The vutinfth class*

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Abstract

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

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1 Introduction

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

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`$^{\text{P}}$, indicates such a command.

3.1.1 Textual Data

`\setregnumber`
`\settitle`
`\setsubtitle`
`\setcurriculum`
`\setfirstreviewerdata`
`\setsecondreviewerdata`

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

Command	Role	Type	Optional
`\setregnumber`	Registration number of the author	All	No
`\settitle`[P]	Title of the thesis	All	No
`\setsubtitle`[P]	Subtitle of the thesis	All	Yes
`\setcurriculum`[P]	Name of the curriculum	B, M	No

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

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

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

3.1.2 Persons

`\setauthor` `\setadvisor` `\setsecondadvisor` `\setfirstassistant` `\setsecondassistant` `\setthirdassistant` `\setfirstreviewer` `\setsecondreviewer`

All commands in this section are called with four mandatory arguments, e.g., as `\command{`⟨*pretitle*⟩`}{`⟨*name*⟩`}{`⟨*posttitle*⟩`}{`⟨*gender*⟩`}`, where ⟨*name*⟩ defines both the first name(s) and family name(s) of the person. A title that is placed before the name is assigned with ⟨*pretitle*⟩, while a trailing title is given with ⟨*posttitle*⟩. Both ⟨*pretitle*⟩ and ⟨*posttitle*⟩ 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 ⟨*gender*⟩ allows the use of gender-specific terms in languages that support them, e.g., German. The possible options for ⟨*gender*⟩ are `male` and `female` (see Section 3.1.4). The following persons can be set:

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

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

3.1.3 Dates

`\setdate`

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

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

3.1.4 List Data

All commands in this section are called with at least one madatory argument called ⟨*list*⟩, e.g., as `\command...{`⟨*list*⟩`}...`, where ⟨*list*⟩ 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
`\command{`⟨.⟩`}{`⟨.⟩`}{`⟨.⟩`}{`⟨*list*⟩`}`	`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
`\setthesis{`⟨*list*⟩`}`	`bachelor`	Specifies a bachelor's thesis.
	`master`	Specifies a master's thesis.
	`doctor`	Specifies a dissertation.

`\setmasterdegree`

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

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

`\setdoctordegree`

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

Command	Options	Description
`\setdoctordegree{`⟨*list*⟩`}`	`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 enroled 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
`\addtitlepage{`⟨*list*⟩`}`	`english`	Generates an English title page.
	`naustrian`	Generates a German title page.

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.
`acknowledgements*` (*env.*)

`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.
`danksagung*` (*env.*)

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

`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*`, to remove the table of content entry of this environment.
`kurzfassung*` (*env.*)

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*⟩`{`⟨*pretitle*⟩`}{`⟨*personname*⟩`}{`⟨*posttitle*⟩`}{`⟨*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
	`\vutinfth@person@`⟨*name*⟩`@def`
⟨*pretitle*⟩	`\vutinfth@person@`⟨*name*⟩`@pretitle`
⟨*personname*⟩	`\vutinfth@person@`⟨*name*⟩`@name`
⟨*posttitle*⟩	`\vutinfth@person@`⟨*name*⟩`@posttitle`
⟨*gender*⟩	`\vutinfth@person@`⟨*name*⟩`@gender`

The command `\vutinfth@person@`⟨*name*⟩`@def` is created to increase source code readability when verifying the existence of a specific person. Furthermore, the command `\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 by used by polylingual expressions. ⟨*lang*⟩ 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 `\CreatePolylingual[`⟨*expressions*⟩`]{`⟨*name*⟩`}`, it generates a command `\vutinfth@polylingual@`⟨*name*⟩ that selects the approriate expression based on the current language at the time of use. The argument ⟨*expressions*⟩ is a list of elements of the form ⟨$expr_i$⟩, where each element defines the expression for a valid language, e.g., ⟨$lang_i$⟩=⟨$text_i$⟩. ⟨$lang_i$⟩ 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.

```
\DeclareOption*{%
  \PassOptionsToClass{\CurrentOption}{memoir}%
}%
\ProcessOptions\relax
```

5.1.2 Loaded Class and Packages

The `vutinfth` class is based on the `memoir` class.

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

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

```
\RequirePackage[scaled]{helvet}%
\RequirePackage{lmodern}%
\RequirePackage{courier}%
\RequirePackage[T1]{fontenc}%
\RequirePackage[english,naustrian]{babel}%
\RequirePackage[useregional]{datetime2}%
\RequirePackage{geometry}%
\RequirePackage{calc}%
\RequirePackage{etoolbox}%
```

```
\RequirePackage{graphicx}%
\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.

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

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

```
\newcommand{\ifestrequal}[4]{%
  \begingroup
    \edef\vutinfth@tempa{{#1}}%
    \edef\vutinfth@tempb{{#2}}%
    \expandafter\expandafter\expandafter\ifstrequal
      \expandafter\vutinfth@tempa\vutinfth@tempb{#3}{#4}%
  \endgroup
}%
```

5.1.4 Fonts

`\vutinfth@HUGE` `\vutinfth@huge` `\vutinfth@LARGE` `\vutinfth@Large` `\vutinfth@large` `\vutinfth@normalsize` Initializes the font sizes.

