## 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 v1.5, dated 2016/01/17.

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### 1 Introduction

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.cg.tuwien.ac.at/auzinger/vutinfth. Further guidelines may apply to both the format and structure of certain theses. These can be found at http://www.informatik.tuwien.ac.at/dekanat. Thesis authors are advised to consult Section 3 for a documentation of all relevant commands. Information for class developers is provided in Section 4.

#### 2 Known Issues

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

### 3 Usage for Document Authors

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

#### 3.1 Data

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

#### 3.1.1 Textual Data

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

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

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

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

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

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

#### 3.1.2 Persons

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

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

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

#### **3.1.3** Dates

#### \setdate

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

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

#### 3.1.4 List Data

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

# \setauthor \setadvisor

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

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

#### \setthesis

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

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

#### \setmasterdegree

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

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

#### \setdoctordegree

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

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

#### 3.1.5 Polylingual Data

#### \setcurriculum

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

#### \settitle

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

#### \setsubtitle

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

#### \addtitlepage

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

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

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

### 3.2 Layout

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

\addtitlepage

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

\addstatementpage

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

acknowledgements acknowledgements\*

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

danksagung\*

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

abstract\*

kurzfassung
kurzfassung\*

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

## 4 Usage for Class Writers

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

#### 4.1 Data

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

\CreateData

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

\CreatePerson

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

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

\AddLanguage

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

\CreatePolylingual

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

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

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

#### 4.2 Layout

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

\SignatureFields

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

\SignatureBlock

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

\ReviewerBlock

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

\AdvisorBlock

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

\AddTitlePage

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

\AddStatementPage

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

SFFont

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

## 5 Implementation

#### 5.1 Initialization

#### 5.1.1 Class Options

Pass the options to the underlying memoir class.

1 \DeclareOption\*{%

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

#### 5.1.2 Loaded Class and Packages

The vutinfth class is based on the memoir class.

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

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

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

#### 5.1.3 Low-Level Functionality

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

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

 $18 \end{\command{\c$ 

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

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

#### **5.1.4** Fonts

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

Initializes the font sizes.

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

SFFont Selects the given font family as sans serif font.

33 \newenvironment{SFFont}[1]{%

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

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

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

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

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

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

#### 5.2 Data

#### **5.2.1** Dates

\setdate Creates the internal storage for the signing date.

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

#### 5.2.2 Textual Data

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

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

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

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

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

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

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

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

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

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

#### 5.2.4Polylingual Text

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

\AddLanguage

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

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

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

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

The key value is initialized as empty.

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

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

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

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

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

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

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

Define the transfer function to permanent storage.

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

Call the transfer routine of the previously defined language.

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

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

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

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

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

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

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

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

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

```
% loss than the property in the large that the lar
```

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

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

Define the selection function.

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

Call the selection routine of the previously defined language.

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

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

\CreatePolylingual

Creates the actual polylingual expressions.

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

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

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

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

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

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

#### 5.2.5 Thesis Types

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

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

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

205 }%

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

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

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

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

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

278

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

#### 5.2.6 Declarations

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

```
325 \c \c \address \
```

