

The `vutinfth` class*

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February 10, 2023

Abstract

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

*This document corresponds to `vutinfth` v1.10, dated 2020/02/20.

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1 Introduction

This class provides a L^AT_EX 2_ε 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., `\commandP`, indicates such a command.

3.1.1 Textual Data

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

	Command	Role	Type	Optional
<code>\setfirstreviewerdata</code>	<code>\setregnumber</code>	Registration number of the author	All	No
<code>\setsecondreviewerdata</code>	<code>\settitle^P</code>	Title of the thesis	All	No
	<code>\setsubtitle^P</code>	Subtitle of the thesis	All	Yes
	<code>\setcurriculum^P</code>	Name of the curriculum	B, M	No
Types: Bachelor (B), Master (M), Doctoral (D), PhD School (P), All (All)				

Command	Role	Type	Optional
<code>\setfirstreviewerdata</code>	Affiliation and country of first reviewer	P	No
<code>\setsecondreviewerdata</code>	Affiliation and country of second reviewer	P	No
Types: Bachelor (B), Master (M), Doctoral (D), PhD School (P), All (All)			

3.1.2 Persons

`\setauthor` All commands in this section are called with four mandatory arguments, e.g., as `\setadvisor \command{\langle pretitle \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`. `\setsecondadvisor` 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 `\setthirdassistant`. 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
<code>\setauthor</code>	Author of the thesis	All	No
<code>\setadvisor</code>	Main advisor of the thesis	All	No
<code>\setsecondadvisor</code>	Second advisor of the thesis	D, P	Yes
<code>\setfirstassistant</code>	First advising assistant	B, M	Yes
<code>\setsecondassistant</code>	Second advising assistant	B, M	Yes
<code>\setthirdassistant</code>	Third advising assistant	B, M	Yes
<code>\setfirstreviewer</code>	First thesis reviewer	D, P	No
<code>\setsecondreviewer</code>	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 mandatory 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
<code>\setdate</code>	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 mandatory 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
<code>\command{\<.\}\<.\}\<.\}\<list\}</code>	male	Specifies a male person.
	female	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
<code>\setthesis{\<list\}</code>	bachelor	Specifies a bachelor's thesis.
	master	Specifies a master's thesis.
	doctor	Specifies a dissertation.
	phd-school	Specifies a disseration 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
<code>\setmasterdegree{\<list\}</code>	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
<code>\setdoctordegree{\<list\}</code>	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{⟨english⟩}{⟨german⟩}`, it sets the name of the curriculum that the student is enrolled in. The name can be given in English, with `⟨english⟩`, and in German, with `⟨german⟩`. 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{⟨english⟩}{⟨german⟩}`, it sets the title of the thesis. The title can be given both in an English version, with `⟨english⟩`, and in a German version, with `⟨german⟩`. 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{⟨english⟩}{⟨german⟩}`, 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
<code>\addtitlepage{⟨list⟩}</code>	<code>english</code>	Generates an English title page.
	<code>naustrian</code>	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{⟨lang⟩}`, where `⟨lang⟩` is the name of a language as given in the `babel` package (see Section 3.1.4). The necessary pieces of information have to be set beforehand (as described in Section 3.1). This command is usually used directly after `\begin{document}\frontmatter`.

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

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

4 Usage for Class Writers

To accomodate 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{<name>}`, it generates a command `\set{<name>}`. Used as `\set{<name>}{<string>}`, the newly created command assigns the value `<string>` to the internal variable `\vutinfth@data@<name>`. The variable is initialized with an error value to alert the user of the fact that `<string>` 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{<name>}`, it generates a command `\set{<name>}`. Used as `\set{<name>}{<pretile>}{<personname>}{<posttile>}{<gender>}`, the newly created command assigns the supplied values to the corresponding internal variables `\vutinfth@person@<name>@...` as given in the table below.

