# The vutinfth class\*

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## Abstract

This class provides a LaTeX  $2\varepsilon$  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.

<sup>\*</sup>This document corresponds to vutinfth v1.10, dated 2020/02/20.

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#### Introduction 1

This class provides a LaTeX  $2\varepsilon$  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.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.

#### 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<sup>P</sup>, indicates such a command.

#### 3.1.1Textual Data

\setfirstreviewerdata \setsecondreviewerdata

\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<sup>P</sup>, one  $\langle text \rangle$  argument has to supplied for each \setcurriculum language (see Section 3.1.5). The following textual data can be set:

Command	Role	Type	Optional
\setregnumber	Registration number of the author	All	No
$ackslash$ settitle $^{ m P}$	Title of the thesis	All	No
$\strut_{ m P}$	Subtitle of the thesis	All	Yes
$\$ setcurriculum $^{\mathrm{P}}$	Name of the curriculum	B, M	No
Types: Bachelor (B	3), Master (M), Doctoral (D), PhD So	chool (P)	, All (All)

Command	Role	Type	Optional
\setfirstreviewerdata	Affiliation and country of first reviewer	P	No
\setsecondreviewerdata	Affiliation and country of second reviewer	Р	No
Types: Bachelor (B) Maste	or (M) Doctoral (D) PhD	School (P	Δ11 (Δ11)

#### 3.1.2 Persons

\setauthor All commands in this section are called with four mandatory arguments, e.g., as  $\$  \command{\(\langle pretitle \rangle \} \{\langle name \rangle \} \{\langle posttitle \rangle \rangle \} \{\langle posttitle \rangle \} \{\langle posttitle \rangle \} \{\langle posttitle \rangle \rangle \rangle \} \{\langle posttitle \rangle \ra \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, 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: Bac	helor (B), Mast	er (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 \command...  $\{\langle list \rangle\}$ ..., 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
$\begin{tabular}{ll} \hline & & \\ $	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 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 '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 enroled 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{ $\langle english \rangle$ }{ $\langle qerman \rangle$ }, 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  $\langle german \rangle$ . 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 $\{\langle english\rangle\}$  { $\langle qerman\rangle\}$ , 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  $\langle qerman \rangle$ . 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 $\{\langle enqlish\rangle\}\{\langle qerman\rangle\}$ , 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
$\begin{tabular}{ll} \label{table} \begin{tabular}{ll} tab$	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{document}\frontmatter.

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

acknowledgements (env.) Used as  $\ensuremath{\texttt{begin}}$  (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  $\begin{danksagung} \langle text \rangle \end{danksagung}$ , this environment generdanksagung\* (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 \begin{kurzfassung}\(text\)\end{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  $\string$ , the newly created command assigns the value  $\langle string \rangle$  to the internal variable  $\forall utinfth@data@(name)$ . The variable is initialized with an error value to alert the user of the fact that  $\langle strinq \rangle$  was not supplied via the \set(name) command. Furthermore, a command \vutinfth@data@(name)@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
	\vutinfth@person@ $\langle name \rangle$ @def
$\langle pretitle \rangle$	$\verb \vutinfth@person@\langle name\rangle  @pretitle$
$\langle personname \rangle$	$\verb \vutinfth@person@\langle name\rangle  @ \texttt{name}$
$\langle posttitle \rangle$	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
$\langle gender \rangle$	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $

The command \vutinfth@person@\(\name\)@def is created to increase source code readability when verifying the existence of a specific person. Furthermore, the command  $\vert$  vutinfth@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{ $\langle lanq \rangle$ }, it enables the language  $\langle lanq \rangle$  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.

 $\colon \colon \colon$  $\$  vutinfth@polylingual@ $\$  and  $\$  that selects the approximate 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 \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.

#### 4.2 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 review-
- \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

```
7 \RequirePackage[scaled] {helvet}%
8 \RequirePackage{lmodern}%
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 \newcommand{\@namexdef}[1]{\expandafter\xdef\csname#1\endcsname}%
```

\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@huge \vutinfth@LARGE \vutinfth@Large \vutinfth@large

\vutinfth@normalsize

- $27 \end{\mathbf Vutinfth@HUGE}_{\fontsize{30}{34}\selectfont}\%$
- $28 \end{\www.engline} $$ \operatorname{20}{23}\> 28 \end{\www.engline} $$$
- 29 \newcommand{\vutinfth@LARGE}{\fontsize{17}{22}\selectfont}%
- 30 \newcommand{\vutinfth@Large}{\fontsize{14}{18}\selectfont}%
- 31 \newcommand{\vutinfth@large}{\fontsize{12}{14.5}\selectfont}%
- 32 \newcommand{\vutinfth@normalsize}{\fontsize{11}{13.6}\selectfont}%

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.

- 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 \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]{%
- 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]{%
    \@namedef{vutinfth@data@#1@error}{%
      \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
52
53
    \@namedef{vutinfth@data@#1}{\@nameuse{vutinfth@data@#1@error}}%
54
55 }%
```

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

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

### 5.2.3 Persons

66 }%

\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 \neq \{ifmale\}[2]
\ifcsstring{vutinfth@person@#1@gender}{\vutinfth@person@male}{#2}{}\%
```