326 \CreateData{regnumber}%

327 \CreateData{firstreviewerdata}%

328 \CreateData{secondreviewerdata}%

#### Persons Creates the required person entries.

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

330 \CreatePerson{advisor}%

331 \CreatePerson{secondadvisor}%

332 \CreatePerson{firstassistant}%

333 \CreatePerson{secondassistant}%

334 \CreatePerson{thirdassistant}%

335 \CreatePerson{firstreviewer}%

336 \CreatePerson{secondreviewer}%

#### Languages

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

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

338 \AddLanguage{naustrian}%

#### PolyLinguals Creates the polylingual expressions.

```
339 \CreatePolylingual[
```

340 english=Advisor,

341 naustrian=Betreuung]{Advisor}%

 $342 \verb|\CreatePolylingual[|$ 

343 english=Second advisor]{Secondadvisor}%

 $344 \coloredge CreatePolylingual[$ 

345 english=submitted in partial fulfillment of the requirements

346 for the degree of,

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

348 \CreatePolylingual[

349 english=in,

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

351 \CreatePolylingual[

352 english=within the]{within}%

353 \CreatePolylingual[

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

355 \CreatePolylingual[

```
356
     english=by,
     naustrian=eingereicht von]{by}%
357
358 \CreatePolylingual[
    english=Registration Number,
    naustrian=Matrikelnummer]{Registrationnumber}%
361 \CreatePolylingual[
    english=to the Faculty of Informatics,
    naustrian=an der Fakult\"at f\"ur Informatik]{faculty}%
364 \CreatePolylingual[
    english=at the TU Wien,
365
    naustrian=der Technischen Universit\"at Wien]{university}%
366
367 \CreatePolylingual[
    english=Assistance,
    naustrian=Mitwirkung]{Assistance}%
370 \CreatePolylingual[
371 english=The dissertation has been reviewed by:,
    \verb|naustrian=Diese| Dissertation | haben | begutachtet:]{Reviewed}| % \\
372
373 \CreatePolylingual[
374 english=External reviewers:]{Reviewers}%
375 \CreatePolylingual[
376 english=Vienna,
377 naustrian=Wien]{Place}%
378 \CreatePolylingual[
     english=Declaration of Authorship,
379
     naustrian=Erkl\"arung zur Verfassung der Arbeit]{StatementChapter}%
381 \CreatePolylingual[
     english={I hereby declare that I have written this Doctoral Thesis
382
383
       independently, that I have completely specified the utilized
       sources and resources and that I have definitely marked all parts
384
       of the work - including tables, maps and figures - which belong
385
       to other works or to the internet, literally or extracted, by
386
387
       referencing the source as borrowed.},
388
    naustrian={Hiermit erkl\"are ich, dass ich diese Arbeit
       selbst\"andig verfasst habe, dass ich die verwendeten Quellen
389
       und Hilfsmittel vollst\"andig angegeben habe und dass ich die
390
391
       Stellen der Arbeit -- einschlie{\ss}lich Tabellen, Karten und
       Abbildungen --, die anderen Werken oder dem Internet im Wortlaut
392
       oder dem Sinn nach entnommen sind, auf jeden Fall unter Angabe
393
       der Quelle als Entlehnung kenntlich gemacht habe.}]{Statement}%
394
Degree titles.
395 \CreatePolylingual[
    english=Bachelor of Science,
    naustrian=Bachelor of Science]{Bdeg}%
397
398 \CreatePolylingual[
     english=Master of Science,
    naustrian=Master of Science]{MdegMaster}%
401 \CreatePolylingual[
402 english=Diplom-Ingenieur,
```

```
naustrian=Diplom-Ingenieur]{MdegDiplMale}%
404 \CreatePolylingual[
         english=Diplom-Ingenieurin,
         naustrian=Diplom-Ingenieurin] { MdegDiplFemale } %
407 \CreatePolylingual[
         english=Magister der Naturwissenschaften,
         naustrian=Magister der Naturwissenschaften]{MdegRerNatMale}%
410 \CreatePolylingual[
         english=Magistra der Naturwissenschaften,
         naustrian=Magistra der Naturwissenschaften]{MdegRerNatFemale}%
413 \CreatePolylingual[
          english=Magister der Sozial- und Wirtschaftswissenschaften,
          naustrian=Magister der Sozial- und Wirtschaftswissenschaften]{%
         MdegRerSocOecMale}%
417 \CreatePolylingual[
418 english=Magistra der Sozial- und Wirtschaftswissenschaften,
419 naustrian=Magistra der Sozial- und Wirtschaftswissenschaften]{%
420 MdegRerSocOecFemale}%
421 \CreatePolylingual[
422 english=Doktor der Naturwissenschaften,
423 naustrian=Doktor der Naturwissenschaften]{DdegRerNatMale}%
424 \CreatePolylingual[
          english=Doktorin der Naturwissenschaften,
         naustrian=Doktorin der Naturwissenschaften]{DdegRerNatFemale}%
427 \CreatePolylingual[
          english=Doktor der Technischen Wissenschaften,
          naustrian=Doktor der Technischen Wissenschaften]{DdegTechnMale}%
430 \CreatePolylingual[
          english=Doktorin der Technischen Wissenschaften,
431
          \verb|naustrian=Doktorin| der Technischen Wissenschaften]{DdegTechnFemale}|% \cite{Monthson}| austrian=Doktorin| der Technischen Wissenschaften]| austrian=Doktorin| der Technischen Wissenschaften| der Verlagen Ve
432
433 \CreatePolylingual[