```
\newcommand{\vutinfth@HUGE}{\fontsize{30}{34}\selectfont}%
\newcommand{\vutinfth@huge}{\fontsize{20}{23}\selectfont}%
\newcommand{\vutinfth@LARGE}{\fontsize{17}{22}\selectfont}%
\newcommand{\vutinfth@Large}{\fontsize{14}{18}\selectfont}%
\newcommand{\vutinfth@large}{\fontsize{12}{14.5}\selectfont}%
\newcommand{\vutinfth@normalsize}{\fontsize{11}{13.6}\selectfont}%
```

`SFFont` (*env.*) Selects the given font family as sans serif font.

```
\newenvironment{SFFont}[1]{%
```

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

```
  \begingroup
    \sffamily
    \global\let\vutinfth@f@family@tmp=\f@family
  \endgroup
  \renewcommand{\sfdefault}{#1}%
```

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

```
  \ifdefstrequal{\f@family}{\vutinfth@f@family@tmp}{\sffamily}{}%
}{%
```

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.

```
  \renewcommand{\sfdefault}{\vutinfth@f@family@tmp}%
}%
```

5.2 Data

5.2.1 Dates

`\setdate` Creates the internal storage for the signing date.

```
\newcommand{\setdate}[3]{%
  \DTMsavedate{vutinfth@date@signing}{#3-#2-#1}%
}%
```

5.2.2 Textual Data

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

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

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

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

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

```
\newcommand{\CreateData}[1]{%
  \@namedef{set#1}##1{%
    \vutinfth@def@data{#1}{##1}%
  }%
  \vutinfth@def@data@invalid{#1}{\string\set#1}%
}%
```

5.2.3 Persons

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

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

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

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

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

```
\newcommand{\vutinfth@def@person}[5]{%
  \@namedef{vutinfth@person@#1@def}{}%
  \@namedef{vutinfth@person@#1@pretitle}{#2}%
  \@namedef{vutinfth@person@#1@name}{#3}%
  \@namedef{vutinfth@person@#1@posttitle}{#4}%
  \ifdefstring{\vutinfth@person@male}{#5}{%
    \@namedef{vutinfth@person@#1@gender}{\vutinfth@person@male}%
  }{}%
  \ifdefstring{\vutinfth@person@female}{#5}{%
    \@namedef{vutinfth@person@#1@gender}{\vutinfth@person@female}%
  }{}%
```

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

```
  \ifstrempty{#3}{%
    \ifstrempty{#2}{%
      \@namedef{vutinfth@person@#1@fullname}{#4}%
    }{%
      \ifstrempty{#4}{%
        \@namedef{vutinfth@person@#1@fullname}{#2}%
      }{%
        \@namedef{vutinfth@person@#1@fullname}{#2 #4}%
      }%
    }%
  }{%
    \ifstrempty{#2}{%
      \ifstrempty{#4}{%
        \@namedef{vutinfth@person@#1@fullname}{#3}%
      }{%
        \@namedef{vutinfth@person@#1@fullname}{#3, #4}%
      }%
    }{%
      \ifstrempty{#4}{%
        \@namedef{vutinfth@person@#1@fullname}{#2 #3}%
      }{%
        \@namedef{vutinfth@person@#1@fullname}{#2 #3, #4}%
      }%
    }%
```

```
  }%
}%
```

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

```
\newcommand{\vutinfth@def@person@invalid}[2]{%
  \@namedef{vutinfth@person@#1@error}{%
    \ClassError{vutinfth}{No #2 issued}{Set #1 with #2.}%
  }%
  \@namedef{vutinfth@person@#1@name}{%
    \@nameuse{vutinfth@person@#1@error}}%
  \@namedef{vutinfth@person@#1@pretitle}{%
    \@nameuse{vutinfth@person@#1@error}}%
  \@namedef{vutinfth@person@#1@posttitle}{%
    \@nameuse{vutinfth@person@#1@error}}%
  \@namedef{vutinfth@person@#1@gender}{%
    \@nameuse{vutinfth@person@#1@error}}%
  \@namedef{vutinfth@person@#1@fullname}{%
    \@nameuse{vutinfth@person@#1@error}}%
}%
```

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

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

5.2.4 Polylingual Text

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

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

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

The key value is initialized as empty.

```
\@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.