67 \newcommand{\iffemale}[2]{%

\ifcsstring{vutinfth@person@#1@gender}{\vutinfth@person@female}{#2}{}% 68 69 }%

\vutinfth@def@person Creates the internal storage for a person's name, titles and gender.

```
70 \newcommand{\vutinfth@def@person}[5]{%
71
   \@namedef{vutinfth@person@#1@def}{}%
72
   \@namedef{vutinfth@person@#1@pretitle}{#2}%
   \@namedef{vutinfth@person@#1@name}{#3}%
73
   \@namedef{vutinfth@person@#1@posttitle}{#4}%
74
   75
     \@namedef{vutinfth@person@#1@gender}{\vutinfth@person@male}%
76
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}{%
81
      \ifstrempty{#2}{%
82
        \@namedef{vutinfth@person@#1@fullname}{#4}%
83
84
      }{%
```

```
\ifstrempty{#4}{%
 85
            \@namedef{vutinfth@person@#1@fullname}{#2}%
 86
         }{%
 87
            \Onamedef{vutinfthOpersonO#1Ofullname}{#2 #4}%
 88
 89
       }%
 90
     }{%
 91
 92
       \ifstrempty{#2}{%
 93
          \ifstrempty{#4}{%
            \@namedef{vutinfth@person@#1@fullname}{#3}%
 94
 95
         }{%
            \@namedef{vutinfth@person@#1@fullname}{#3, #4}%
 96
         }%
 97
       }{%
 98
          \ifstrempty{#4}{%
 99
            \Onamedef{vutinfthOpersonO#1Ofullname}{#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]{\%
     \@namedef{vutinfth@person@#1@error}{%
108
109
       \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
110
     \@namedef{vutinfth@person@#1@name}{%
111
112
       \@nameuse{vutinfth@person@#1@error}}%
113
     \@namedef{vutinfth@person@#1@pretitle}{%
114
       \@nameuse{vutinfth@person@#1@error}}%
115
     \@namedef{vutinfth@person@#1@posttitle}{%
       \@nameuse{vutinfth@person@#1@error}}%
116
     \@namedef{vutinfth@person@#1@gender}{%
117
       \@nameuse{vutinfth@person@#1@error}}%
118
     \@namedef{vutinfth@person@#1@fullname}{%
119
120
       \@nameuse{vutinfth@person@#1@error}}%
121 }%
```

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

```
122 \newcommand{\CreatePerson}[1]{%
123 \Qnamedef{set#1}##1##2##3##4{%
124 \vutinfthQdefQperson{#1}{##1}{##2}{##3}{##4}%
125 }%
126 \vutinfthQdefQpersonQinvalid{#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 polylin-

gual 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.

```
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 \@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.

```
142 \ifdraftdoc{%
143 [Draft: No '#1' text for polylingual '##1'.]%
```

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.

```
153 \newcommand{\vutinfth@selectlanguage@polylingual}[1]{\@empty}% 154 }{}%
```

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.

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

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

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

#### 5.2.5Thesis Types

infth@thesis@basetype@graduate

Othesis Chasetype Cundergraduate Two thesis categories are differentiated: undergraduate and graduate.

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

vutinfth@undergraduate}%

172 \newcommand{\vutinfth@thesis@basetype@graduate}{%

vutinfth@graduate}%

# \ifgraduate

\ifundergraduate Convenience macros to determine the category of the selected thesis type.

```
174 \newcommand{\ifundergraduate}[1]{%
```

\ifestrequal{\vutinfth@thesis@basetype}{% 176 \vutinfth@thesis@basetype@undergraduate

177}{#1}{}%

178 }%

179 \newcommand{\ifgraduate}[1]{%

\ifestrequal{\vutinfth@thesis@basetype}{%

\vutinfth@thesis@basetype@graduate 181

182 }{#1}{}%

183 }%

infth@thesis@doctortype@doctor Two doctor thesis categories are differentiated: doctor and phd, where the latter vutinfth@thesis@doctortype@phd is for dissertation in the context of the Vienna PhD School of Informatics.

```
184 \newcommand{\vutinfth@thesis@doctortype@doctor}{%
```

185 vutinfth@doctor}%

186 \newcommand{\vutinfth@thesis@doctortype@phd}{%

vutinfth@phd}%

\ifdoctor Convenience macros to determine the category of the selected doctor thesis type. \ifphd These need to be nested inside \ifgraduate conditions.

```
188 \newcommand{\ifdoctor}[1]{%
189
     \ifestrequal{\vutinfth@thesis@doctortype}{%
       \vutinfth@thesis@doctortype@doctor
190
191
    }{#1}{}%
192 }%
193 \newcommand{\ifphd}[1]{%
194
     \ifestrequal{\vutinfth@thesis@doctortype}{%
       \vutinfth@thesis@doctortype@phd
195
```

```
\vutinfth@thesis@basetype Initialize the thesis category, the type and the specific degree with error messages.
\vutinfth@thesis@doctortype
                           198 \newcommand{\vutinfth@thesis@basetype}{%
\vutinfth@thesis@thesisname
                               \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                           199
\vutinfth@thesis@degreename
                                  Set thesis type with \string\setthesis.}%
                           202 \newcommand{\vutinfth@thesis@doctortype}{%
                               \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                           204
                                  Set thesis type with \string\setthesis.}%
                           205 }%
                           206 \newcommand{\vutinfth@polylingual@degreename}{%
                           207
                               \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                  Set thesis type with \string\setthesis.}%
                           208
                           209 }%
                           210 \newcommand{\vutinfth@polylingual@thesisname}{%
                           211
                                \ClassError{vutinfth}{No \string\setthesis \space issued}{%
                                  Set thesis type with \string\setthesis.}%
                           212
                           213 }%
  \vutinfth@thesis@bachelor Four main thesis types are differentiated: bachelor, master, doctor, and
    \vutinfth@thesis@master phd-school.
    \vutinfth@thesis@doctor
      215 \newcommand{\vutinfth@thesis@master}{master}%
                           216 \newcommand{\vutinfth@thesis@doctor}{doctor}%
                           217 \newcommand{\vutinfth@thesis@phd}{phd-school}%
           \@setthesisname Internal convenience macros.
           \@setdegreename
    219 \renewcommand{\vutinfth@polylingual@thesisname}{#1}}%
                           220 \newcommand{\@setdegreename}[1]{%
                           {\tt 221} \quad \verb|\renewcommand{\vutinfth@polylingual@degreename}{\#1}} \%
                           222 \newcommand{\@setgendereddegreename}[2]{%
                               \ifmale{author}{\@setdegreename{#1}}%
                           224 \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
                                    \vutinfth@thesis@basetype@undergraduate}%
                           229
                                  \@setthesisname{\vutinfth@polylingual@BACHELORTHESIS}%
                           230
                                  \@setdegreename{\vutinfth@polylingual@Bdeg}%
                           231
                               }{}%
                           232
```