Argument	Internal Variable
	<code>\vutinfth@person@<name>@def</code>
<code><pretile></code>	<code>\vutinfth@person@<name>@pretile</code>
<code><personname></code>	<code>\vutinfth@person@<name>@name</code>
<code><posttile></code>	<code>\vutinfth@person@<name>@posttile</code>
<code><gender></code>	<code>\vutinfth@person@<name>@gender</code>

The command `\vutinfth@person@<name>@def` is created to increase source code readability when verifying the existence of a specific person. Furthermore, the command `\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{<lang>}`, it enables the language `<lang>` to be used by polylingual expressions. `<lang>` has to be chosen 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 `\CreatePolylingual[⟨expressions⟩]{⟨name⟩}`, it generates a command `\vutinfth@polylingual@⟨name⟩` that selects the appropriate expression based on the current language at the time of use. The argument `⟨expressions⟩` is a list of elements of the form `⟨expri⟩`, where each element defines the expression for a valid language, e.g., `⟨langi⟩=⟨texti⟩`. `⟨langi⟩` 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[⟨mode⟩]{⟨center⟩}{⟨right⟩}`, it creates a place and date description and/or one or two signature fields. `⟨mode⟩` 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 `⟨center⟩`, it is added below a rule, right to the possible date and place entry. If text is supplied to `⟨right⟩`, it is added below a rule, right to the possible signature field created by `⟨center⟩`. This command ensures a uniform width and positioning of the signature fields on both the title pages and the statement of originality.
- `\SignatureBlock` Used as `\SignatureBlock`, it generates the signature fields for both author and advisor.
- `\ReviewerBlock` Used as `\ReviewerBlock`, it generates the signature fields for both reviewers.
- `\AdvisorBlock` Used as `\AdvisorBlock`, it generates the name fields for both the advisor and the potential assistants.
- `\AddTitlePage` Used as `\AddTitlePage`, it generates a title page in the current language. This command contains the placement of the header graphics, the footer, the appropriate blocks, etc.
- `\AddStatementPage` Used as `\AddStatementPage`, it generates a chapter with the statement of originality together with the author's signature field.
- `SFFont` (*env.*) Alters the sans serif font inside the environment. Called with one mandatory argument as `\begin{SFFont}{⟨family⟩}`, 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.

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

```
18 \newcommand{\@namexdef}[1]{\expandafter\xdef\csname#1\endcsname}%
```

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

```
19 \newcommand{\ifstrequal}[4]{%
20   \begingroup
21     \edef\vutinfth@tempa{{#1}}%
22     \edef\vutinfth@tempb{{#2}}%
23     \expandafter\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 27 \newcommand{\vutinfth@HUGE}{\fontsize{30}{34}\selectfont}%
\vutinfth@Large 28 \newcommand{\vutinfth@huge}{\fontsize{20}{23}\selectfont}%
\vutinfth@large 29 \newcommand{\vutinfth@LARGE}{\fontsize{17}{22}\selectfont}%
\vutinfth@large 30 \newcommand{\vutinfth@Large}{\fontsize{14}{18}\selectfont}%
\vutinfth@normalsize 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]{%
51   \@namedef{vutinfth@data@#1@error}{%
52     \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
53   }%
54   \@namedef{vutinfth@data@#1}{\@nameuse{vutinfth@data@#1@error}}%
55 }%
```

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

```

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

5.2.3 Persons

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

```

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

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

```

64 \newcommand{\ifmale}[2]{%
65   \ifsstring{vutinfth@person@#1@gender}{\vutinfth@person@male}{#2}{}%
66 }%
67 \newcommand{\iffemale}[2]{%
68   \ifsstring{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]{%
71   \@namedef{vutinfth@person@#1@def}{}%
72   \@namedef{vutinfth@person@#1@prettitle}{#2}%
73   \@namedef{vutinfth@person@#1@name}{#3}%
74   \@namedef{vutinfth@person@#1@posttitle}{#4}%
75   \ifdefstring{vutinfth@person@male}{#5}{%
76     \@namedef{vutinfth@person@#1@gender}{\vutinfth@person@male}%
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 \ifstrempy{#3}{%
82   \ifstrempy{#2}{%
83     \@namedef{vutinfth@person@#1@fullname}{#4}%
84   }{%
```

```

85     \ifstrempy{#4}{%
86         \@namedef{vutinfth@person@#1@fullname}{#2}%
87     }{%
88         \@namedef{vutinfth@person@#1@fullname}{#2 #4}%
89     }%
90 }%
91 }{%
92     \ifstrempy{#2}{%
93         \ifstrempy{#4}{%
94             \@namedef{vutinfth@person@#1@fullname}{#3}%
95         }{%
96             \@namedef{vutinfth@person@#1@fullname}{#3, #4}%
97         }%
98     }{%
99         \ifstrempy{#4}{%
100             \@namedef{vutinfth@person@#1@fullname}{#2 #3}%
101         }{%
102             \@namedef{vutinfth@person@#1@fullname}{#2 #3, #4}%
103         }%
104     }%
105 }%
106 }%