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

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

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

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

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

Define the transfer function to permanent storage.

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

Call the transfer routine of the previously defined language.

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

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

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

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

```
      \ifdraftdoc{%
        [Draft: No `#1' text for polylingual `##1'.]%
      }\else{%
        \relax
      }\fi
    }{%
```

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

```
      \@nameuse{vutinfth@current@#1}%
    }%
  }%
}%
```

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

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

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

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

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

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

Define the selection function.

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

Call the selection routine of the previously defined language.

```
  \@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.

```
  \ifdefstring{\languagename}{#1}{\@nameuse{vutinfth@##1@#1}}{}%
}%
}%
```

`\CreatePolylingual` Creates the actual polylingual expressions.

```
\newcommand{\CreatePolylingual}[2][]{%
\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.

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

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

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

The mandatory argument `{`⟨*arg*⟩`}` is used to define the macro that returns the appropriate text for the currently active language.

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

5.2.5 Thesis Types

\vutinfth@thesis@basetype@undergraduate
\vutinfth@thesis@basetype@graduate

Two thesis categories are differentiated: `undergraduate` and `graduate`.

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

\ifundergraduate
\ifgraduate

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

```
\newcommand{\ifundergraduate}[1]{%
  \ifestrequal{\vutinfth@thesis@basetype}{%
    \vutinfth@thesis@basetype@undergraduate
  }{#1}{}%
}%
\newcommand{\ifgraduate}[1]{%
  \ifestrequal{\vutinfth@thesis@basetype}{%
    \vutinfth@thesis@basetype@graduate
  }{#1}{}%
}%
```

\vutinfth@thesis@basetype
\vutinfth@thesis@thesisname
\vutinfth@thesis@degreename

Initialize the thesis category, the type and the specific degree with error messages.

```
\newcommand{\vutinfth@thesis@basetype}{%
  \ClassError{vutinfth}{No \string\setthesis \space issued}{%
    Set thesis type with \string\setthesis.}%
}%
\newcommand{\vutinfth@polylingual@degreename}{%
  \ClassError{vutinfth}{No \string\setthesis \space issued}{%
    Set thesis type with \string\setthesis.}%
}%
\newcommand{\vutinfth@polylingual@thesisname}{%
  \ClassError{vutinfth}{No \string\setthesis \space issued}{%
    Set thesis type with \string\setthesis.}%
}%
```

\vutinfth@thesis@bachelor
\vutinfth@thesis@master
\vutinfth@thesis@doctor

Three main thesis types are differentiated: `bachelor`, `master`, and `doctor`.

```
\newcommand{\vutinfth@thesis@bachelor}{bachelor}%
\newcommand{\vutinfth@thesis@master}{master}%
\newcommand{\vutinfth@thesis@doctor}{doctor}%
```

\@setthesisname
\@setdegreename
\@setgendereddegreename

Internal convenience macros.

```
\newcommand{\@setthesisname}[1]{%
  \renewcommand{\vutinfth@polylingual@thesisname}{#1}}%
\newcommand{\@setdegreename}[1]{%
  \renewcommand{\vutinfth@polylingual@degreename}{#1}}%
\newcommand{\@setgendereddegreename}[2]{%
```

```
  \ifmale{author}{\@setdegreename{#1}}%
  \iffemale{author}{\@setdegreename{#2}}%
}%
```

`\setthesis` Sets the thesis type.

```
\newcommand{\setthesis}[1]{%
  \ifdefstring{\vutinfth@thesis@bachelor}{#1}{%
```

Initializes `bachelor` thesis type.

```
    \renewcommand{\vutinfth@thesis@basetype}{%
      \vutinfth@thesis@basetype@undergraduate}%
    \@setthesisname{\vutinfth@polylingual@BACHELORTHESIS}%
    \@setdegreename{\vutinfth@polylingual@Bdeg}%
  }{}%
  \ifdefstring{\vutinfth@thesis@master}{#1}{%
```

Initializes `master` thesis type.

```
    \renewcommand{\vutinfth@thesis@basetype}{%
      \vutinfth@thesis@basetype@undergraduate}%
    \@setthesisname{%
      \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
        Set masterdegree with \string\setmasterdegree.}%
    }%
    \@setdegreename{%
      \ClassError{vutinfth}{No \string\setmasterdegree \space issued}{%
        Set master degree with \string\setmasterdegree.}%
    }%
  }{}%
  \ifdefstring{\vutinfth@thesis@doctor}{#1}{%
```

Initializes `doctor` thesis type.

```
    \renewcommand{\vutinfth@thesis@basetype}{%
      \vutinfth@thesis@basetype@graduate}%
    \@setthesisname{\vutinfth@polylingual@DOCTORTHESIS}%
    \@setdegreename{%
      \ClassError{vutinfth}{No \string\setdoctordegree \space issued}{%
        Set doctor degree with \string\setdoctordegree.}%
    }%
  }{}%
}%
```