196 }{#1}{}%

197 }%

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

233

```
Initializes master thesis type.
```

\vutinfth@thesis@mdeg@rernat

273

```
\renewcommand{\vutinfth@thesis@basetype}{%
                                                                 234
                                                                                     \vutinfth@thesis@basetype@undergraduate}%
                                                                 235
                                                                                 \@setthesisname{%
                                                                 236
                                                                                     \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
                                                                 237
                                                                                         Set masterdegree with \string\setmasterdegree.}%
                                                                 238
                                                                 239
                                                                 240
                                                                                \@setdegreename{%
                                                                                     \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
                                                                 241
                                                                 242
                                                                                         Set master degree with \string\setmasterdegree.}%
                                                                                }%
                                                                 243
                                                                            }{}%
                                                                 244
                                                                            \ifdefstring{\vutinfth@thesis@doctor}{#1}{%
                                                                 245
                                                                 Initializes doctor thesis type.
                                                                              \renewcommand{\vutinfth@thesis@basetype}{%
                                                                 247
                                                                                   \vutinfth@thesis@basetype@graduate}%
                                                                 248
                                                                              \renewcommand{\vutinfth@thesis@doctortype}{%
                                                                 249
                                                                                   \vutinfth@thesis@doctortype@doctor}%
                                                                              \verb|\colored| \label{lem:condition} \label{lem:condition} $$ \end{condition} $$ \end{cond
                                                                 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.
                                                                              \renewcommand{\vutinfth@thesis@basetype}{%
                                                                 257
                                                                 258
                                                                                   \vutinfth@thesis@basetype@graduate}%
                                                                              \renewcommand{\vutinfth@thesis@doctortype}{%
                                                                 259
                                                                                   \vutinfth@thesis@doctortype@phd}%
                                                                 260
                                                                              \@setthesisname{\vutinfth@polylingual@PHDTHESIS}%
                                                                 261
                                                                              \@setdegreename{\vutinfth@polylingual@Pdeg}%
                                                                           }{}%
                                                                 263
                                                                 264 }%
       \vutinfth@thesis@mdeg@dipl Four master degrees can be selected: dipl., master, rer.nat., and
   \vutinfth@thesis@mdeg@master rer.soc.oec..
                                                                 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.}%
                            \setmasterdegree Sets the specific master degree.
                                                                 269 \newcommand{\setmasterdegree}[1]{%
                                                                           \ifdefstring{\vutinfth@thesis@mdeg@dipl}{#1}{%
                                                                 270
                                                                                \@setthesisname{\vutinfth@polylingual@DIPLOMATHESIS}%
                                                                 271
                                                                 272
                                                                                \@setgendereddegreename{%
```

\vutinfth@polylingual@MdegDiplMale

```
}{%
                                274
                                275
                                         \vutinfth@polylingual@MdegDiplFemale
                                       }%
                                276
                                     }{}%
                                277
                                     \ifdefstring{\vutinfth@thesis@mdeg@master}{#1}{%
                                278
                                       \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                279
                                       \@setdegreename{\vutinfth@polylingual@MdegMaster}%
                                280
                                281
                                     }{}%
                                     \ifdefstring{\vutinfth@thesis@mdeg@rernat}{#1}{%
                                282
                                       \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                283
                                       \@setgendereddegreename{%
                                284
                                         \vutinfth@polylingual@MdegRerNatMale
                                285
                                286
                                       }{%
                                287
                                         \vutinfth@polylingual@MdegRerNatFemale
                                288
                                289
                                     }{}%
                                     \ifdefstring{\vutinfth@thesis@mdeg@rersocoec}{#1}{%
                                290
                                291
                                       \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
                                292
                                       \@setgendereddegreename{%
                                         \vutinfth@polylingual@MdegRerSocOecMale
                                293
                                294
                                         \vutinfth@polylingual@MdegRerSocOecFemale
                                295
                                296
                                       }%
                                297
                                     }{}%
                                298 }%
 \vutinfth@thesis@ddeg@rernat Three doctor degrees can be selected: rer.nat., techn., and rer.soc.oec..
                                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}{%
                                304
                                       \@setgendereddegreename{%
                                         \vutinfth@polylingual@DdegRerNatMale
                                305
                                       }{%
                                306
                                         \vutinfth@polylingual@DdegRerNatFemale
                                307
                                       }%
                                308
                                309
                                     }{}%
                                     \ifdefstring{\vutinfth@thesis@ddeg@techn}{#1}{%
                                310
                                311
                                       \@setgendereddegreename{%
                                         \vutinfth@polylingual@DdegTechnMale
                                312
                                       }{%
                                313
                                         \vutinfth@polylingual@DdegTechnFemale
                                314
                                       }%
                                315
                                316
                                     }{}%
```

