

Vienna-Tech - Template Documentation

v.0.2.0

Example Usage

```
1  #import "@preview/vienna-tech:0.2.0": *
2
3  // Useing the configuration
4  #show: tuw-thesis.with(
5    header-title: "Instruktionen zur Abfassung der Bachelorarbeit",
6  )
7  #maketitle(
8    title: [Instruktionen zur Abfassung der Bachelorarbeit],
9    thesis-type: [Bachelorarbeit],
10   authors: (
11     (
12       name: "Vorname Nachname",
13       email: "email@email.com",
14       matrn: "12345678",
15     ),
16   ),
17 )
```

Styles of the Template

The following styles or functions can be used to set the formatting of the document.

- `appendix()`
- `tuw-thesis()`

appendix

Function to format the Appendix

Parameters

```
appendix(
  numbering: none str function,
  title: none str content,
  title-align: alignment,
  title-size: length,
  title-outline: bool,
  numbering-start: int,
  outline-exclude: array,
  content
) -> content
```

numbering `none` or `str` or `function`

The numbering of the Appendix

Default: `"A.1"`

title `none` or `str` or `content`

The title of the Appendix

Default: `none`

title-align `alignment`

The alignment of the title

Default: `center`

title-size `length`

The size of the title

Default: `none`

title-outline `bool`

Whether the title should be outlined

Default: `false`

numbering-start `int`

Starting the appendix after this number

Default: `0`

outline-exclude `array`

Exclude these heading levels from being outlined.

Default: `(2, 3)`

tuw-thesis

Thesis Template for Civil- und Environmentalengineers at TU Wien. This function gets your whole document as its body and formats it according to the TU Wien guidelines for theses.

Parameters

```
tuw-thesis(  
    heading-numbering: string content func ,  
    eq-numbering: string func ,  
    eq-chapterwise: bool ,  
    header-title: string content ,  
    header-start: integer ,  
    header-style: element ,  
    papersize: string ,  
    lang: string ,  
    font-size: length ,  
    main-font: string array ,  
    title-font: string array ,  
    raw-font: string array ,  
    paper-margins: dictionary lenght ,  
    fig-caption-width,  
    title-hyphenation,  
    body  
)
```

heading-numbering string or content or func

The numbering of the headings

Default: "1.1"

eq-numbering string or func

The numbering style of equations

Default: "(1.1)"

eq-chapterwise bool

Restart the equation counter after every level 1 chapter

Default: false

header-title string or content

The Titel or Text which should be displayed in the header.

Default: none

header-start integer

The starting page of the header.

Default: 1

header-style element

The style of the header (emph, strong, smallcaps, ...)

Default: emph

papersize string

The thesis papersize. Affects margins.

Default: "a4"

lang string

The language of the document.

Default: "de"

font-size length

The standard fontsize. All other fontsizes are in calculated from this value.

Default: 11pt

main-font string or array

The font of the whole document.

Default: "New Computer Modern"

title-font string or array

The font of the headings (of Sans Type)

Default: ("New Computer Modern Sans", "PT Sans", "DejaVu Sans")

raw-font string or array

The font of the raw text or codeblocks.

Default: ("DejaVu Sans Mono")

paper-margins dictionary or lenght

The margins of the paper

Default: (left: 2.5cm, right: 2.5cm, top: 2.5cm, bottom: 2.5cm)

Constructors of the Template

These constructors construct certain parts of the thesis.

- `abstract()`
- `maketitle()`

abstract

This function constructs the abstract, which is supposed to come directly after the frontmatter.

Parameters

```
abstract(  
  content,  
  font: string,  
  title: content string  
) -> content
```

font `string`

The font, which is only used for the heading of the abstract paragraph.

Default: title-font

title `content` or `string`

The title which the abstract paragraph should have.

Default: [Kurzfassung]

maketitle

This function constructs the the frontmatter of the thesis.

Parameters

```
maketitle(  
  title: content string,  
  thesis-type: content string,  
  authors: array,  
  date: content string,  
  date-prefix: content string,  
  fields: array,  
  field-prefixes: array,  
  metadata: bool,  
  title-font: string,  
  large-size: length,  
  font-size: length,  
  title-hyphenation: auto bool  
) -> content
```

title `content` or `string`

The Thesis Title is set here.

Default: `[]`

thesis-type `content` or `string`

The type of thesis. Bachelor-, Masters- or another kind of thesis.

Default: `none`

authors `array`

An array of authors. For each author, you can specify a name, matriculation number, email. The attributes can be modified via the `fields` and `field-prefixes` arguments.

Default: `none`

date `content` or `string`

Displays the date if it is not none.

Default: `datetime.today().display("[day] [month repr:long] [year]")`

date-prefix `content` or `string`

Sets the prefix that is shown before the date.

Default: `"Datum: "`

fields `array`

Defines the fields/keys, that the authors need to have.

Default: `("email", "matrn")`

field-prefixes `array`

Sets the prefixes, that are shown before their actual value, which is taken from the authors dictionary.

Default: `("", "Matr.Nr.: ")`

metadata `bool`

If true writes the title and the first authors name to the pdfs metadata.

Default: `true`

title-font `string`

Set the font of the title.

Default: title-font

large-size `length`

Size of the heading

Default: large-size

font-size `length`

Size of the authors text.

Default: normal-size

title-hyphenation `auto` or `bool`

Sets the hyphenation of the title. Is ideal for long titles.

Default: `auto`

Utilitys of the Template

A couple of global variables and function used throughout the document.

Variables:

- main-font
- title-font
- raw-font
- normal-size
- footnote-size
- small-size
- large-size
- fancy-typst
- fancy-latex

main-font `array`

The main font, which is used through out the document.

title-font `array`

The fonts, which are used for the headings (Sans type fonts).

raw-font `array`

The font used for all raw and code text elements

normal-size length

The size of the text. All other Textsizes are relative to this lenght.

footnote-size length

The size of footnotes

small-size length

The size of small text.

large-size length

The size of headings.

fancy-typst content

Fancy Representation for LaTeX

fancy-latex content

Fancy Representation for Typst