          english=Doktor der Sozial- und Wirtschaftswissenschaften,
         naustrian=Doktor der Sozial- und Wirtschaftswissenschaften] {%
         DdegRerSocOecMale}%
437 \CreatePolylingual[
          english=Doktorin der Sozial- und Wirtschaftswissenschaften,
         naustrian=Doktorin der Sozial- und Wirtschaftswissenschaften]{%
         DdegRerSocOecFemale}%
441 \CreatePolylingual[
         english=Doctor of Technical Sciences]{%
443 Pdeg}%
Thesis types.
444 \CreatePolylingual[
445 english=BACHELOR'S THESIS,
        naustrian=BACHELORARBEIT]{BACHELORTHESIS}%
447 \CreatePolylingual[
448 english=MASTER'S THESIS,
         naustrian=MASTERARBEIT] {MASTERTHESIS}%
```

```
450 \CreatePolylingual[
                                                                                                 english=DIPLOMA THESIS,
                                                                                   451
                                                                                                 naustrian=DIPLOMARBEIT]{DIPLOMATHESIS}%
                                                                                   452
                                                                                   453 \CreatePolylingual[
                                                                                   454 english=DISSERTATION,
                                                                                   455 naustrian=DISSERTATION]{DOCTORTHESIS}%
                                                                                   456 \CreatePolylingual[
                                                                                                  english=PhD THESIS]{PHDTHESIS}%
                                                  \settitle Sets the title of the thesis.
                                                                                   458 \mbox{ } \mbox{newcommand{\settitle}[2]{\%}
                                                                                   459 \CreatePolylingual[english=#1,naustrian=#2]{Title}%
                                                                                   460 }%
                                          \setsubtitle Sets the subtitle of the thesis.
                                                                                   461 \newcommand{\setsubtitle}[2]{%
                                                                                   462 \CreatePolylingual[english=#1,naustrian=#2]{Subtitle}%
                                                                                   463 }%
                                   \setcurriculum Sets the curriculum name.
                                                                                   464 \newcommand{\setcurriculum}[2]{%
                                                                                   465 \CreatePolylingual[english=#1,naustrian=#2]{Curriculum}%
                                                                                   466 }%
                                                                                   5.3 Layout
                                                                                   5.3.1
                                                                                                         Setup
                                                                                   Set internal convenience macros.
            \vutinfth@squarebullet
                                                                                   467 \newcommand{\newsetlength}[2]{%
                                                                                                 \newlength{#1}%
                                                                                   468
                                                                                                  \setlength{#1}{#2}%
                                                                                   469
                                                                                   470 }%
                                                                                   471 \end{\text{\command}} \end{\text
        \vutinfth@tmp@parindent
                                                                                   Temporary storage for page layout lengths.
\vutinfth@tmp@baselineskip
                                                                                   472 \newlength{\vutinfth@tmp@parindent}%
               \vutinfth@tmp@parskip
                                                                                   473 \newlength{\vutinfth@tmp@baselineskip}%
                                                                                   474 \newlength{\vutinfth@tmp@parskip}%
                                                                                   Saves and restores relevant page layout lengths.
                 \vutinfth@savelayout
         \vutinfth@restorelayout
                                                                                   475 \newcommand{\vutinfth@savelayout}{%
```