\vutinfth@thesis@ddeg@techn

317

318

319

320 321 }{%

\ifdefstring{\vutinfth@thesis@ddeg@rersocoec}{#1}{%

\vutinfth@polylingual@DdegRerSocOecMale

\vutinfth@polylingual@DdegRerSocOecFemale

\@setgendereddegreename{%

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

### 5.2.6 Declarations

Textual Data Creates the required textual data entries.

```
325 % ^^A\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 \CreatePolylingual[
343 english=Second advisor,
344 naustrian=Zweitbetreuung]{Secondadvisor}%
345 \CreatePolylingual[
346 english=submitted in partial fulfillment of the requirements
       for the degree of,
347
348 naustrian=zur Erlangung des akademischen Grades]{submission}%
349 \CreatePolylingual[
350 english=in,
    naustrian=im Rahmen des Studiums]{in}%
351
352 \CreatePolylingual[
353 english=within the]{within}%
354 \CreatePolylingual[
355 english=Vienna PhD School of Informatics]{School}%
{\tt 356} \verb|\CreatePolylingual[|\\
357 english=by,
358 naustrian=eingereicht von]{by}%
359 \CreatePolylingual[
360 english=Registration Number,
```

```
361 naustrian=Matrikelnummer]{Registrationnumber}%
362 \CreatePolylingual[
363 english=to the Faculty of Informatics,
364 naustrian=an der Fakult\"at f\"ur Informatik]{faculty}%
365 \CreatePolylingual[
366 english=at the TU Wien,
367 naustrian=der Technischen Universit\"at Wien]{university}%
368 \CreatePolylingual[
    english=Assistance,
369
    naustrian=Mitwirkung]{Assistance}%
370
371 \CreatePolylingual[
     english=The dissertation has been reviewed by:,
     naustrian=Diese Dissertation haben begutachtet:]{Reviewed}%
373
374 \CreatePolylingual[
     english=External reviewers:]{Reviewers}%
375
376 \CreatePolylingual[
     english=Vienna,
     naustrian=Wien]{Place}%
378
379 \CreatePolylingual[
     english=Declaration of Authorship,
     naustrian=Erkl\"arung zur Verfassung der Arbeit]{StatementChapter}%
381
382 \CreatePolylingual[
     english=\{I \ hereby \ declare \ that \ I \ have \ written \ this \ Doctoral \ Thesis
383
       independently, that I have completely specified the utilized
384
385
       sources and resources and that I have definitely marked all parts
386
       of the work - including tables, maps and figures - which belong
       to other works or to the internet, literally or extracted, by
       referencing the source as borrowed.},
     naustrian={Hiermit erkl\"are ich, dass ich diese Arbeit
389
390
       selbst\"andig verfasst habe, dass ich die verwendeten Quellen
       und Hilfsmittel vollst\"andig angegeben habe und dass ich die
391
       Stellen der Arbeit -- einschlie{\ss}lich Tabellen, Karten und
392
       Abbildungen --, die anderen Werken oder dem Internet im Wortlaut
393
       oder dem Sinn nach entnommen sind, auf jeden Fall unter Angabe
394
       der Quelle als Entlehnung kenntlich gemacht habe.}]{Statement}%
395
Degree titles.
396 \CreatePolylingual[
397 english=Bachelor of Science,
398
```

```
naustrian=Bachelor of Science]{Bdeg}%
399 \CreatePolylingual[
400 english=Master of Science,
    naustrian=Master of Science]{MdegMaster}%
401
402 \CreatePolylingual[
     english=Diplom-Ingenieur,
403
     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}%
410
411 \CreatePolylingual[
```

```
english=Magistra der Naturwissenschaften,
412
413 naustrian=Magistra der Naturwissenschaften]{MdegRerNatFemale}%
414 \CreatePolylingual[
415 english=Magister der Sozial- und Wirtschaftswissenschaften,
416 naustrian=Magister der Sozial- und Wirtschaftswissenschaften]{%
417 MdegRerSocOecMale}%
418 \CreatePolylingual[
419 english=Magistra der Sozial- und Wirtschaftswissenschaften,
420 naustrian=Magistra der Sozial- und Wirtschaftswissenschaften] {%
    MdegRerSocOecFemale}%
421
422 \CreatePolylingual[
423 english=Doktor der Naturwissenschaften,
    naustrian=Doktor der Naturwissenschaften]{DdegRerNatMale}%
424
425 \CreatePolylingual[
     english=Doktorin der Naturwissenschaften,
     naustrian=Doktorin der Naturwissenschaften]{DdegRerNatFemale}%
427
428 \CreatePolylingual[
     english=Doktor der Technischen Wissenschaften,
    naustrian=Doktor der Technischen Wissenschaften]{DdegTechnMale}%
430
431 \CreatePolylingual[
432
     english=Doktorin der Technischen Wissenschaften,
433 naustrian=Doktorin der Technischen Wissenschaften]{DdegTechnFemale}%
434 \CreatePolylingual[
435 english=Doktor der Sozial- und Wirtschaftswissenschaften,
    naustrian=Doktor der Sozial- und Wirtschaftswissenschaften]{%
436
437
    DdegRerSocOecMale}%
438 \CreatePolylingual[
439 english=Doktorin der Sozial- und Wirtschaftswissenschaften,
440 naustrian=Doktorin der Sozial- und Wirtschaftswissenschaften] {%
441
    DdegRerSocOecFemale}%
442 \CreatePolylingual[
    english=Doctor of Technical Sciences]{%
443
444 Pdeg}%
Thesis types.
445 \CreatePolylingual[
446 english=BACHELOR'S THESIS,
447 naustrian=BACHELORARBEIT]{BACHELORTHESIS}%
448 \CreatePolylingual[
449 english=MASTER'S THESIS,
450 naustrian=MASTERARBEIT]{MASTERTHESIS}%
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]{%
                                \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}%
                            470
                                \left\{ 1\right\} 
                            471 }%
                            472 \newcommand{\vutinfth@squarebullet}{\rule[0.47ex]\{0.4ex\}\}%
   \vutinfth@tmp@parindent Temporary storage for page layout lengths.
\vutinfth@tmp@baselineskip
    \label{lem:continuous} $$\operatorname{Vutinfth@tmp@parskip}$$ 473 \end{thpde} $$
                            474 \newlength{\vutinfth@tmp@baselineskip}%
                           475 \ensuremath{\wwtinfth@tmp@parskip}\%
      \vutinfth@savelayout Saves and restores relevant page layout lengths.
   \vutinfth@restorelayout
                            476 \newcommand{\vutinfth@savelayout}{%
                                 \setlength{\vutinfth@tmp@parindent}{\parindent}%
                            477
                                 \setlength{\vutinfth@tmp@baselineskip}{\baselineskip}%
                            478
                                 \setlength{\vutinfth@tmp@parskip}{\parskip}%
                            480 }%
                            481 \newcommand{\vutinfth@restorelayout}{%
                                 \setlength{\parindent}{\vutinfth@tmp@parindent}%
                                 \setlength{\baselineskip}{\vutinfth@tmp@baselineskip}%
                            484
                                 \setlength{\parskip}{\vutinfth@tmp@parskip}%
                            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@logo@offset@x}{10.6mm}%
                                                                                                                                                               487 \newsetlength{\vutinfth@logo@offset@y}{22mm}%
                                                                                                                                                               488 \newsetlength{\vutinfth@logo@width@safe}{74mm}%
                                                                                                                                                               489 \newsetlength{\vutinfth@logo@height}{11mm}%
                                                                                                                                                               490 \newsetlength{\vutinfth@header@width}{\paperwidth - \vutinfth@logo@offset@x - \vutinfth@logo
                                                                                                                                                                491 \newsetlength{\vutinfth@header@height}{\vutinfth@logo@height}%
                                                                                                                                                                492 \newsetlength{\vutinfth@header@separator}{-12mm}%
           \vutinfth@header@titlepage Initialize header.
                                                                                                                                                               493 \newcommand{\vutinfth@header@titlepage}{%
                                                                                                                                                               494
                                                                                                                                                                                          \setlength{\unitlength}{1mm}%
                                                                                                                                                               495
                                                                                                                                                                                            \begin{picture}(74, 11)%
                                                                                                                                                               496
                                                                                                                                                                                                       {\includegraphics[height=\vutinfth@logo@height]{Logo-schwarz.pdf}}
                                                                                                                                                               497
                                                                                                                                                                                          \end{picture}\hfill
                                                                                                                                                               498 }%
           \vutinfth@footer@titlepage Initialize footer.
                                                                                                                                                               499 \newcommand{\vutinfth@footer@titlepage}{%
                                                                                                                                                                                           \centering
                                                                                                                                                               500
                                                                                                                                                               501
                                                                                                                                                                                            \begin{minipage}{\textwidth}%
                                                                                                                                                               502
                                                                                                                                                                                                      \centering\vutinfth@normalsize\sffamily
                                                                                                                                                                                                      Technische Universit\"{a}t Wien\\
                                                                                                                                                               503
                                                                                                                                                                                                      A-1040 Wien \vutinfth@squarebullet\space
                                                                                                                                                               504
                                                                                                                                                               505
                                                                                                                                                                                                     Karlsplatz 13 \vutinfth@squarebullet\space
                                                                                                                                                               506
                                                                                                                                                                                                     Tel. +43-1-58801-0 \vutinfth@squarebullet\space
                                                                                                                                                               507
                                                                                                                                                                                                     www.tuwien.at%
                                                                                                                                                                                       \end{minipage}%
                                                                                                                                                               508
                                                                                                                                                               509 }%
vutinfth@pagestyle@titlepage Generate the title page style.
                                                                                                                                                               510 \makepagestyle{vutinfth@pagestyle@titlepage}%
                                                                                                                                                               511 \mbox{ \mbox{$makerunningwidth{vutinfth@pagestyle@titlepage}[\textwidth]{\mbox{$%}}} \
                                                                                                                                                               512 \vutinfth@header@width}%
                                                                                                                                                               513 \makeheadposition{vutinfth@pagestyle@titlepage}{%
                                                                                                                                                               514 center}{center}{center}%
                                                                                                                                                               515 \makeevenhead{vutinfth@pagestyle@titlepage}{}{%
                                                                                                                                                               516 \vutinfth@header@titlepage}{}%
                                                                                                                                                               517 \makeoddhead{vutinfth@pagestyle@titlepage}{}{%
                                                                                                                                                               518 \vutinfth@header@titlepage}{}%
                                                                                                                                                               519 \makefootrule{vutinfth@pagestyle@titlepage}{%
                                                                                                                                                               \verb|\vutinfth@pagestyle@titlepagefootrunwidth|{0.5pt}{\footruleskip}|| % \cite{Control of the page of 
                                                                                                                                                               521 \mbox{ \colored} 
                                                                                                                                                               522 \vutinfth@footer@titlepage}{}%
                                                                                                                                                               523 \mbox{ \mbox{\mbox{$\sim$}}} \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{$\sim$}}}}} \mbox{\mbox{\mbox{\mbo
                                                                                                                                                               524 \vutinfth@footer@titlepage}{}%
                                                                                                                                                               Set style element specifications.
```