`\vutinfth@thesis@mdeg@dipl` `\vutinfth@thesis@mdeg@master` `\vutinfth@thesis@mdeg@rernat` `\vutinfth@thesis@mdeg@rersocoec` Four master degrees can be selected: `dipl.`, `master`, `rer.nat.`, and `rer.soc.oec.`.

```
\newcommand{\vutinfth@thesis@mdeg@dipl}{dipl.}%
\newcommand{\vutinfth@thesis@mdeg@master}{master}%
```

```
\newcommand{\vutinfth@thesis@mdeg@rernat}{rer.nat.}%
\newcommand{\vutinfth@thesis@mdeg@rersocoec}{rer.soc.oec.}%
```

`\setmasterdegree` Sets the specific master degree.

```
\newcommand{\setmasterdegree}[1]{%
  \ifdefstring{\vutinfth@thesis@mdeg@dipl}{#1}{%
    \@setthesisname{\vutinfth@polylingual@DIPLOMATHESIS}%
    \@setgendereddegreename{%
      \vutinfth@polylingual@MdegDiplMale
    }{%
      \vutinfth@polylingual@MdegDiplFemale
    }%
  }{}%
  \ifdefstring{\vutinfth@thesis@mdeg@master}{#1}{%
    \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
    \@setdegreename{\vutinfth@polylingual@MdegMaster}%
  }{}%
  \ifdefstring{\vutinfth@thesis@mdeg@rernat}{#1}{%
    \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
    \@setgendereddegreename{%
      \vutinfth@polylingual@MdegRerNatMale
    }{%
      \vutinfth@polylingual@MdegRerNatFemale
    }%
  }{}%
  \ifdefstring{\vutinfth@thesis@mdeg@rersocoec}{#1}{%
    \@setthesisname{\vutinfth@polylingual@MASTERTHESIS}%
    \@setgendereddegreename{%
      \vutinfth@polylingual@MdegRerSocOecMale
    }{%
      \vutinfth@polylingual@MdegRerSocOecFemale
    }%
  }{}%
}%
```

`\vutinfth@thesis@ddeg@rernat` `\vutinfth@thesis@ddeg@techn` `\vutinfth@thesis@ddeg@rersocoec` Three doctor degrees can be selected: `rer.nat.`, `techn.`, and `rer.soc.oec.`.

```
\newcommand{\vutinfth@thesis@ddeg@rernat}{rer.nat.}%
\newcommand{\vutinfth@thesis@ddeg@techn}{techn.}%
\newcommand{\vutinfth@thesis@ddeg@rersocoec}{rer.soc.oec.}%
```

`\setdoctordegree` Sets the specific doctor degree.

```
\newcommand{\setdoctordegree}[1]{%
  \ifdefstring{\vutinfth@thesis@ddeg@rernat}{#1}{%
    \@setgendereddegreename{%
      \vutinfth@polylingual@DdegRerNatMale
    }{%
      \vutinfth@polylingual@DdegRerNatFemale
```

```
    }%
  }{}%
  \ifdefstring{\vutinfth@thesis@ddeg@techn}{#1}{%
    \@setgendereddegreename{%
      \vutinfth@polylingual@DdegTechnMale
    }{%
      \vutinfth@polylingual@DdegTechnFemale
    }%
  }{}%
  \ifdefstring{\vutinfth@thesis@ddeg@rersocoec}{#1}{%
    \@setgendereddegreename{%
      \vutinfth@polylingual@DdegRerSocOecMale
    }{%
      \vutinfth@polylingual@DdegRerSocOecFemale
    }%
  }{}%
}%
```

5.2.6 Declarations

`Textual Data` Creates the required textual data entries.

```
% ^^A\CreateData{address}%
\CreateData{regnumber}%
\CreateData{firstreviewerdata}%
\CreateData{secondreviewerdata}%
```

`Persons` Creates the required person entries.

```
\CreatePerson{author}%
\CreatePerson{advisor}%
\CreatePerson{secondadvisor}%
\CreatePerson{firstassistant}%
\CreatePerson{secondassistant}%
\CreatePerson{thirdassistant}%
\CreatePerson{firstreviewer}%
\CreatePerson{secondreviewer}%
```

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

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

`PolyLinguals` Creates the polylingual expressions.

```
\CreatePolylingual[
  english=Advisor,
  naustrian=Betreuung]{Advisor}%
\CreatePolylingual[
```