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

#### 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.

```
485 \newsetlength{\vutinfth@header@placement}{-41.49731pt}%
486 \newsetlength{\vutinfth@bar@width}{511bp}%
487 \newsetlength{\vutinfth@bar@pivot@x}{47bp}%
488 \newsetlength{\vutinfth@bar@pivot@x}{330.71bp}%
489 \newsetlength{\vutinfth@bar@pivot@y}{25.31bp}%
490 \newsetlength{\vutinfth@logo@height}{46bp}%
491 \newsetlength{\vutinfth@logo@pivot@x}{4.57bp}%
492 \newsetlength{\vutinfth@logo@pivot@y}{5.37bp}%
493 \newsetlength{\vutinfth@logo@pivot@y}{5.37bp}%
494 + \vutinfth@bar@pivot@y - \vutinfth@logo@pivot@y}%
495 \newsetlength{\vutinfth@logo@offset@x}{-\vutinfth@bar@width
496 + \vutinfth@bar@pivot@x - \vutinfth@logo@pivot@x}%
497 \newsetlength{\vutinfth@logo@offset@y}{
498 - \vutinfth@bar@pivot@y + \vutinfth@logo@pivot@y}%
```

\vutinfth@header@titlepage

Initialize header.

```
499 \newcommand{\vutinfth@header@titlepage}{%
500
     \centering
     \begin{minipage}[b][\vutinfth@logo@offset@height][t]{%
501
         \vutinfth@bar@width
502
503
       \includegraphics{TU_INF_header}%
504
       \hspace*{\vutinfth@logo@offset@x}%
505
       \raisebox{\vutinfth@logo@offset@y}{%
506
         \includegraphics[scale=1]{TU_INF_Logo_gray}%
507
       }%
508
     \end{minipage}%
509
510 }%
```

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

```
\vutinfth@person@advisor@fullname\\
545
            \ifdef{\vutinfth@person@firstassistant@def}{%
546
              \vutinfth@polylingual@Assistance: &
547
              \vutinfth@person@firstassistant@fullname\\
548
549
            }{}%
            \ifdef{\vutinfth@person@secondassistant@def}{%
550
551
              \ifundef{\vutinfth@person@firstassistant@def}{%
552
                \vutinfth@person@firstassistant@error
             }{%
553
                & \vutinfth@person@secondassistant@fullname\\
554
             }%
555
            }{}%
556
            \ifdef{\vutinfth@person@thirdassistant@def}{%
557
              \ifundef{\vutinfth@person@firstassistant@def}{%
558
                \vutinfth@person@firstassistant@error
559
             }{%
560
                \ifundef{\vutinfth@person@secondassistant@def}{%
561
                  \vutinfth@person@secondassistant@error
562
563
                }{%
564
                  & \vutinfth@person@thirdassistant@fullname\\
               }%
565
            }%
566
          }{}%
567
          \end{tabular}%
568
569
       \end{minipage}%
570
     }%
     \ifgraduate{%
571
       \begin{minipage}[t][1.6cm][t]{\textwidth}%
572
          \vutinfth@normalsize
573
          \vutinfth@polylingual@Advisor:
574
         \vutinfth@person@advisor@fullname
575
576
          \ifphd{%
577
            \ifdef{\vutinfth@person@secondadvisor@def}{%
578
579
              \vutinfth@polylingual@Secondadvisor:
              \vutinfth@person@secondadvisor@fullname
580
           }{}%
581
         }%
582
583
       \end{minipage}\par%
     }%
584
585 }%
Set lengths of the signature blocks.
586 \newsetlength{\vutinfth@signature@height}{25mm}%
```

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

```
587 \mbox{ \newsetlength{\vutinfth@signature@width}{51mm}}\
588 \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.