```

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

```

107 \newcommand{\vutinfth@def@person@invalid}[2]{%
108     \@namedef{vutinfth@person@#1@error}{%
109         \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
110     }%
111     \@namedef{vutinfth@person@#1@name}{%
112         \@nameuse{vutinfth@person@#1@error}}%
113     \@namedef{vutinfth@person@#1@prettitle}{%
114         \@nameuse{vutinfth@person@#1@error}}%
115     \@namedef{vutinfth@person@#1@posttitle}{%
116         \@nameuse{vutinfth@person@#1@error}}%
117     \@namedef{vutinfth@person@#1@gender}{%
118         \@nameuse{vutinfth@person@#1@error}}%
119     \@namedef{vutinfth@person@#1@fullname}{%
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     \@namedef{set#1}##1##2##3##4{%
124         \vutinfth@def@person{#1}{##1}{##2}{##3}{##4}%
125     }%
126     \vutinfth@def@person@invalid{#1}{\string\set#1}%
127 }%

```

5.2.4 Polylingual Text

This class supports bi- and polylingual text via a key-value mechanism. See the `\CreatePolylingual` command further down for the actual definition of 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     \ifcempty{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’.]%
```

```

144         }\else{%
145             \relax
146         }\fi
147     }{%

```

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 `\language`. If it matches the language, which was supplied as the argument, the content of the current permanent storage is returned.

```

159     \ifdefstring{\language}{#1}{\@nameuse{vutinfth@##1@#1}}{}%
160 }%
161 }%

```

\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 transferred 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

`@thesis@basetype@undergraduate` Two thesis categories are differentiated: `undergraduate` and `graduate`.
`infth@thesis@basetype@graduate`

```
170 \newcommand{\vutinfth@thesis@basetype@undergraduate}{%
171 \vutinfth@undergraduate}%
172 \newcommand{\vutinfth@thesis@basetype@graduate}{%
173 \vutinfth@graduate}%
```

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

```
174 \newcommand{\ifundergraduate}[1]{%
175 \ifstrequal{\vutinfth@thesis@basetype}{%
176 \vutinfth@thesis@basetype@undergraduate
177 }{#1}{}%
178 }%
179 \newcommand{\ifgraduate}[1]{%
180 \ifstrequal{\vutinfth@thesis@basetype}{%
181 \vutinfth@thesis@basetype@graduate
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}{%
187 \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 \ifstrequal{\vutinfth@thesis@doctortype}{%
190 \vutinfth@thesis@doctortype@doctor
191 }{#1}{}%
192 }%
193 \newcommand{\ifphd}[1]{%
194 \ifstrequal{\vutinfth@thesis@doctortype}{%
195 \vutinfth@thesis@doctortype@phd
```

```

196 }{#1}{}%
197 }%

```

```

\utinfth@thesis@basetype Initialize the thesis category, the type and the specific degree with error messages.
\utinfth@thesis@doctortype
\utinfth@thesis@thesisname 198 \newcommand{\utinfth@thesis@basetype}{%
\utinfth@thesis@degreename 199 \ClassError{\utinfth}{No \string\setthesis \space issued}{%
200 Set thesis type with \string\setthesis.}%
201 }%
202 \newcommand{\utinfth@thesis@doctortype}{%
203 \ClassError{\utinfth}{No \string\setthesis \space issued}{%
204 Set thesis type with \string\setthesis.}%
205 }%
206 \newcommand{\utinfth@polylingual@degreename}{%
207 \ClassError{\utinfth}{No \string\setthesis \space issued}{%
208 Set thesis type with \string\setthesis.}%
209 }%
210 \newcommand{\utinfth@polylingual@thesisname}{%
211 \ClassError{\utinfth}{No \string\setthesis \space issued}{%
212 Set thesis type with \string\setthesis.}%
213 }%

```