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

Degree titles.

```
\CreatePolylingual[
  english=Bachelor of Science,
  naustrian=Bachelor of Science]{Bdeg}%
\CreatePolylingual[
  english=Master of Science,
  naustrian=Master of Science]{MdegMaster}%
\CreatePolylingual[
  english=Diplom-Ingenieur,
  naustrian=Diplom-Ingenieur]{MdegDiplMale}%
\CreatePolylingual[
  english=Diplom-Ingenieurin,
  naustrian=Diplom-Ingenieurin]{MdegDiplFemale}%
\CreatePolylingual[
  english=Magister der Naturwissenschaften,
  naustrian=Magister der Naturwissenschaften]{MdegRerNatMale}%
\CreatePolylingual[
  english=Magistra der Naturwissenschaften,
  naustrian=Magistra der Naturwissenschaften]{MdegRerNatFemale}%
\CreatePolylingual[
  english=Magister der Sozial- und Wirtschaftswissenschaften,
  naustrian=Magister der Sozial- und Wirtschaftswissenschaften]{%
  MdegRerSocOecMale}%
\CreatePolylingual[
  english=Magistra der Sozial- und Wirtschaftswissenschaften,
  naustrian=Magistra der Sozial- und Wirtschaftswissenschaften]{%
  MdegRerSocOecFemale}%
\CreatePolylingual[
  english=Doktor der Naturwissenschaften,
  naustrian=Doktor der Naturwissenschaften]{DdegRerNatMale}%
\CreatePolylingual[
  english=Doktorin der Naturwissenschaften,
  naustrian=Doktorin der Naturwissenschaften]{DdegRerNatFemale}%
\CreatePolylingual[
  english=Doktor der Technischen Wissenschaften,
  naustrian=Doktor der Technischen Wissenschaften]{DdegTechnMale}%
\CreatePolylingual[
  english=Doktorin der Technischen Wissenschaften,
  naustrian=Doktorin der Technischen Wissenschaften]{DdegTechnFemale}%
\CreatePolylingual[
  english=Doktor der Sozial- und Wirtschaftswissenschaften,
  naustrian=Doktor der Sozial- und Wirtschaftswissenschaften]{%
  DdegRerSocOecMale}%
\CreatePolylingual[
  english=Doktorin der Sozial- und Wirtschaftswissenschaften,
  naustrian=Doktorin der Sozial- und Wirtschaftswissenschaften]{%
  DdegRerSocOecFemale}%
```

Thesis types.

```
\CreatePolylingual[
  english=BACHELOR'S THESIS,
  naustrian=BACHELORARBEIT]{BACHELORTHESIS}%
\CreatePolylingual[
  english=MASTER'S THESIS,
  naustrian=MASTERARBEIT]{MASTERTHESIS}%
\CreatePolylingual[
  english=DIPLOMA THESIS,
  naustrian=DIPLOMARBEIT]{DIPLOMATHESIS}%
\CreatePolylingual[
  english=DISSERTATION,
  naustrian=DISSERTATION]{DOCTORTHESIS}%
```

`\settitle` Sets the title of the thesis.

```
\newcommand{\settitle}[2]{%
  \CreatePolylingual[english=#1,naustrian=#2]{Title}%
}%
```

`\setsubtitle` Sets the subtitle of the thesis.

```
\newcommand{\setsubtitle}[2]{%
  \CreatePolylingual[english=#1,naustrian=#2]{Subtitle}%
}%
```

`\setcurriculum` Sets the curriculum name.

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

5.3 Layout

5.3.1 Setup

`\vutinfth@squarebullet` Set internal convenience macros.

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

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

```
\newlength{\vutinfth@tmp@parindent}%
\newlength{\vutinfth@tmp@baselineskip}%
\newlength{\vutinfth@tmp@parskip}%
```

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

```
\newcommand{\vutinfth@savelayout}{%
  \setlength{\vutinfth@tmp@parindent}{\parindent}%
  \setlength{\vutinfth@tmp@baselineskip}{\baselineskip}%
  \setlength{\vutinfth@tmp@parskip}{\parskip}%
}%
\newcommand{\vutinfth@restorelayout}{%
  \setlength{\parindent}{\vutinfth@tmp@parindent}%
  \setlength{\baselineskip}{\vutinfth@tmp@baselineskip}%
  \setlength{\parskip}{\vutinfth@tmp@parskip}%
}%
```

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.

```
\newsetlength{\vutinfth@logo@offset@x}{10.6mm}%
\newsetlength{\vutinfth@logo@offset@y}{22mm}%
\newsetlength{\vutinfth@logo@width@safe}{74mm}%
\newsetlength{\vutinfth@logo@height}{11mm}%
\newsetlength{\vutinfth@header@width}{\paperwidth - \vutinfth@logo@offset@x - \vutinfth@logo@o
\newsetlength{\vutinfth@header@height}{\vutinfth@logo@height}%
\newsetlength{\vutinfth@header@separator}{-12mm}%
```