525 \newsetlength{\vutinfth@bigskipamount}{6mm}%

Helper functions.

 $526 \mbox{$\warp{\ww.pace{\ww.pace{\ww.pace{\ww.pace{\ww.pace}}}}} % \mbox{$\warp{\ww.pace{\ww.pace{\ww.pace}}$} $\mbox{$\w.pace{\ww.pace{\ww.pace}}$} $\mbox{$\w.pace{\w.pace{\w.pace}}$} $\mbox{$\w.pace{\w.pace{\w.pace}}$} $\mbox{$\w.pace{\w.pace}$} $\mbox{$\w.pace{\w.pace}$}$} $\mbox{$\w.pace{\w.pace{\w.pace}}$} $\mbox{$\w.pace{\w.pace}$}$} $\mbox{$\w.pace{\w.pace{\w.pace}}$} $\mbox{$\w.pace{\w.pace}$}$} $\mbox{$\w.pace{\w.pace}$}$$ 

\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.

```
527 \newcommand{\AdvisorBlock}{%
     \ifundergraduate{%
528
       \begin{minipage}[t][2.5cm][t]{\textwidth}%
529
         \vutinfth@normalsize
530
531
         \begin{tabular}{@{}1@{ }1}%
532
           \vutinfth@polylingual@Advisor: &
533
           \vutinfth@person@advisor@fullname\\
           \ifdef{\vutinfth@person@firstassistant@def}{%
534
535
              \vutinfth@polylingual@Assistance: &
536
              \vutinfth@person@firstassistant@fullname\\
537
           }{}%
           \ifdef{\vutinfth@person@secondassistant@def}{%
538
539
              \ifundef{\vutinfth@person@firstassistant@def}{%
540
                \vutinfth@person@firstassistant@error
541
             }{%
542
                & \vutinfth@person@secondassistant@fullname\\
             }%
543
           }{}%
544
           \ifdef{\vutinfth@person@thirdassistant@def}{%
545
546
              \ifundef{\vutinfth@person@firstassistant@def}{%
547
                \vutinfth@person@firstassistant@error
             }{%
548
549
                \ifundef{\vutinfth@person@secondassistant@def}{%
550
                  \vutinfth@person@secondassistant@error
551
               }{%
552
                  & \vutinfth@person@thirdassistant@fullname\\
              }%
553
            }%
554
          }{}%
555
         \end{tabular}%
556
557
       \end{minipage}%
558
     }%
559
     \ifgraduate{%
       \begin{minipage}[t][1.6cm][t]{\textwidth}%
560
         \vutinfth@normalsize
561
562
         \vutinfth@polylingual@Advisor:
         \vutinfth@person@advisor@fullname
563
         \ifdef{\vutinfth@person@secondadvisor@def}{%
564
565
           \vutinfth@polylingual@Secondadvisor:
566
567
           \vutinfth@person@secondadvisor@fullname
568
         }{}%
569
       \end{minipage}\par%
570
     }%
571 }%
```

```
\vutinfth@signature@width
```