```

\utinfth@thesis@bachelor Four main thesis types are differentiated: bachelor, master, doctor, and
\utinfth@thesis@master phd-school.
\utinfth@thesis@doctor
\utinfth@thesis@phd 214 \newcommand{\utinfth@thesis@bachelor}{bachelor}%
215 \newcommand{\utinfth@thesis@master}{master}%
216 \newcommand{\utinfth@thesis@doctor}{doctor}%
217 \newcommand{\utinfth@thesis@phd}{phd-school}%

```

\setthesisname Internal convenience macros.

```

\setdegreename
\setgendereddegreename 218 \newcommand{\setthesisname}[1]{%
219 \renewcommand{\utinfth@polylingual@thesisname}{#1}}%
220 \newcommand{\setdegreename}[1]{%
221 \renewcommand{\utinfth@polylingual@degreename}{#1}}%
222 \newcommand{\setgendereddegreename}[2]{%
223 \ifmale{author}{\setdegreename{#1}}%
224 \iffemale{author}{\setdegreename{#2}}%
225 }%

```

\setthesis Sets the thesis type.

```

226 \newcommand{\setthesis}[1]{%
227 \ifdefstring{\utinfth@thesis@bachelor}{#1}{%

```

Initializes bachelor thesis type.

```

228 \renewcommand{\utinfth@thesis@basetype}{%
229 \utinfth@thesis@basetype@undergraduate}%
230 \setthesisname{\utinfth@polylingual@BACHELORTHESIS}%
231 \setdegreename{\utinfth@polylingual@Bdeg}%
232 }{}%
233 \ifdefstring{\utinfth@thesis@master}{#1}{%

```


Initializes master thesis type.

```

234 \renewcommand{\vutinfth@thesis@basetype}{%
235 \vutinfth@thesis@basetype@undergraduate}%
236 \@setthesisname{%
237 \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
238 Set masterdegree with \string\setmasterdegree.}%
239 }%
240 \@setdegreeename{%
241 \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
242 Set master degree with \string\setmasterdegree.}%
243 }%
244 }{}%
245 \ifdefstring{\vutinfth@thesis@doctor}{#1}{%

```

Initializes doctor thesis type.

```

246 \renewcommand{\vutinfth@thesis@basetype}{%
247 \vutinfth@thesis@basetype@graduate}%
248 \renewcommand{\vutinfth@thesis@doctortype}{%
249 \vutinfth@thesis@doctortype@doctor}%
250 \@setthesisname{\vutinfth@polylingual@DOCTORTHESIS}%
251 \@setdegreeename{%
252 \ClassError{vutinfth}{No \string\setdoctordegree \space issued}{%
253 Set doctor degree with \string\setdoctordegree.}%
254 }%
255 }{}%
256 \ifdefstring{\vutinfth@thesis@phd}{#1}{%

```

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}%
261 \@setthesisname{\vutinfth@polylingual@PHDTHESIS}%
262 \@setdegreeename{\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..
\vutinfth@thesis@mdeg@rernat
\vutinfth@thesis@mdeg@rersocoec
265 \newcommand{\vutinfth@thesis@mdeg@dipl}{dipl.}%
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]{%
270 \ifdefstring{\vutinfth@thesis@mdeg@dipl}{#1}{%
271 \@setthesisname{\vutinfth@polylingual@DIPLOMATHESIS}%
272 \@setgendereddegreeename{%
273 \vutinfth@polylingual@mdegDiplMale