\vutinfth@header@titlepage Initialize header.

```
\newcommand{\vutinfth@header@titlepage}{%
  \setlength{\unitlength}{1mm}%
  \begin{picture}(74, 11)%
    {\includegraphics[height=\vutinfth@logo@height]{Logo-schwarz.pdf}}
  \end{picture}\hfill
}%
```

\vutinfth@footer@titlepage Initialize footer.

```
\newcommand{\vutinfth@footer@titlepage}{%
  \centering
  \begin{minipage}{\textwidth}%
    \centering\vutinfth@normalsize\sffamily
    Technische Universit\"{a}t Wien\\
    A-1040 Wien \vutinfth@squarebullet\space
    Karlsplatz 13 \vutinfth@squarebullet\space
    Tel. +43-1-58801-0 \vutinfth@squarebullet\space
    www.tuwien.at%
  \end{minipage}%
```

```
}%
```

`vutinfth@pagestyle@titlepage` Generate the title page style.

```
\makepagestyle{vutinfth@pagestyle@titlepage}%
\makerunningwidth{vutinfth@pagestyle@titlepage}[\textwidth]{%
  \vutinfth@header@width}%
\makeheadposition{vutinfth@pagestyle@titlepage}{%
  center}{center}{center}{center}%
\makeevenhead{vutinfth@pagestyle@titlepage}{}{%
  \vutinfth@header@titlepage}{}%
\makeoddhead{vutinfth@pagestyle@titlepage}{}{%
  \vutinfth@header@titlepage}{}%
\makefootrule{vutinfth@pagestyle@titlepage}{%
  \vutinfth@pagestyle@titlepagefootrunwidth}{0.5pt}{\footruleskip}%
\makeevenfoot{vutinfth@pagestyle@titlepage}{}{%
  \vutinfth@footer@titlepage}{}%
\makeoddfoot{vutinfth@pagestyle@titlepage}{}{%
  \vutinfth@footer@titlepage}{}%
```

Set style element specifications.

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

Helper functions.

```
\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.

```
\newcommand{\AdvisorBlock}{%
  \ifundergraduate{%
    \begin{minipage}[t][2.5cm][t]{\textwidth}%
      \vutinfth@normalsize
      \begin{tabular}{@{}l@{ }l}%
        \vutinfth@polylingual@Advisor: &
        \vutinfth@person@advisor@fullname\\
        \ifdef{\vutinfth@person@firstassistant@def}{%
          \vutinfth@polylingual@Assistance: &
          \vutinfth@person@firstassistant@fullname\\
        }{}%
        \ifdef{\vutinfth@person@secondassistant@def}{%
          \ifundef{\vutinfth@person@firstassistant@def}{%
            \vutinfth@person@firstassistant@error
          }{%
            & \vutinfth@person@secondassistant@fullname\\
          }%
        }{}%
```

```
        \ifdef{\vutinfth@person@thirdassistant@def}{%
          \ifundef{\vutinfth@person@firstassistant@def}{%
            \vutinfth@person@firstassistant@error
          }{%
            \ifundef{\vutinfth@person@secondassistant@def}{%
              \vutinfth@person@secondassistant@error
            }{%
              & \vutinfth@person@thirdassistant@fullname\\
           }%
         }%
       }{}%
      \end{tabular}%
    \end{minipage}%
  }%
  \ifgraduate{%
    \begin{minipage}[t][1.6cm][t]{\textwidth}%
      \vutinfth@normalsize
      \vutinfth@polylingual@Advisor:
      \vutinfth@person@advisor@fullname
      \ifdef{\vutinfth@person@secondadvisor@def}{%
        \\
        \vutinfth@polylingual@Secondadvisor:
        \vutinfth@person@secondadvisor@fullname
      }{}%
    \end{minipage}\par%
  }%
}%
```

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

```
\newsetlength{\vutinfth@signature@height}{25mm}%
\newsetlength{\vutinfth@signature@width}{51mm}%
\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.

```
\newcommand{\SignatureFields}[3][n]{%
  {\vutinfth@normalsize
    \ifstrequal{#1}{y}{%
      \begin{minipage}[b][\vutinfth@signature@height]{%
          \vutinfth@placedate@width
        }%
        \vutinfth@polylingual@Place,
        \DTMusedate{vutinfth@date@signing}\vspace*{\baselineskip}%
```

```
      \end{minipage}%
      \hfill
    }{}%
    \ifstrequal{#1}{n}{}{}%
    \ifstrequal{#1}{h}{%
      \hspace*{\vutinfth@placedate@width}%
      \hfill
    }{}%
    \ifstrempty{#2}{%
      \hspace*{\vutinfth@signature@width}%
      \hfill
    }{%
      \begin{minipage}[b][\vutinfth@signature@height]{%
          \vutinfth@signature@width
        }%
        \centering
        \rule{\vutinfth@signature@width}{0.5pt}\\
        #2%
      \end{minipage}%
      \hfill
    }%
    \ifstrempty{#3}{}{%
      \begin{minipage}[b][\vutinfth@signature@height]{%
          \vutinfth@signature@width
        }%
        \centering
        \rule{\vutinfth@signature@width}{0.5pt}\\
        #3%
      \end{minipage}%
    }%
  }%
}%
```

