       Technische Universit\"{a}t Wien\\
                                487
                                       A-1040 Wien \vutinfth@squarebullet\space
                                488
                                       Karlsplatz 13 \vutinfth@squarebullet\space
                                       Tel. +43-1-58801-0 \vutinfth@squarebullet\space
                                489
                                       www.tuwien.at%
                                490
                                491
                                    \end{minipage}%
                                492 }%
vutinfth@pagestyle@titlepage Generate the title page style.
                                493 \makepagestyle{vutinfth@pagestyle@titlepage}%
                                494 \makerunningwidth{vutinfth@pagestyle@titlepage}[\textwidth]{%
                                     \vutinfth@header@width}%
                                495
                                496 \makeheadposition{vutinfth@pagestyle@titlepage}{%
                                     center}{center}{center}%
                                498 \makeevenhead{vutinfth@pagestyle@titlepage}{}{\%
                                    \vutinfth@header@titlepage}{}%
                                500 \makeoddhead{vutinfth@pagestyle@titlepage}{}{%
                                501 \vutinfth@header@titlepage}{}%
                                502 \makefootrule{vutinfth@pagestyle@titlepage}{%
                                503 \vutinfth@pagestyle@titlepagefootrunwidth}{0.5pt}{\footruleskip}%
                                504 \mbox{\mbox{$\mbox{makeevenfoot}{vutinfth@pagestyle@titlepage}{}}{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}}{c}$}}}}}{\mbox{\mbox{\mbox{$\mbox{$}{c}$}}}}
                                     \vutinfth@footer@titlepage}{}%
                                506 \makeoddfoot{vutinfth@pagestyle@titlepage}{}{%
                                     \vutinfth@footer@titlepage}{}%
                                Set style element specifications.
                                508 \newsetlength{\vutinfth@bigskipamount}{6mm}%
                                Helper functions.
```

 $509 \mbox{$\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\warp{\w}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}$

\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 first.

```
510 \mbox{ \newcommand{\AdvisorBlock}{\%}}
     \ifundergraduate{%
511
512
       \begin{minipage}[t][2.5cm][t]{\textwidth}%
         \vutinfth@normalsize
513
         \begin{tabular}{0{}10{} }1}%
514
            \vutinfth@polylingual@Advisor: &
515
            \vutinfth@person@advisor@fullname\\
516
517
            \ifdef{\vutinfth@person@firstassistant@def}{%
              \vutinfth@polylingual@Assistance: &
518
             \vutinfth@person@firstassistant@fullname\\
519
           }{}%
520
            \ifdef{\vutinfth@person@secondassistant@def}{%
521
             \ifundef{\vutinfth@person@firstassistant@def}{%
522
                \vutinfth@person@firstassistant@error
523
524
             }{%
525
                & \vutinfth@person@secondassistant@fullname\\
             }%
526
           }{}%
527
            \ifdef{\vutinfth@person@thirdassistant@def}{%
528
             \ifundef{\vutinfth@person@firstassistant@def}{%
529
530
                \vutinfth@person@firstassistant@error
             }{%
531
                \ifundef{\vutinfth@person@secondassistant@def}{%
532
                  \vutinfth@person@secondassistant@error
533
                }{%
534
                  & \vutinfth@person@thirdassistant@fullname\\
535
              }%
536
537
            }%
538
          }{}%
         \end{tabular}%
539
       \end{minipage}%
540
     }%
541
     \ifgraduate{%
542
       \begin{minipage}[t][1.6cm][t]{\textwidth}%
543
544
         \vutinfth@normalsize
         \vutinfth@polylingual@Advisor:
545
546
         \vutinfth@person@advisor@fullname
         \ifdef{\vutinfth@person@secondadvisor@def}{%
547
548
           \vutinfth@polylingual@Secondadvisor:
549
550
           \vutinfth@person@secondadvisor@fullname
551
         }{}%
552
       \end{minipage}\par%
    }%
553
554 }%
```

```
\vutinfth@signature@height Set lengths of the signature blocks.
\vutinfth@signature@width
\vutinfth@placedate@width