\vutinfth@signature@height Set lengths of the signature blocks.

```
\label{eq:continuous} $$\operatorname{Vutinfth@placedate@width} $$572 \newsetlength{\vutinfth@signature@height}_{25mm}%$
                                    573 \newsetlength{\vutinfth@signature@width}{51mm}%
                                    574 \mbox{ }\mbox{newsetlength{\www.fnfth@placedate@width}{50mm}}\mbox{\www.fn}
```

\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.

```
575 \newcommand{\SignatureFields}[3][n]{%
     {\vutinfth@normalsize
576
577
        \ifstrequal{#1}{y}{%
          \begin{minipage}[b][\vutinfth@signature@height]{%
578
              \vutinfth@placedate@width
579
580
            \vutinfth@polylingual@Place,
581
            \displaydate{vutinfth@date@signing}\vspace*{\baselineskip}%
582
          \end{minipage}%
583
584
          \hfill
585
       }{}%
       \left\{ 1\right\} 
586
587
       \left\{ \frac{\#1}{h}\right\} 
          \hspace*{\vutinfth@placedate@width}%
588
          \hfill
589
       }{}%
590
        \ifstrempty{#2}{%
591
          \hspace*{\vutinfth@signature@width}%
592
          \hfill
593
594
          \begin{minipage}[b][\vutinfth@signature@height]{%
595
596
              \vutinfth@signature@width
            }%
597
            \centering
598
            \verb|\rule{\vutinfth@signature@width}{0.5pt}|\\
599
600
            #2%
601
          \end{minipage}%
          \hfill
602
       }%
603
       \left\{ \frac{43}{3} \right\}
604
          \begin{minipage}[b][\vutinfth@signature@height]{%
605
606
              \vutinfth@signature@width
            }%
607
            \centering
608
            \rule{\vutinfth@signature@width}{0.5pt}\\
609
610
611
          \end{minipage}%
612
       }%
613
     }%
614 }%
```

\ReviewerBlock Generates a block with the relevant signatures.

```
615 \newcommand{\ReviewerBlock}{\%}
     \ifgraduate{%
616
       \ifdoctor{%
617
          {\vutinfth@normalsize
618
            \vutinfth@polylingual@Reviewed\\
619
           \SignatureFields[h]{%
620
              \vutinfth@person@firstreviewer@name
621
622
              \vutinfth@person@secondreviewer@name
623
           }%
624
         }%
625
       }%
626
       \ifphd{%
627
628
         {\vutinfth@normalsize
629
           \vutinfth@polylingual@Reviewers\\
           \vutinfth@person@firstreviewer@name.
630
           \vutinfth@data@firstreviewerdata.\\
631
632
           \vutinfth@person@secondreviewer@name.
633
            \vutinfth@data@secondreviewerdata.\\
634
         }%
       }%
635
     }%
636
637 }%
```

\SignatureBlock Generates a block with the relevant signatures.

```
638 \newcommand{\SignatureBlock}{\%}
     \ifundergraduate{%
639
        {\vutinfth@normalsize
640
          \SignatureFields[y]{%
641
642
            \vutinfth@person@author@name
643
          }{%
644
            \vutinfth@person@advisor@name
645
          }%
       }%
646
     }%
647
     \ifgraduate{%
648
        {\vutinfth@normalsize
649
          \ifdoctor{%
650
            \SignatureFields[y]{}{%
651
               \vutinfth@person@author@name
652
            }%
653
654
          }%
          \left\langle \right\rangle
655
656
            \SignatureFields[y]{%
657
               \vutinfth@person@author@name
            }{%
658
               \vutinfth@person@advisor@name
659
            }%
660
          }%
661
662
       }%
     }%
663
```

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

```
665 \newcommand{\AddTitlePage}{
666 \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.

```
667 \newgeometry{%
668 left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
669 headsep=\vutinfth@header@separator,
670 head=\vutinfth@header@height
671 }%
```

Save the current page layout lengths for later restoration.

```
672 \vutinfth@savelayout
673 \setlength{\parindent}{0pt}%
674 \setlength{\baselineskip}{13.6pt}%
675 \setlength{\parskip}{0pt plus 1pt}%
```

Set title page text to helvetica.

```
676 \begin{SFFont}{phv}\%
677 \sffamily
678 {\centering
679 \vspace*{1.2cm}\par
```

Title and subtitle are bottom aligned and grow upwards.

```
\begin{minipage}[t][5cm][b]{\textwidth}%
680
681
           \centering
           \vutinfth@HUGE{\bfseries\vutinfth@polylingual@Title}\\
682
683
           \bigskip
           \vutinfth@huge{\bfseries
684
             \ifdef{\vutinfth@polylingual@Subtitle}{%
685
686
                \vutinfth@polylingual@Subtitle}{%
687
             }%
           }%
688
         \end{minipage}\par
689
         \vutinfth@bigskip\vutinfth@bigskip
690
         {\vutinfth@LARGE\vutinfth@polylingual@thesisname}\par
691
692
         \vutinfth@bigskip
         {\vutinfth@large\vutinfth@polylingual@submission}\par
693
         \vutinfth@bigskip
694
         \ifundergraduate{%
695
           {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
697
           \vutinfth@bigskip
           {\vutinfth@large\vutinfth@polylingual@in}\par
698
           \vutinfth@bigskip
699
           {\vutinfth@Large{\bfseries\vutinfth@polylingual@Curriculum}}\par
700
```

```
701
         \ifgraduate{%
702
           {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
703
           \ifphd{%
704
             \vutinfth@bigskip
705
             {\vutinfth@large\vutinfth@polylingual@within}\par
706
             \vutinfth@bigskip
707
             {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@School}}\par
708
          }%
709
         }%
710
         \vutinfth@bigskip
711
         712
         \vutinfth@bigskip
713
         {\vutinfth@Large{\bfseries\vutinfth@person@author@fullname}}\par
714
715
         \smallskip
         {\vutinfth@large\vutinfth@polylingual@Registrationnumber\
716
         \vutinfth@data@regnumber}\par
717
718
      }%
       \vutinfth@bigskip\vutinfth@bigskip
719
       \ifgraduate{\ifphd{\vspace*{-8mm}}}%
720
       \begin{minipage}[b][1.6cm][c]{\textwidth}%
721
         \vutinfth@normalsize%
722
         \vutinfth@polylingual@faculty\par
723
724
         \vutinfth@polylingual@university
725
       \end{minipage}\par
       \AdvisorBlock\par
726
```

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

```
727
       \vfill
       \ReviewerBlock\par
728
       \SignatureBlock\par
729
       \vspace*{1cm}%
730
     \end{SFFont}%
731
     \pagestyle{empty}%
732
     \cleardoublepage
733
     \vutinfth@restorelayout
734
     \restoregeometry
735
736 }%
```

### 5.3.3 Front Matter Material

\AddStatementPage Generates the statement page.