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

```
\newcommand{\ReviewerBlock}{%
  \ifgraduate{%
    {\vutinfth@normalsize
      \vutinfth@polylingual@Reviewed\\
      \SignatureFields[h]{%
        \vutinfth@person@firstreviewer@name
      }{%
        \vutinfth@person@secondreviewer@name
      }%
    }%
  }%
}%
```

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

```
\newcommand{\SignatureBlock}{%
  \ifundergraduate{%
    {\vutinfth@normalsize
      \SignatureFields[y]{%
        \vutinfth@person@author@name
      }{%
        \vutinfth@person@advisor@name
      }%
    }%
  }%
  \ifgraduate{%
    {\vutinfth@normalsize
      \SignatureFields[y]{}{%
        \vutinfth@person@author@name
      }%
    }%
  }%
}%
```

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

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

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

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

Save the current page layout lengths for later restoration.

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

Set title page text to helvetica.

```
  \begin{SFFont}{phv}%
    \sffamily
    {\centering
      \vspace*{1.2cm}\par
```

Title and subtitle are bottom aligned and grow upwards.

```
      \begin{minipage}[t][5cm][b]{\textwidth}%
        \centering
        \vutinfth@HUGE{\bfseries\vutinfth@polylingual@Title}\\
        \bigskip
        \vutinfth@huge{\bfseries
          \ifdef{\vutinfth@polylingual@Subtitle}{%
            \vutinfth@polylingual@Subtitle}{%
          }%
        }%
      \end{minipage}\par
      \vutinfth@bigskip\vutinfth@bigskip
      {\vutinfth@LARGE\vutinfth@polylingual@thesisname}\par
      \vutinfth@bigskip
      {\vutinfth@large\vutinfth@polylingual@submission}\par
      \vutinfth@bigskip
      \ifundergraduate{%
        {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
        \vutinfth@bigskip
        {\vutinfth@large\vutinfth@polylingual@in}\par
        \vutinfth@bigskip
        {\vutinfth@Large{\bfseries\vutinfth@polylingual@Curriculum}}\par
      }%
      \ifgraduate{%
        {\vutinfth@LARGE{\bfseries\vutinfth@polylingual@degreename}}\par
      }%
      \vutinfth@bigskip
      {\vutinfth@large\vutinfth@polylingual@by}\par
      \vutinfth@bigskip
      {\vutinfth@Large{\bfseries\vutinfth@person@author@fullname}}\par
      \smallskip
      {\vutinfth@large\vutinfth@polylingual@Registrationnumber\
      \vutinfth@data@regnumber}\par
    }%
    \vutinfth@bigskip\vutinfth@bigskip
    \begin{minipage}[b][1.6cm][c]{\textwidth}%
      \vutinfth@normalsize%
      \vutinfth@polylingual@faculty\par
      \vutinfth@polylingual@university
    \end{minipage}\par
    \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.

```
    \vfill
    \ReviewerBlock\par
    \SignatureBlock\par
    \vspace*{1cm}%
  \end{SFFont}%
  \pagestyle{empty}%
```

```
  \cleardoublepage
  \vutinfth@restorelayout
  \restoregeometry
}%
```

5.3.3 Front Matter Material

`\AddStatementPage` Generates the statement page.

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

Set the same page geometry as for the titlepages.

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

Save the current page layout lengths for later restoration.

```
  \vutinfth@savelayout
  \setlength{\parindent}{0pt}%
  \setlength{\baselineskip}{13.6pt}%
  \setlength{\parskip}{0pt plus 1pt}%
  \begin{SFFont}{phv}%
    \sffamily
      \chapter*{\vutinfth@polylingual@StatementChapter}%
      \vutinfth@person@author@fullname\par
% ^^A      \vutinfth@data@address\par
      \vspace{1.2cm}%
      {\normalfont\vutinfth@polylingual@Statement}\par
      \vspace{1.2cm}%
      \SignatureFields[y]{\vutinfth@person@author@name}{}%
  \end{SFFont}%
  \cleardoublepage
  \vutinfth@restorelayout
%^^A  \restoregeometry
}%
```

`\addtitlepage` Generates the titlepage in given language.

```
\newcommand{\addtitlepage}[1]{%
  \selectlanguage{#1}%
  \AddTitlePage
}%
```

`\addstatementpage` Generates the statement page.