```
589 \newcommand{\SignatureFields}[3][n]{%
     {\vutinfth@normalsize
590
       \left\{ f(x) \right\} 
591
         \begin{minipage}[b][\vutinfth@signature@height]{%
592
593
              \vutinfth@placedate@width
594
            \vutinfth@polylingual@Place,
595
            \displaydate{vutinfth@date@signing}\vspace*{\baselineskip}%
596
         \end{minipage}%
597
         \hfill
598
       }{}%
599
       \left\{ 1\right\} 
600
       \left\{ \frac{\#1}{h}\right\} 
601
         \hspace*{\vutinfth@placedate@width}%
602
603
         \hfill
604
       }{}%
       \ifstrempty{#2}{%
605
606
          \hspace*{\vutinfth@signature@width}%
607
          \hfill
608
          \begin{minipage}[b][\vutinfth@signature@height]{%
609
              \vutinfth@signature@width
610
            }%
611
            \centering
612
            \rule{\vutinfth@signature@width}{0.5pt}\\
613
614
            #2%
         \end{minipage}%
615
616
         \hfill
617
       }%
       \left\{ \frac{43}{3} \right\}
618
619
         \begin{minipage}[b][\vutinfth@signature@height]{%
620
              \vutinfth@signature@width
621
622
            \centering
            \rule{\vutinfth@signature@width}{0.5pt}\\
623
624
          \end{minipage}%
625
       }%
626
627
     }%
628 }%
```

\ReviewerBlock Generates a block with the relevant signatures.

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

```
631
        \ifdoctor{%
          {\vutinfth@normalsize
632
            \vutinfth@polylingual@Reviewed\\
633
            \SignatureFields[h]{%
634
               \vutinfth@person@firstreviewer@name
635
636
            }{%
637
               \vutinfth@person@secondreviewer@name
            }%
638
          }%
639
       }%
640
        \left\langle \right\rangle
641
          {\vutinfth@normalsize
642
            \vutinfth@polylingual@Reviewers\\
643
            \vutinfth@person@firstreviewer@name.
644
            \vutinfth@data@firstreviewerdata.\\
645
            \verb|\vutinfth@person@secondreviewer@name|.
646
            \vutinfth@data@secondreviewerdata.\\
647
          }%
648
649
       }%
650
     }%
651 }%
```

\SignatureBlock Generates a block with the relevant signatures.

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

678 }%

\AddTitlePage

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

```
679 \newcommand{\AddTitlePage}{
680 \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.

```
681 \newgeometry{%
682 left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
683 headsep=\vutinfth@header@placement,
684 head=2\vutinfth@logo@offset@height
685 }%
```

Save the current page layout lengths for later restoration.

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

Set title page text to helvetica.

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

Title and subtitle are bottom aligned and grow upwards.

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

```
\vutinfth@bigskip
711
712
           {\vutinfth@large\vutinfth@polylingual@in}\par
           \vutinfth@bigskip
713
           {\vutinfth@Large{\bfseries\vutinfth@polylingual@Curriculum}}\par
714
         }%
715
716
         \ifgraduate{%
717
           {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
           \ifphd{%
718
             \vutinfth@bigskip
719
             {\vutinfth@large\vutinfth@polylingual@within}\par
720
             \vutinfth@bigskip
721
             {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@School}}\par
722
           }%
723
         }%
724
         \vutinfth@bigskip
725
         {\vutinfth@large\vutinfth@polylingual@by}\par
726
         \vutinfth@bigskip
727
         {\vutinfth@Large{\bfseries\vutinfth@person@author@fullname}}\par
728
729
         \smallskip
730
         {\vutinfth@large\vutinfth@polylingual@Registrationnumber\
         \vutinfth@data@regnumber}\par
731
732
       }%
       \vutinfth@bigskip\vutinfth@bigskip
733
       \ifgraduate{\ifphd{\vspace*{-8mm}}}%
734
735
       \begin{minipage}[b][1.6cm][c]{\textwidth}%
736
         \vutinfth@normalsize%
         \vutinfth@polylingual@faculty\par
737
         \vutinfth@polylingual@university
738
       \end{minipage}\par
739
       \AdvisorBlock\par
740
```

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
741
       \ReviewerBlock\par
742
       \SignatureBlock\par
743
744
       \vspace*{1cm}%
745
     \end{SFFont}%
746
     \pagestyle{empty}%
     \cleardoublepage
747
     \vutinfth@restorelayout
748
     \restoregeometry
749
750 }%
```

#### 5.3.3 Front Matter Material

\AddStatementPage Generates the statement page.