```
737 \newcommand{\AddStatementPage}{
```

Set the same page geometry as for the titlepages.

```
738 %^A \newgeometry{%
739 %^A left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
740 %^A headsep=\vutinfth@header@separator,
741 %^A head=\vutinfth@header@height
742 %^A }%
```

Save the current page layout lengths for later restoration.

```
743
                             \vutinfth@savelayout
                             \setlength{\parindent}{0pt}%
                       744
                             \setlength{\baselineskip}{13.6pt}%
                       745
                             \setlength{\parskip}{Opt plus 1pt}%
                       746
                             \begin{SFFont}{phv}%
                       747
                               \sffamily
                       748
                                 \chapter*{\vutinfth@polylingual@StatementChapter}%
                       749
                                 \vutinfth@person@author@fullname\par
                       750
                       751 % ^^A
                                      \vutinfth@data@address\par
                                 \vspace{1.2cm}%
                       752
                                 {\normalfont\vutinfth@polylingual@Statement}\par
                       753
                                 \vspace{1.2cm}%
                       754
                                 \SignatureFields[y]{\vutinfth@person@author@name}{}%
                       755
                       756
                             \end{SFFont}%
                       757
                             \cleardoublepage
                             \vutinfth@restorelayout
                       758
                       759 %^^A \restoregeometry
                       760 }%
         \addtitlepage Generates the titlepage in given language.
                       761 \newcommand{\addtitlepage}[1]{%
                            \selectlanguage{#1}%
                            \AddTitlePage
                       763
                       764 }%
    \addstatementpage Generates the statement page.
                       765 \newcommand{\addstatementpage}{%
                             \selectlanguage{naustrian}%
                       766
                             \ifundergraduate{\AddStatementPage}%
                       767
                             \ifgraduate{%
                       768
                               \ifdoctor{\AddStatementPage}%
                       769
                       770
                               \ifphd{%
                       771
                                 \selectlanguage{english}%
                       772
                                 \AddStatementPage
                       773
                               }%
                       774
                             }%
                       775 }%
acknowledgements (env.) Generates the English acknowledgement section.
                       776 \newenvironment{acknowledgements}{%
                             \selectlanguage{english}%
                            \chapter{Acknowledgements}%
                       778
                       779 }{%
                       780
                            \cleardoublepage
                       781 }%
```

acknowledgements\* (env.) Generates the English acknowledgement section without an entry in the table of contents.

```
782 \newenvironment{acknowledgements*}{\%}
                  783 \selectlanguage{english}%
                       \chapter*{Acknowledgements}%
                  784
                  785 }{%
                       \cleardoublepage
                  786
                  787 }%
 danksagung (env.) Generates the German acknowledgement section.
                  788 \newenvironment{danksagung}{%
                       \selectlanguage{naustrian}%
                       \chapter{Danksagung}%
                  790
                  791 }{%
                  792
                       \cleardoublepage
                  793 }%
danksagung* (env.) Generates the German acknowledgement section without an entry in the table of
                  contents.
                  794 \newenvironment{danksagung*}{%
                       \selectlanguage{naustrian}%
                       \chapter*{Danksagung}%
                  796
                  797 }{%
                      \cleardoublepage
                  798
                  799 }%
   abstract (env.) Generates the English abstract.
                  800 \renewenvironment{abstract}{%
                        \selectlanguage{english}%
                       \chapter{Abstract}%
                  802
                  803 }{%
                  804 \cleardoublepage
                  805 }%
 abstract* (env.) Generates the English abstract without an entry in the table of contents.
                  806 \newenvironment{abstract*}{%
                       \selectlanguage{english}%
                  807
                       \chapter*{Abstract}%
                  808
                  809 }{%
                  810 \cleardoublepage
                  811 }%
kurzfassung (env.) Generates the German abstract without an entry in the table of contents.
                  812 \newenvironment{kurzfassung}{%
                       \selectlanguage{naustrian}%
                       \chapter{Kurzfassung}%
                  816
                      \cleardoublepage
                  817 }%
```