```

```

274 }{%
275 \vutinfth@polylingual@MdegDiplFemale
276 }%
277 }{}%
278 \ifdefstring{\vutinfth@thesis@mdeg@master}{#1}{%
279 \setthesishname{\vutinfth@polylingual@MASTERTHESIS}%
280 \setdegreename{\vutinfth@polylingual@MdegMaster}%
281 }{}%
282 \ifdefstring{\vutinfth@thesis@mdeg@rernat}{#1}{%
283 \setthesishname{\vutinfth@polylingual@MASTERTHESIS}%
284 \setgendereddegreename{%
285 \vutinfth@polylingual@MdegRerNatMale
286 }{%
287 \vutinfth@polylingual@MdegRerNatFemale
288 }%
289 }{}%
290 \ifdefstring{\vutinfth@thesis@mdeg@rersocoec}{#1}{%
291 \setthesishname{\vutinfth@polylingual@MASTERTHESIS}%
292 \setgendereddegreename{%
293 \vutinfth@polylingual@MdegRerSocOecMale
294 }{%
295 \vutinfth@polylingual@MdegRerSocOecFemale
296 }%
297 }{}%
298 }%

```

\vutinfth@thesis@ddeg@rernat Three doctor degrees can be selected: rer.nat., techn., and rer.soc.oec..
\vutinfth@thesis@ddeg@techn
\vutinfth@thesis@ddeg@rersocoec
299 \newcommand{\vutinfth@thesis@ddeg@rernat}{rer.nat.}%
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]{%
303 \ifdefstring{\vutinfth@thesis@ddeg@rernat}{#1}{%
304 \setgendereddegreename{%
305 \vutinfth@polylingual@DdegRerNatMale
306 }{%
307 \vutinfth@polylingual@DdegRerNatFemale
308 }%
309 }{}%
310 \ifdefstring{\vutinfth@thesis@ddeg@techn}{#1}{%
311 \setgendereddegreename{%
312 \vutinfth@polylingual@DdegTechnMale
313 }{%
314 \vutinfth@polylingual@DdegTechnFemale
315 }%
316 }{}%
317 \ifdefstring{\vutinfth@thesis@ddeg@rersocoec}{#1}{%
318 \setgendereddegreename{%
319 \vutinfth@polylingual@DdegRerSocOecMale
320 }{%
321 \vutinfth@polylingual@DdegRerSocOecFemale

```

```

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
347     for the degree of,
348   naustrian=zur Erlangung des akademischen Grades]{submission}%
349 \CreatePolylingual[
350   english=in,
351   naustrian=im Rahmen des Studiums]{in}%
352 \CreatePolylingual[
353   english=within the]{within}%
354 \CreatePolylingual[
355   english=Vienna PhD School of Informatics]{School}%
356 \CreatePolylingual[
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[
369  english=Assistance,
370  naustrian=Mitwirkung]{Assistance}%
371 \CreatePolylingual[
372  english=The dissertation has been reviewed by:,
373  naustrian=Diese Dissertation haben begutachtet:]{Reviewed}%
374 \CreatePolylingual[
375  english=External reviewers:]{Reviewers}%
376 \CreatePolylingual[
377  english=Vienna,
378  naustrian=Wien]{Place}%
379 \CreatePolylingual[
380  english=Declaration of Authorship,
381  naustrian=Erkl\"arung zur Verfassung der Arbeit]{StatementChapter}%
382 \CreatePolylingual[
383  english={I hereby declare that I have written this Doctoral Thesis
384    independently, that I have completely specified the utilized
385    sources and resources and that I have definitely marked all parts
386    of the work - including tables, maps and figures - which belong
387    to other works or to the internet, literally or extracted, by
388    referencing the source as borrowed.},
389  naustrian={Hiermit erkl\"are ich, dass ich diese Arbeit
390    selbst\"andig verfasst habe, dass ich die verwendeten Quellen
391    und Hilfsmittel vollst\"andig angegeben habe und dass ich die
392    Stellen der Arbeit -- einschlie\sslich Tabellen, Karten und
393    Abbildungen --, die anderen Werken oder dem Internet im Wortlaut
394    oder dem Sinn nach entnommen sind, auf jeden Fall unter Angabe
395    der Quelle als Entlehnung kenntlich gemacht habe.}]{Statement}%

```

Degree titles.

