

DMI Basel Thesis Template for Typst

A modern thesis template for the University of Basel, Department of Mathematics and Computer Science, built with [Typst](https://typst.app).

Features

- **Fast compilation:** Near-instant preview updates
- **Clean design:** Based on the official LaTeX template
- **Multi-language:** Supports English and German
- **Draft mode:** Built-in TODO markers and draft indicators
- **Rich formatting:** Custom environments for definitions, theorems, algorithms
- **Flexible typography:** Full control over fonts, sizes, and weights

Quick Start

Using the Typst Package

```
=import "@preview/dmi-basilea-thesis:0.1.2": *

#show: thesis.with(
  title: "Your Thesis Title",
  author: "Your Name",
  supervisor: "Prof. Dr. Supervisor",
  examiner: "Prof. Dr. Examiner",
  thesis-type: "Bachelor Thesis", // or "Master Thesis"

  abstract: [
    Your abstract here...
  ],

  chapters: (
    include "introduction.typ",
    include "methodology.typ",
    include "conclusion.typ",
  ),

  bibliography-content: bibliography("references.bib"),
)
```

Local Development

1. Clone this repository
2. Import from the local path:

```
#import "src/main.typ": *
```

Configuration Options

Basic Settings

- title: Your thesis title
- author: Your name
- email: Your email address
- supervisor: Name of your supervisor
- examiner: Name of your examiner
- thesis-type: “Bachelor Thesis” or “Master Thesis”
- language: “en” or “de”
- date: Defaults to today

Optional Typography Control

Font Families

- `body-font`: Main text font (default: “Times New Roman”)
- `sans-font`: Headings font (default: “Arial”)
- `mono-font`: Code font (default: “Courier New”)

Font Sizes

- `body-size`: Main text size (default: 10pt)
- `mono-size`: Code text size (default: 10pt)
- `footnote-size`: Footnote size (default: 9pt)
- `header-size`: Page header size (default: 9pt)

Heading Sizes

- `chapter-number-size`: Chapter number size (default: 100pt)
- `chapter-title-size`: Chapter title size (default: 24pt)

Font Weights

- `chapter-number-weight`: Weight for chapter numbers (default: “bold”)
- `chapter-title-weight`: Weight for chapter titles (default: “bold”)

Sections

- `sections`: This is an array where each object defines the styling for a specific subsection level. The array index corresponds to the subsection level (e.g., index 0 for level 1, index 1 for level 2, and so on). Each object within the array contains the following properties:
 - `size`: The font size of the section
 - `weight`: The font weight
 - `space-before`: The spacing before the section start
 - `space-after`: The spacing after the section title
 - `style`: A custom styling function for the section
- `default-section`: This is a single dictionary that defines the default styling for any heading level not explicitly included in the sections array. It contains the same properties as the dictionaries within the sections array.

Advanced Styling

For complete control, you can provide custom styling functions:

```
#show: thesis.with(  
  // Rainbow gradient chapter titles  
  chapter-title-style: (content) => text(  
    size: 30pt,  
    fill: gradient.linear(..color.map.rainbow),  
    content  
  ),  
  
  // Custom body text  
  body-text-style: (body) => {  
    set text(font: "Minion Pro", size: 11pt)  
    body  
  },  
)
```

Available style functions:

- `body-text-style`: Override body text styling
- `mono-text-style`: Override code text styling
- `chapter-number-style`: Override chapter number styling
- `chapter-title-style`: Override chapter title styling

Compilation Modes

- `draft`: Show/hide TODO markers (default: true)
- `colored`: Enable/disable colors for definitions and theorems (default: false)

Template Features

TODO Markers (Draft Mode)

```
#todo[General TODO]
#todo-missing[Missing content]
#todo-check[Needs verification]
#todo-revise[Needs revision]
#todo-citation[Add citation]
#todo-language[Check language]
#todo-question[Open question]
#todo-note[Note to self]
```

Custom Environments

```
#definition(title: "Definition")[
  Your definition here...
]

#theorem(title: "Theorem")[
  Your theorem here...
]

#algorithm(caption: "My Algorithm")[
  Your algorithm here...
]
```

Contributing

Contributions are welcome! Please open an issue or submit a pull request on [GitHub](https://github.com/Nifalu/dmi-basilea-thesis).