555 \newsetlength{\vutinfth@signature@height}{25mm}%

556 \newsetlength{\vutinfth@signature@width}{51mm}%

557 \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.

```
558 \newcommand{\SignatureFields}[3][n]{%
     {\vutinfth@normalsize
559
       \ifstrequal{#1}{y}{%
560
          \begin{minipage}[b][\vutinfth@signature@height]{%
561
              \vutinfth@placedate@width
562
563
            \vutinfth@polylingual@Place,
564
            \DTMusedate{vutinfth@date@signing}\vspace*{\baselineskip}%
565
         \end{minipage}%
566
567
          \hfill
568
       }{}%
       \left\{ 1\right\} 
569
       \left\{ f_{1}^{+1}\right\} 
570
          \hspace*{\vutinfth@placedate@width}%
571
         \hfill
572
       }{}%
573
       \ifstrempty{#2}{%
574
          \hspace*{\vutinfth@signature@width}%
575
         \hfill
576
577
          \begin{minipage}[b][\vutinfth@signature@height]{%
578
              \vutinfth@signature@width
579
            }%
580
            \rule{\vutinfth@signature@width}{0.5pt}\\
582
583
          \end{minipage}%
584
         \hfill
585
       }%
586
       \left\{ \frac{43}{3} \right\}
587
          \begin{minipage}[b][\vutinfth@signature@height]{%
588
              \vutinfth@signature@width
589
           }%
590
            \centering
591
            \rule{\vutinfth@signature@width}{0.5pt}\\
592
593
            #3%
594
          \end{minipage}%
```

```
595 }%
596 }%
597 }%
```

\ReviewerBlock Generates a block with the relevant signatures.

```
598 \newcommand{\ReviewerBlock}{%
     \ifgraduate{%
599
600
       {\vutinfth@normalsize
         \vutinfth@polylingual@Reviewed\\
601
         \SignatureFields[h]{%
602
            \vutinfth@person@firstreviewer@name
603
604
605
            \vutinfth@person@secondreviewer@name
         }%
606
       }%
607
     }%
608
609 }%
```

\SignatureBlock Generates a block with the relevant signatures.

```
610 \newcommand{\SignatureBlock}{%
     \ifundergraduate{%
611
       {\vutinfth@normalsize
612
          \SignatureFields[y]{%
613
614
            \vutinfth@person@author@name
615
            \vutinfth@person@advisor@name
616
617
         }%
618
       }%
     }%
619
620
     \ifgraduate{%
621
       {\vutinfth@normalsize
622
          \SignatureFields[y]{}{%
623
            \vutinfth@person@author@name
624
         }%
625
       }%
626
     }%
627 }%
```

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

```
628 \newcommand{\AddTitlePage}{
629 \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.

```
\newgeometry{%
630
       left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
631
       headsep=\vutinfth@header@separator,
632
       head=\vutinfth@header@height
633
     }%
634
Save the current page layout lengths for later restoration.
635
     \vutinfth@savelayout
636
     \setlength{\parindent}{0pt}%
     \setlength{\baselineskip}{13.6pt}%
637
     \setlength{\parskip}{Opt plus 1pt}%
638
Set title page text to helvetica.
639
     \begin{SFFont}{phv}%
640
       \sffamily
641
       {\centering
642
         \vspace*{1.2cm}\par
Title and subtitle are bottom aligned and grow upwards.
         \begin{minipage}[t][5cm][b]{\textwidth}%
643
644
           \centering
645
           \vutinfth@HUGE{\bfseries\vutinfth@polylingual@Title}\\
646
           \bigskip
           \vutinfth@huge{\bfseries
647
             \ifdef{\vutinfth@polylingual@Subtitle}{%
648
                \vutinfth@polylingual@Subtitle}{%
649
             }%
650
           }%
651
         \end{minipage}\par
652
653
         \vutinfth@bigskip\vutinfth@bigskip
         {\vutinfth@LARGE\vutinfth@polylingual@thesisname}\par
654
         \vutinfth@bigskip
655
         {\vutinfth@large\vutinfth@polylingual@submission}\par
656
657
         \vutinfth@bigskip
658
         \ifundergraduate{%
           {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
659
           \vutinfth@bigskip
660
           {\vutinfth@large\vutinfth@polylingual@in}\par
661
           \vutinfth@bigskip
662
           {\vutinfth@Large{\bfseries\vutinfth@polylingual@Curriculum}}\par
663
         }%
664
665
         \ifgraduate{%
           {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
666
667
         }%
         \vutinfth@bigskip
668
         {\vutinfth@large\vutinfth@polylingual@by}\par
669
670
         \vutinfth@bigskip
671
         {\vutinfth@Large{\bfseries\vutinfth@person@author@fullname}}\par
```

```
\smallskip
672
673
         {\vutinfth@large\vutinfth@polylingual@Registrationnumber\
         \vutinfth@data@regnumber}\par
674
675
       \vutinfth@bigskip\vutinfth@bigskip
676
677
       \begin{minipage}[b][1.6cm][c]{\textwidth}%
678
         \vutinfth@normalsize%
         \vutinfth@polylingual@faculty\par
679
         \vutinfth@polylingual@university
680
       \end{minipage}\par
681
       \AdvisorBlock\par
682
```

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
683
       \ReviewerBlock\par
684
       \SignatureBlock\par
685
       \vspace*{1cm}%
686
     \end{SFFont}%
687
     \pagestyle{empty}%
688
     \cleardoublepage
689
     \vutinfth@restorelayout
690
691
     \restoregeometry
692 }%
```