```

396 \CreatePolylingual[
397  english=Bachelor of Science,
398  naustrian=Bachelor of Science]{Bdeg}%
399 \CreatePolylingual[
400  english=Master of Science,
401  naustrian=Master of Science]{MdegMaster}%
402 \CreatePolylingual[
403  english=Diplom-Ingenieur,
404  naustrian=Diplom-Ingenieur]{MdegDiplMale}%
405 \CreatePolylingual[
406  english=Diplom-Ingenieurin,
407  naustrian=Diplom-Ingenieurin]{MdegDiplFemale}%
408 \CreatePolylingual[
409  english=Magister der Naturwissenschaften,
410  naustrian=Magister der Naturwissenschaften]{MdegRerNatMale}%
411 \CreatePolylingual[

```

```

412 english=Magistra der Naturwissenschaften,
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]{%
421 MdegRerSocOecFemale}%
422 \CreatePolylingual[
423 english=Doktor der Naturwissenschaften,
424 naustrian=Doktor der Naturwissenschaften]{DdegRerNatMale}%
425 \CreatePolylingual[
426 english=Doktorin der Naturwissenschaften,
427 naustrian=Doktorin der Naturwissenschaften]{DdegRerNatFemale}%
428 \CreatePolylingual[
429 english=Doktor der Technischen Wissenschaften,
430 naustrian=Doktor der Technischen Wissenschaften]{DdegTechnMale}%
431 \CreatePolylingual[
432 english=Doktorin der Technischen Wissenschaften,
433 naustrian=Doktorin der Technischen Wissenschaften]{DdegTechnFemale}%
434 \CreatePolylingual[
435 english=Doktor der Sozial- und Wirtschaftswissenschaften,
436 naustrian=Doktor der Sozial- und Wirtschaftswissenschaften]{%
437 DdegRerSocOecMale}%
438 \CreatePolylingual[
439 english=Doktorin der Sozial- und Wirtschaftswissenschaften,
440 naustrian=Doktorin der Sozial- und Wirtschaftswissenschaften]{%
441 DdegRerSocOecFemale}%
442 \CreatePolylingual[
443 english=Doctor of Technical Sciences]{%
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]{%
466   \CreatePolylingual[english=#1,naustrian=#2]{Curriculum}%
467 }%

```

5.3 Layout

5.3.1 Setup

`\vutinfth@squarebullet` Set internal convenience macros.

```

468 \newcommand{\newsetlength}[2]{%
469   \newlength{#1}%
470   \setlength{#1}{#2}%
471 }%
472 \newcommand{\vutinfth@squarebullet}{\rule[0.47ex]{0.4ex}{0.4ex}}%

```

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

```

\vutinfth@tmp@baselineskip
\vutinfth@tmp@parskip
473 \newlength{\vutinfth@tmp@parindent}%
474 \newlength{\vutinfth@tmp@baselineskip}%
475 \newlength{\vutinfth@tmp@parskip}%

```

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

```

\vutinfth@restorelayout
476 \newcommand{\vutinfth@savelayout}{%
477   \setlength{\vutinfth@tmp@parindent}{\parindent}%
478   \setlength{\vutinfth@tmp@baselineskip}{\baselineskip}%
479   \setlength{\vutinfth@tmp@parskip}{\parskip}%
480 }%
481 \newcommand{\vutinfth@restorelayout}{%
482   \setlength{\parindent}{\vutinfth@tmp@parindent}%
483   \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@offset@y}%
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}{%
500   \centering
501   \begin{minipage}{\textwidth}%
502     \centering\vutinfth@normalsize\sffamily
503     Technische Universit\"{a}t Wien\\
504     A-1040 Wien \vutinfth@squarebullet\space
505     Karlsplatz 13 \vutinfth@squarebullet\space
506     Tel. +43-1-58801-0 \vutinfth@squarebullet\space
507     www.tuwien.at%
508   \end{minipage}%
509 }%

```

vutinfth@pagestyle@titlepage Generate the title page style.

```

510 \makepagestyle{\vutinfth@pagestyle@titlepage}%
511 \makerunningwidth{\vutinfth@pagestyle@titlepage}{\textwidth}{%
512   \vutinfth@header@width}%
513 \makeheadposition{\vutinfth@pagestyle@titlepage}{%
514   center}{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}{%
520   \vutinfth@pagestyle@titlepagefootrunwidth}{0.5pt}{\footruleskip}%
521 \makeevenfoot{\vutinfth@pagestyle@titlepage}{-}{%
522   \vutinfth@footer@titlepage}{-}%
523 \makeoddfoot{\vutinfth@pagestyle@titlepage}{-}{%
524   \vutinfth@footer@titlepage}{-}%

```

Set style element specifications.