```
Set the same page geometry as for the titlepages.
                   752 %^^A \newgeometry{%
                   753 %^^A
                               left=2.4cm,right=2.4cm,bottom=2.5cm,top=2cm,
                   754 %^^A
                               headsep=\vutinfth@header@placement,
                   755 %^^A
                               head=2\vutinfth@logo@offset@height
                   756 %^^A }%
                   Save the current page layout lengths for later restoration.
                         \vutinfth@savelayout
                   757
                         \setlength{\parindent}{0pt}%
                   758
                         \setlength{\baselineskip}{13.6pt}%
                   759
                   760
                         \setlength{\parskip}{Opt plus 1pt}%
                         \begin{SFFont}{phv}%
                   761
                   762
                           \sffamily
                             \chapter*{\vutinfth@polylingual@StatementChapter}%
                   763
                             \vutinfth@person@author@fullname\\
                   764
                             \vutinfth@data@address\par
                   765
                             \vspace{1.2cm}%
                   766
                             {\normalfont\vutinfth@polylingual@Statement}\par
                   767
                             \vspace{1.2cm}%
                   768
                             \SignatureFields[y]{\vutinfth@person@author@name}{}%
                   769
                         \end{SFFont}%
                   770
                         \cleardoublepage
                         \vutinfth@restorelayout
                   773 %^^A \restoregeometry
                   774 }%
                   Generates the titlepage in given language.
    \addtitlepage
                   775 \newcommand{\addtitlepage}[1]{%
                   776 \selectlanguage{#1}%
                        \AddTitlePage
                   778 }%
                   Generates the statement page.
\addstatementpage
                   779 \newcommand{\addstatementpage}{%
                         \selectlanguage{naustrian}%
                   780
                         \ifundergraduate{\AddStatementPage}%
                   781
                         \ifgraduate{%
                   782
                           \ifdoctor{\AddStatementPage}%
                   783
                   784
                           \ifphd{%
                   785
                             \selectlanguage{english}%
                   786
                             \AddStatementPage
                   787
                           }%
```

788 }% 789 }%

751 \newcommand{\AddStatementPage}{