```
kurzfassung* (env.) Generates the German abstract.
                                                      818 \newenvironment{kurzfassung*}{%
                                                                \selectlanguage{naustrian}%
                                                                \chapter*{Kurzfassung}%
                                                      820
                                                      821 }{%
                                                      822
                                                               \cleardoublepage
                                                      823 }%
                                                                    Page Style
                                                      5.3.4
vutinfth@pagestyle@default Define the default page style of the thesis.
                                                      824 \makepagestyle{vutinfth@pagestyle@default}%
                                                      825 \makeevenfoot{vutinfth@pagestyle@default}{\thepage}{}{}%
                                                      826 \makeoddfoot{vutinfth@pagestyle@default}{}{}{\thepage}%
                            \frontmatter Apply the default page style to the thesis.
                              \verb|\backmatter|| 827 \aliaspagestyle{chapter}{vutinfth@pagestyle@default}| % \aliaspagestyle{chapter}| % \aliaspa
                                                      828 \aliaspagestyle{part}{vutinfth@pagestyle@default}%
                                                      829 \add to front matter {\pagestyle {\it vutinfth@pagestyle@default}} \%
                                                      830 \add to \main matter {\scriptstyle \pagestyle{Ruled}} \%
                                                      831 \addto\backmatter{\pagestyle{vutinfth@pagestyle@default}}%
                                                      6
                                                                Change History
                                                      v0.9
                                                                                                                                                 \#4 ..... 24
                                                            General: Pre-release version . . . . . 1
                                                                                                                                          Persons: Updated to support
                                                      v1.0
                                                                                                                                                second advisor. Issue Issue #4 19
                                                            General: Initial release version . . . 1
                                                                                                                                          Textual Data: Updated to support
                                                      v1.1
                                                                                                                                                external reviewer data. Issue
                                                            General: Added references to the
                                                                                                                                                 GitLab environment . . . . . . . . 1
                                                                                                                                          \ifdoctor: Added to support
                                                      v1.3
                                                                                                                                                multiple dissertation types.
                                                            General: Added support for a
                                                                                                                                                 dissertation at the Vienna Phd
                                                                                                                                          \ifphd: Added to support multiple
                                                                   School of Informatics. Issue #4 1
                                                                                                                                                 dissertation types. Issue #4 . . 15
                                                            \AddStatementPage: Updated to
                                                                                                                                          PolyLinguals: Added to support
                                                                   support multiple languages.
                                                                                                                                                multiple dissertation types.
                                                                                                                                                 Issue #4 . . . . . . . . . . . . . . . . . 28
                                                            \addstatementpage: Updated to
                                                                                                                                          \ReviewerBlock: Updated to
                                                                   support english version. Issue
                                                                                                                                                support external reviewers.
                                                                   #4 ..... 29
                                                                                                                                                 \AddTitlePage: Added check for
                                                                                                                                          \setthesis: Altered to support
                                                                                                                                                multiple dissertation types.
                                                                   subtitle existence before usage.
                                                                   Issue #1 . . . . . . . . . . . . . . . . . 27
                                                                                                                                                 Updated to support PhD School
                                                                                                                                          \SignatureBlock: Updated to
                                                                   mentioning and fixed the
                                                                                                                                                support multiple dissertation
                                                                   associated vertical overflow.
                                                                                                                                                types. Issue #4 ..... 26
```

Issue #4 . . . . . . . . . . . . . . . . 27

support second advisor. Issue

\AdvisorBlock: Updated to

\vutinfth@thesis@doctortype:

Added to support multiple

dissertation types. Issue #4 . . 16

Added to support multiple	
	\AdvisorBlock: Enabled second
dissertation types. Issue $\#4$ 15	advisor for dissertations 24
$\verb \vutinfth@thesis@doctortype@phd: $	PolyLinguals: Provided German
Added to support multiple	term for second advisor 19
dissertation types. Issue $\#4$ 15	v1.8
\vutinfth@thesis@phd: Added to	General: Removed address
support multiple dissertation	information $1$
types. Issue #4 16	\AddStatementPage: Removed
v1.4	address information 28
General: Added comma to	Textual Data: Removed address
separate posttitle and changed	information $19$
mainmatter pagestyle to	v1.9
'Ruled' 1	General: Changed header graphics
\mainmatter: Added 'Ruled'	and unversity URL $1$
pagestyle	\AddStatementPage: Changed
\vutinfth@def@person: Added	header graphics 28
comma to separate posttitle 11	\AddTitlePage: Changed header
v1.5	graphics
General: Updated name of	vutinfth@pagestyle@titlepage:
university to 'TU Wien' 1	Changed header graphics 23
PolyLinguals: Updated name of	\vutinfth@footer@titlepage:
university to 'TU Wien' 19	Changed university URL 23
v1.6	\vutinfth@header@titlepage:
General: Enabled second advisor	Changed header graphics 23
Index	
Symbola	
Symbols	264 267 201 200 200 201 502
\"	364, 367, 381, 389, 390, 391, 503
\"	
\"	3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102,
\"	3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102,
\"	
\"	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 136, 155
\"	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 136, 155 14, 116, 118, 120, 132, 139, 148, 158, 159
\" \@empty \Onamedef 47, 48, 51, 54, 57, 71, 72, 73 \	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 136, 155 14, 116, 118, 120, 132, 139, 148, 158, 159 18, 140
\" \@empty \Onamedef 47, 48, 51, 54, 57, 71, 72, 73 \	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 
\" \@empty \@namedef 47, 48, 51, 54, 57, 71, 72, 73	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 8, 129, 130, 167
\"	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167
\"	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 136, 155 14, 116, 118, 120, 132, 139, 148, 158, 159 14, 116, 118, 120, 132, 139, 148, 158, 159 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
\"	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 136, 155 14, 116, 118, 120, 132, 139, 148, 158, 159 14, 116, 118, 120, 132, 139, 148, 158, 159 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
\" \\@empty \\\\\ \@namedef  47, 48, 51, 54, 57, 71, 72, 73 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167 136, 155 14, 116, 118, 120, 132, 139, 148, 158, 159 14, 116, 118, 120, 132, 139, 148, 158, 159 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
\" \\@empty \\\\\ \@namedef  47, 48, 51, 54, 57, 71, 72, 73 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167  136, 155 14, 116, 118, 120, 132, 139, 148, 158, 159  18, 140  18, 140  18, 140  218, 231, 240, 251, 262, 280  218, 272, 284, 292, 304, 311, 318 28, 230, 236, 250, 261, 271, 279, 283, 291 32, 565, 599, 609, 619, 629, 631, 633, 682  716
\" \ \@empty \ \ \@namedef \ 47, 48, 51, 54, 57, 71, 72, 73 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	134, 153 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, 3, 129, 130, 167  14, 116, 118, 120, 132, 139, 148, 158, 159  15, 15, 15, 15, 15, 15, 15, 15, 15, 15,
\" \ \@empty \ \ \@namedef \ 47, 48, 51, 54, 57, 71, 72, 73 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{c} \dots \dots$
\" \ \@empty \ \ \@namedef \ 47, 48, 51, 54, 57, 71, 72, 73 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{c} \dots \dots$
\" \ \@empty \ \ \@namedef \ 47, 48, 51, 54, 57, 71, 72, 73 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{c} 134, 153 \\ 3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102, \\ 3, 129, 130, 167 \\ \dots & 136, 155 \\ 44, 116, 118, 120, 132, 139, 148, 158, 159 \\ \dots & 18, 140 \\ \dots & 218, 231, 240, 251, 262, 280 \\ \dots & 218, 272, 284, 292, 304, 311, 318 \\ 18, 230, 236, 250, 261, 271, 279, 283, 291 \\ 52, 565, 599, 609, 619, 629, 631, 633, 682 \\ \dots & 716 \\ \end{array}$
\" \ \@empty \ \ \@namedef \ 47, 48, 51, 54, 57, 71, 72, 73 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{c} \dots & \dots $
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