```

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

```

Helper functions.

```
526 \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 first.

```
527 \newcommand{\AdvisorBlock}{%
528   \ifundergraduate{%
529     \begin{minipage}[t][2.5cm][t]{\textwidth}%
530       \vutinfth@normalsize
531       \begin{tabular}{@{}l@{ }l}%
532         \vutinfth@polylingual@Advisor: &
533         \vutinfth@person@advisor@fullname\\
534         \ifdef{\vutinfth@person@firstassistant@def}{%
535           \vutinfth@polylingual@Assistance: &
536           \vutinfth@person@firstassistant@fullname\\
537         }{%
538           \ifdef{\vutinfth@person@secondassistant@def}{%
539             \ifundef{\vutinfth@person@firstassistant@def}{%
540               \vutinfth@person@firstassistant@error
541             }{%
542               & \vutinfth@person@secondassistant@fullname\\
543             }%
544           }{%
545             \ifdef{\vutinfth@person@thirdassistant@def}{%
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             }{%
556               \end{tabular}%
557             \end{minipage}%
558           }%
559         \ifgraduate{%
560           \begin{minipage}[t][1.6cm][t]{\textwidth}%
561             \vutinfth@normalsize
562             \vutinfth@polylingual@Advisor:
563             \vutinfth@person@advisor@fullname
564             \ifdef{\vutinfth@person@secondadvisor@def}{%
565               \\
566               \vutinfth@polylingual@Secondadvisor:
567               \vutinfth@person@secondadvisor@fullname
568             }{%
569               \end{minipage}\par%
570             }%
571           }%
572         }
```


`\vutinfth@signature@height` Set lengths of the signature blocks.
`\vutinfth@signature@width`
`\vutinfth@placedate@width` 572 `\newsetlength{\vutinfth@signature@height}{25mm}%`
573 `\newsetlength{\vutinfth@signature@width}{51mm}%`
574 `\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.

```

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

`\ReviewerBlock` Generates a block with the relevant signatures.

```

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

```

`\SignatureBlock` Generates a block with the relevant signatures.

```

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

```

664 }%

\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.

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

```

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

```

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
728 \ReviewerBlock\par
729 \SignatureBlock\par
730 \vspace*{1cm}%
731 \end{SFFont}%
732 \pagestyle{empty}%
733 \cleardoublepage
734 \vutinfth@restorelayout
735 \restoregeometry
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
744 \setlength{\parindent}{0pt}%
745 \setlength{\baselineskip}{13.6pt}%
746 \setlength{\parskip}{0pt plus 1pt}%
747 \begin{SFFont}{phv}%
748   \sffamily
749   \chapter*{\vutinfth@polylingual@StatementChapter}%
750   \vutinfth@person@author@fullname\par
751 % ^^A   \vutinfth@data@address\par
752   \vspace{1.2cm}%
753   {\normalfont\vutinfth@polylingual@Statement}\par
754   \vspace{1.2cm}%
755   \SignatureFields[y]{\vutinfth@person@author@name}{}%
756 \end{SFFont}%
757 \cleardoublepage
758 \vutinfth@restorelayout
759 % ^^A \restoregeometry
760 }%
```

`\addtitlepage` Generates the titlepage in given language.

```

761 \newcommand{\addtitlepage}[1]{%
762   \selectlanguage{#1}%
763   \AddTitlePage
764 }%
```

`\addstatementpage` Generates the statement page.

```

765 \newcommand{\addstatementpage}{%
766   \selectlanguage{naustrian}%
767   \ifundergraduate{\AddStatementPage}%
768   \ifgraduate{%
769     \ifdoctor{\AddStatementPage}%
770     \ifphd{%
771       \selectlanguage{english}%
772       \AddStatementPage
773     }%
774   }%
775 }%
```