```
Generates the English acknowledgement section.
                    790 \newenvironment{acknowledgements}{%
                         \selectlanguage{english}%
                    792
                         \chapter{Acknowledgements}%
                    793 }{%
                        \cleardoublepage
                    794
                    795 }%
                   Generates the English acknowledgement section without an entry in the table of
acknowledgements*
                    contents.
                    796 \newenvironment{acknowledgements*}{%
                         \selectlanguage{english}%
                        \chapter*{Acknowledgements}%
                    798
                    799 }{%
                    800 \cleardoublepage
                    801 }%
                   Generates the German acknowledgement section.
       danksagung
                    802 \verb| newenvironment{danksagung}{%} \\
                        \selectlanguage{naustrian}%
                    804
                         \chapter{Danksagung}%
                    805 }{%
                    806
                        \cleardoublepage
                    807 }%
                   Generates the German acknowledgement section without an entry in the table of
      danksagung*
                    808 \newenvironment{danksagung*}{%
                        \selectlanguage{naustrian}%
                        \chapter*{Danksagung}%
                    810
                    811 }{%
                    812 \cleardoublepage
                    813 }%
         abstract Generates the English abstract.
                    814 \renewenvironment{abstract}{%
                        \selectlanguage{english}%
                    815
                    816
                         \chapter{Abstract}%
                    817 }{%
                    818
                        \cleardoublepage
                    819 }%
```

acknowledgements

abstract\* Generates the English abstract without an entry in the table of contents.

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

v1.1	ReviewerBlock: Updated to sup-				
General: Added references to the	port external reviewers. Issue				
GitLab environment 1	#4				
v1.3	\setthesis: Altered to support				
General: Added support for a dis-	multiple dissertation types. Is-				
sertation at the Vienna Phd	sue #4				
School of Informatics. Issue #4 1	\SignatureBlock: Updated to sup-				
\AddStatementPage: Updated to	port multiple dissertation types.				
support multiple languages. Is-	Issue #4 29				
sue #4 31	\vutinfth@thesis@doctortype:				
\addstatementpage: Updated to	Added to support multiple dis-				
support english version. Issue	sertation types. Issue $\#4 \ldots 17$				
#4	\vutinfth@thesis@doctortype@doctor:				
\AddTitlePage: Added check for	Added to support multiple dis-				
subtitle existance before usage.	sertation types. Issue #4 17				
Issue #1	\vutinfth@thesis@doctortype@phd:				
Updated to support PhD School	Added to support multiple dis-				
mentioning and fixed the associated vertical overflow. Issue #4 30	sertation types. Issue #4 17				
	\vutinfth@thesis@phd: Added to				
\AdvisorBlock: Updated to sup-	support multiple dissertation				
port second advisor. Issue #4 26	types. Issue #4 18				
Persons: Updated to support sec-	v1.4				
ond advisor. Issue Issue #4 21	General: Added comma to separate				
Textual∟Data: Updated to support	posttitle and changed mainmat-				
external reviewer data. Issue	ter pagestyle to 'Ruled' 1				
$#4 \dots 21$	\mainmatter: Added 'Ruled'				
\ifdoctor: Added to support mul-	pagestyle $34$				
tiple dissertation types. Issue	\vutinfth@def@person: Added				
#4 17	comma to separate posttitle 12				
\ifphd: Added to support multiple	v1.5				
dissertation types. Issue #4 17	General: Updated name of univer-				
PolyLinguals: Added to support	sity to 'TU Wien' 1				
multiple dissertation types. Is-	PolyLinguals: Updated name of				
sue #4	university to 'TU Wien' 21				
<b>-</b> .					
Index					
Symbols					
Symbols	262 266 200 200 200 200 515				
\"					
\@empty	$\dots \dots $				
\@namedef 47, 48, 51, 54, 57, 71, 72, 7	3, 74, 76, 79, 83, 86, 88, 94, 96, 100, 102,				
108, 111, 113, 115, 117, 119, 12	3, 129, 130, 167				