```
\newcommand{\addstatementpage}{%
```

```
  \selectlanguage{naustrian}%
  \AddStatementPage
}%
```

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

```
\newenvironment{acknowledgements}{%
  \selectlanguage{english}%
  \chapter{Acknowledgements}%
}{%
  \cleardoublepage
}%
```

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

```
\newenvironment{acknowledgements*}{%
  \selectlanguage{english}%
  \chapter*{Acknowledgements}%
}{%
  \cleardoublepage
}%
```

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

```
\newenvironment{danksagung}{%
  \selectlanguage{naustrian}%
  \chapter{Danksagung}%
}{%
  \cleardoublepage
}%
```

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

```
\newenvironment{danksagung*}{%
  \selectlanguage{naustrian}%
  \chapter*{Danksagung}%
}{%
  \cleardoublepage
}%
```

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

```
\renewenvironment{abstract}{%
  \selectlanguage{english}%
  \chapter{Abstract}%
}{%
  \cleardoublepage
}%
```

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

```
\newenvironment{abstract*}{%
  \selectlanguage{english}%
  \chapter*{Abstract}%
}{%
  \cleardoublepage
}%
```

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

```
\newenvironment{kurzfassung}{%
  \selectlanguage{naustrian}%
  \chapter{Kurzfassung}%
}{%
  \cleardoublepage
}%
```

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

```
\newenvironment{kurzfassung*}{%
  \selectlanguage{naustrian}%
  \chapter*{Kurzfassung}%
}{%
  \cleardoublepage
}%
```

5.3.4 Page Style

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

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

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

```
\aliaspagestyle{chapter}{vutinfth@pagestyle@default}%
\aliaspagestyle{part}{vutinfth@pagestyle@default}%
\addto\frontmatter{\pagestyle{vutinfth@pagestyle@default}}%
\addto\mainmatter{\pagestyle{Ruled}}%
\addto\backmatter{\pagestyle{vutinfth@pagestyle@default}}%
```

6 Change History

v0.9

General: Pre-release version 1

v1.0

General: Initial release version . . . 1

v1.1
General: Added references to the GitLab environment 1
v1.3
General: Added support for a dissertation at the Vienna Phd School of Informatics. Issue #4 1
\AddStatementPage: Updated to support multiple languages. Issue #4 29
\addstatementpage: Updated to support English version. Issue #4 29
\AddTitlePage: Added check for subtitle existence before usage. Issue #1 27
Updated to support PhD School mentioning and fixed the associated vertical overflow. Issue #4 27
\AdvisorBlock: Updated to support second advisor. Issue #4 24
Persons: Updated to support second advisor. Issue Issue #4 19
Textual␣Data: Updated to support external reviewer data. Issue #4 19
PolyLinguals: Added to support multiple dissertation types. Issue #4 19
\ReviewerBlock: Updated to support external reviewers. Issue #4 26
\setthesis: Altered to support multiple dissertation types. Issue #4 17
\SignatureBlock: Updated to support multiple dissertation types. Issue #4 26
\vutinfth@thesis@doctor: Added to support multiple dissertation types. Issue #4 . . 16
v1.4
General: Added comma to separate posttitle and changed mainmatter pagestyle to 'Ruled'. 1
\mainmatter: Added 'Ruled' pagestyle. 31
\vutinfth@def@person: Added comma to separate posttitle. . 12
v1.5
General: Updated name of university to 'TU Wien'. 1
PolyLinguals: Updated name of university to 'TU Wien'. . . . 19
v1.6
General: Enabled second advisor for dissertations. 1
\AdvisorBlock: Enabled second advisor for dissertations. . . . 24
PolyLinguals: Provided German term for second advisor. . . . 19
v1.8
General: Removed address information. 1
\AddStatementPage: Removed address information. 29
Textual␣Data: Removed address information. 19
v1.9
General: Changed header graphics and unversity URL. 1
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v1.11
General: Updated name of faculty to 'TU Wien Informatics'. . . . 1
\setdate: Updated to datetime2 package. 11
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v1.12
General: Removed obsolete support for a dissertation at the Vienna PhD School of Informations. Issue #8 1
\addstatementpage: Removed support for English version. Issue #8 29

\AddTitlePage: Removed obsolete support for a dissertation at the Vienna PhD School of Informations. Issue #8 27
PolyLinguals: Removed support of multiple dissertation types. Issue #8 19
\ReviewerBlock: Removed support for external reviewers. Issue #8 26
\setthesis: Removed support for multiple dissertation types. Issue #8 17
\SignatureBlock: Removed support for multiple dissertation types. Issue #8 . . 26
\vutinfth@thesis@doctor: Removed support for multiple dissertation types. Issue #8 . . 16

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