`acknowledgements (env.)` Generates the English acknowledgement section.

```

776 \newenvironment{acknowledgements}{%
777   \selectlanguage{english}%
778   \chapter{Acknowledgements}%
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}%
784   \chapter*{Acknowledgements}%
785 }{%
786   \cleardoublepage
787 }%

```

danksagung (*env.*) Generates the German acknowledgement section.

```

788 \newenvironment{danksagung}{%
789   \selectlanguage{naustrian}%
790   \chapter{Danksagung}%
791 }{%
792   \cleardoublepage
793 }%

```

danksagung* (*env.*) Generates the German acknowledgement section without an entry in the table of contents.

```

794 \newenvironment{danksagung*}{%
795   \selectlanguage{naustrian}%
796   \chapter*{Danksagung}%
797 }{%
798   \cleardoublepage
799 }%

```

abstract (*env.*) Generates the English abstract.

```

800 \renewenvironment{abstract}{%
801   \selectlanguage{english}%
802   \chapter{Abstract}%
803 }{%
804   \cleardoublepage
805 }%

```

abstract* (*env.*) Generates the English abstract without an entry in the table of contents.

```

806 \newenvironment{abstract*}{%
807   \selectlanguage{english}%
808   \chapter*{Abstract}%
809 }{%
810   \cleardoublepage
811 }%

```

kurzfassung (*env.*) Generates the German abstract without an entry in the table of contents.

```

812 \newenvironment{kurzfassung}{%
813   \selectlanguage{naustrian}%
814   \chapter{Kurzfassung}%
815 }{%
816   \cleardoublepage
817 }%

```

`kurzfassung*` (*env.*) Generates the German abstract.

```
818 \newenvironment{kurzfassung*}{%
819   \selectlanguage{naustrian}%
820   \chapter*{Kurzfassung}%
821 }{%
822   \cleardoublepage
823 }%
```

5.3.4 Page Style

`vutinfth@pagestyle@default` Define the default page style of the thesis.

```
824 \makepagestyle{vutinfth@pagestyle@default}%
825 \makeevenfoot{vutinfth@pagestyle@default}{\thepage}{\thepage}%
826 \makeoddfoot{vutinfth@pagestyle@default}{\thepage}{\thepage}%
```

`\frontmatter` Apply the default page style to the thesis.

```
\mainmatter
\backmatter 827 \aliaspagestyle{chapter}{vutinfth@pagestyle@default}%
828 \aliaspagestyle{part}{vutinfth@pagestyle@default}%
829 \addto\frontmatter{\pagestyle{vutinfth@pagestyle@default}}%
830 \addto\mainmatter{\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 second advisor. Issue #4	19
v1.0		TextualData: Updated to support external reviewer data. Issue #4	19
General: Initial release version	1		
v1.1		#4	19
General: Added references to the GitLab environment	1	\ifdoctor: Added to support multiple dissertation types. Issue #4	15
v1.3		\ifphd: Added to support multiple dissertation types. Issue #4	15
General: Added support for a dissertation at the Vienna Phd School of Informatics. Issue #4	1	PolyLinguals: Added to support multiple dissertation types. Issue #4	19
\AddStatementPage: Updated to support multiple languages. Issue #4	28	\ReviewerBlock: Updated to support external reviewers. Issue #4	25
\addstatementpage: Updated to support english version. Issue #4	29	\setthesis: Altered to support multiple dissertation types. Issue #4	16
\AddTitlePage: Added check for subtitle existence before usage. Issue #1	27	\SignatureBlock: Updated to support multiple dissertation types. Issue #4	26
Updated to support PhD School mentioning and fixed the associated vertical overflow. Issue #4	27	\vutinfth@thesis@doctortype: Added to support multiple dissertation types. Issue #4	16
\AdvisorBlock: Updated to support second advisor. Issue			

\vutinfth@thesis@doctortype@doctor:	for dissertations.	1
Added to support multiple	\AdvisorBlock: Enabled second	
dissertation types. Issue #4 . .	advisor for dissertations.	24
\vutinfth@thesis@doctortype@phd:	PolyLinguals: Provided German	
Added to support multiple	term for second advisor.	19
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\vutinfth@thesis@phd: Added to	General: Removed address	
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