\@namelet					
\Qnameuse 54, 112, 114, 116, 118, 120, 132, 139, 148, 158, 159					
\@namexdef \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
	$\dots \dots \underline{218}, 231, 240, 251, 262, 280$				
\@setgendereddegreename	218, 272, 284, 292, 304, 311, 318				

\@setthesisname	218,	230,	236,	250,	261,	271,	279,	283,	291
\\ 515, 545, 548, 554, 564,	578,	613,	623,	633,	643,	645,	647,	696,	764
\									730
$\mathbf{A}$									
abstract (environment)									
abstract* (environment)									
${\tt acknowledgements} \ (environment)  . \ .$								. 7,	<u>790</u>
$\verb"acknowledgements*" (environment)  .$								. 7,	796
\AddLanguage						. 8,	<u>128</u> ,	337,	338
\AddStatementPage					. <i>9</i> ,	<u>751</u> ,	781,	783,	786
\addstatementpage								. 7,	779
\AddTitlePage							. 9,	679,	777
\addtitlepage									
\addto									
\AdvisorBlock									
\aliaspagestyle									
(41145)48525)12								011,	0 1 <b>2</b>
В									
\backmatter									841
\baselineskip									
\begin 501, 513, 541,									
\begingroup									
\bfseries									
\bigskip									
(~-0~									
$\mathbf{C}$									
\centering			500,	512,	514,	612.	622.	692,	695
\chapter									
\chapterstyle									
\ClassError									
\cleardoublepage 747,									
\CreateData									
\CreatePerson									
\CreatePolylingual . 8, 162, 339,		,	,		,	,	,	,	
367, 370, 373, 375, 378, 381,									
424, 427, 430, 433, 437, 441,									
\csname									18
\CurrentOption									
(Currentoption									. 4
D									
danksagung (environment)								7	802
danksagung* (environment)									
\DeclareOption									
\displaydate									
/ATDDTA/AGC									* 1 - 7 ( )

Т	ı	١.	٦
	ı	н	U,

\edef 21	1, 22
\else	144
$\verb \end   \   \ldots \  \   509, 520, 568, 569, 583, 597, 615, 625, 703, 739, 745,\\$	770
\endcsname	18
\endgroup 25, 37,	166
environments:	
abstract	814
abstract*	820
acknowledgements	790
acknowledgements*	796
danksagung	802
danksagung*	808
kurzfassung	826
kurzfassung*	832
SFFont	9, <u>33</u>
\expandafter 18, 25	3, 24
F	
\f@family 36	,
\fi	
\fontsize 27, 28, 29, 30, 31	1, 32
\footruleskip	532
\frontmatter	841
G	
\global	
\graphicspath	17
11	
H	010
\hfill 598, 603, 607,	
\hspace 505, 602,	606
ī	
\ifcsempty	1/11
\ifcsstring65	
\ifdef	
\ifdefstrequal	
\ifdefstring 75, 78, 159, 227, 233, 245, 256, 270, 278, 282, 290, 303, 310,	
\ifdoctor <u>188</u> , 631, 664,	
\ifdraftdoc	
\ifestrequal <u>19,</u> 175, 180, 189,	
\\ \text{iffemale} \qquad \qqqqq \qqqqqqqqqqqqqqqqqqqqqqqqqqqqq	
\ifgraduate <u>174, 571, 630, 662, 716, 734,</u>	
\ifmale	
\ifphd <u>188, 576, 641, 669, 718, 734,</u>	784

\ifstrempty	81, 82, 85, 92, 93, 99, 605,	618
\ifstrequal		
\ifundef		
\ifundergraduate		
\includegraphics		
K		
kurzfassung (environment)		826
kurzfassung* (environment)		
${f L}$		
\languagename		159
\Languages		337
\let		
\LoadClass		. 5
$\mathbf{M}$		
\mainmatter		
\makeevenfoot	,	
\makeevenhead		
\makefootrule		
\makeheadposition		
\makeoddfoot		
\makeoddhead		
\makepagestyle		
\makerunningwidth		923
${f N}$		
$\mbox{\newcommand}\ 18,19,27,28,29,30,31,32,43$		,
122, 128, 134, 153, 162, 170, 172, 174		
206, 210, 214, 215, 216, 217, 218, 220		
299, 300, 301, 302, 458, 461, 464, 467	7, 471, 475, 480, 499, 511, 538,	539,
589, 629, 652, 679, 751, 775, 779		
\newdate		
\newenvironment 3		
\newgeometry	· · · · · · · · · · · · · · · · · · ·	
\newlength\newlength . 467, 485, 486, 487, 488, 489		
586, 587, 588	9, 490, 491, 492, 493, 493, 497,	991,
\normalfont		767
P		
\pagestyle		845
\par . 583, 693, 703, 705, 707, 710, 712, 714 739, 740, 742, 743, 765, 767		
\parindent\	A76 A81 687	758
\parskip		
\p~=~==p	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

\PassOptionsToClass .												. 2
\Persons												
\PolyLinguals												
\ProcessOptions												
•												
	${f R}$											
\raisebox												
\relax											,	
$\verb \renewcommand  \dots \dots$	38,	41, 13	38, 1	157,	219,	221,	228,	234,	246,	248,	257,	259
\renewenvironment												
\RequirePackage						7, 8	, 9, 1	0, 11	, 12,	13, 1	4, 15	, 16
\restoregeometry											749,	773
\ReviewerBlock										. <i>9</i> ,	<u>629</u> ,	742
\rule										471,	613,	623
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