5.3.3 Front Matter Material

\AddStatementPage Generates the statement page.

```
693 \verb| newcommand{\AddStatementPage}{ } \\
```

Set the same page geometry as for the titlepages.

```
694 %^A \newgeometry{%
695 %^A left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
696 %^A headsep=\vutinfth@header@separator,
697 %^A head=\vutinfth@header@height
698 %^A }%
```

Save the current page layout lengths for later restoration.

```
\vutinfth@savelayout
699
                                       \setlength{\parindent}{0pt}%
700
                                       \setlength{\baselineskip}{13.6pt}%
701
                                       \setlength{\parskip}{Opt plus 1pt}%
702
                                       \begin{SFFont}{phv}%
703
                                                        \sffamily
704
                                                                       \verb|\chapter*{\wwtinfth@polylingual@StatementChapter}||% \chapter & \chapter 
705
706
                                                                        \vutinfth@person@author@fullname\par
707 % ^^A
                                                                                                            \vutinfth@data@address\par
```

```
{\normalfont\vutinfth@polylingual@Statement}\par
                       709
                                {\tt \{\normalfont\vutinfth@polylingual@AIStatement\}\par}
                       710
                                \vspace{1.2cm}%
                       711
                                712
                       713
                            \end{SFFont}%
                       714
                            \cleardoublepage
                       715 \vutinfth@restorelayout
                       716 %^^A \restoregeometry
                       717 }%
         \addtitlepage Generates the titlepage in given language.
                       718 \newcommand{\addtitlepage}[1]{%
                       719 \selectlanguage{#1}%
                       720 \AddTitlePage
                       721 }%
     \addstatementpage Generates the statement page.
                       722 \newcommand{\addstatementpage}{%
                       723 \selectlanguage{naustrian}%
                            \AddStatementPage
                       724
                       725 }%
 acknowledgements (env.) Generates the English acknowledgement section.
                       726 \newenvironment{acknowledgements}{%
                           \selectlanguage{english}%
                           \chapter{Acknowledgements}%
                       728
                       729 }{%
                       730 \cleardoublepage
                       731 }%
acknowledgements* (env.) Generates the English acknowledgement section without an entry in the table of
                       contents.
                       732 \newenvironment{acknowledgements*}{%
                       733 \selectlanguage{english}%
                            \chapter*{Acknowledgements}%
                       734
                       735 }{%
                            \cleardoublepage
                       736
                       737 }%
      danksagung (env.) Generates the German acknowledgement section.
                       738 \newenvironment{danksagung}{%
                            \selectlanguage{naustrian}%
                       739
                       740
                            \chapter{Danksagung}%
```

708

\vspace{1.2cm}%

```
741 }{%
                   742 \cleardoublepage
                   743 }%
danksagung* (env.) Generates the German acknowledgement section without an entry in the table of
                   contents.
                   744 \newenvironment{danksagung*}{%
                   745 \selectlanguage{naustrian}%
                   746 \chapter*{Danksagung}%
                   747 }{%
                   748 \cleardoublepage
                   749 }%
    abstract (env.) Generates the English abstract.
                   750 \renewenvironment{abstract}{%
                   751 \selectlanguage{english}%
                        \chapter{Abstract}%
                   753 }{%
                   754 \cleardoublepage
                   755 }%
   abstract* (env.) Generates the English abstract without an entry in the table of contents.
                   756 \newenvironment{abstract*}{%
                   757 \selectlanguage{english}%
                       \chapter*{Abstract}%
                   758
                   759 }{%
                   760 \cleardoublepage
                   761 }%
kurzfassung (env.) Generates the German abstract.
                   762 \newenvironment{kurzfassung}{%
                   763 \selectlanguage{naustrian}%
                   764 \chapter{Kurzfassung}%
                   765 }{%
                   766 \cleardoublepage
                   767 }%
kurzfassung* (env.) Generates the German abstract without an entry in the table of contents.
                   768 \newenvironment{kurzfassung*}{%
                       \selectlanguage{naustrian}%
                       \chapter*{Kurzfassung}%
                   771 }{%
                   772 \cleardoublepage
                   773 }%
```

```
aitools (env.) Generates the English AI statement.
                                                                                                 774 \newenvironment{aitools}{%
                                                                                                                 \selectlanguage{english}%
                                                                                                                \verb|\chapter[\vutinfth@AIToolsChapter@english]{\vutinfth@polylingual@AIToolsChapter}|| % \chapter[\vutinfth@polylingual@AIToolsChapter]|| % \chapter[\vutinfth@
                                                                                                 776
                                                                                                 777 }{%
                                                                                                 778 \cleardoublepage
                                                                                                 779 }%
                                           aitools* (env.) Generates the English AI statement without an entry in the table of contents.
                                                                                                 780 \newenvironment{aitools*}{%
                                                                                                 781 \selectlanguage{english}%
                                                                                                                   \chapter*{\vutinfth@polylingual@AIToolsChapter}%
                                                                                                 782
                                                                                                 783 }{%
                                                                                                 784 \cleardoublepage
                                                                                                 785 }%
                                               kitools (env.) Generates the German AI statement.
                                                                                                 786 \newenvironment{kitools}{%
                                                                                                 787 \selectlanguage{naustrian}%
                                                                                                                \chapter[\vutinfth@AIToolsChapter@naustrian] {\vutinfth@polylingual@AIToolsChapter}%
                                                                                                 788
                                                                                                 789 }{%
                                                                                                 790 \cleardoublepage
                                                                                                 791 }%
                                           kitools* (env.) Generates the German AI statement without an entry in the table of contents.
                                                                                                 792 \newenvironment{kitools*}{%
                                                                                                 793 \selectlanguage{naustrian}%
                                                                                                               \chapter*{\vutinfth@polylingual@AIToolsChapter}%
                                                                                                 794
                                                                                                 795 }{%
                                                                                                 796 \cleardoublepage
                                                                                                 797 }%
                                                                                                 5.3.4 Page Style
vutinfth@pagestyle@default Define the default page style of the thesis.
                                                                                                 798 \makepagestyle{vutinfth@pagestyle@default}%
                                                                                                 799 \makeevenfoot{vutinfth@pagestyle@default}{\thepage}{}{}%
                                                                                                 800 \mbox{ \mbox{$1$}{\mbox{$1$}{\mbox{$1$}}} \mbox{$1$}{\mbox{$1$}{\mbox{$1$}}} \mbox{$1$}{\mbox{$1$}{\mbox{$1$}}} \mbox{$1$}{\mbox{$1$}} \mbox{$1$}{\mbox{$1
                                                  \frontmatter Apply the default page style to the thesis.
                                                      \mainmatter
                                                                                                801 \aliaspagestyle{chapter}{vutinfth@pagestyle@default}%
                                                     \backmatter
                                                                                                 802 \aliaspagestyle{part}{vutinfth@pagestyle@default}{\%}
                                                                                                 803 \add to \front matter {\pagestyle {\it vutinfth@pagestyle@default}} \%
                                                                                                 804 \addto\mainmatter{\pagestyle{Ruled}}%
                                                                                                 805 \addto\backmatter{\pagestyle{vutinfth@pagestyle@default}}%
```

6 Change History

v0.9	v1.4
General: Pre-release version 1	General: Added comma to
v1.0	separate posttitle and changed
General: Initial release version 1	mainmatter pagestyle to
v1.1	'Ruled' 1
General: Added references to the	\mainmatter: Added 'Ruled'
GitLab environment 1	pagestyle
v1.3	\vutinfth@def@person: Added
General: Added support for a	comma to separate posttitle 12
dissertation at the Vienna Phd	v1.5
School of Informatics. Issue #4 1	General: Updated name of
\AddStatementPage: Updated to	university to 'TU Wien' 1
support multiple languages.	PolyLinguals: Updated name of
Issue #4 29	university to 'TU Wien' 19
\addstatementpage: Updated to	v1.6
support English version. Issue	General: Enabled second advisor
#4 30	
\AddTitlePage: Added check for	\AdvisorBlock: Enabled second
subtitle existence before usage.	advisor for dissertations 25
Issue #1 27	
Updated to support PhD School	term for second advisor 19
mentioning and fixed the	v1.8
associated vertical overflow.	General: Removed address
Issue #4 27	information
\AdvisorBlock: Updated to	\AddStatementPage: Removed
support second advisor. Issue	address information 29
$#4 \dots 25$	Textual Data: Removed address
Persons: Updated to support	information 19
second advisor. Issue Issue #4 19	v1.9
Textual⊔Data: Updated to support	General: Changed header graphics
external reviewer data. Issue	and unversity URL
#4	\AddStatementPage: Changed
PolyLinguals: Added to support	header graphics 29
multiple dissertation types.	\AddTitlePage: Changed header
Issue #4 19	graphics 27
\ReviewerBlock: Updated to	vutinfth@pagestyle@titlepage:
support external reviewers.	
Issue #4	\vutinfth@footer@titlepage:
\setthesis: Altered to support	Changed university URL 24
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"	Changed header graphics 24
\SignatureBlock: Updated to	v1.11
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\vutinfth@thesis@doctor: Added	to 'TU Wien Informatics' 1
to support multiple	\setdate: Updated to datetime2
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v1.12 datetime2 package	
15540 // 6 111111111111111111111111111111111	. 17
General: Removed obsolete \SignatureBlock: Removed	
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the Vienna PhD School of dissertation types. Issue #8	27
Informations. Issue #8 1 \vutinfth@thesis@doctor:	
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