

# elegant-polimi-thesis documentation

This chapter is the result of the documentation generated from the source code. Since it's not strictly needed to use the template – most of the functions that are to be used are straightforward – it's quite barebones.

The intended section order is as follows:

1. frontmatter
  - a. toc
  - b. list-of-figures
  - c. list-of-tables
  - d. nomenclature
2. mainmatter
3. backmatter
4. acknowledgements
5. appendix

The acknowledgements section can be moved in frontmatter, as one prefers (or as the advisor requests).

## User designated functions

keywords-banner .....	1
polimi-thesis .....	1
polimi-article-format-thesis .....	4
polimi-executive-summary .....	5
frontmatter .....	7
acknowledgements .....	7
mainmatter .....	7
appendix .....	7
backmatter .....	8
nomenclature .....	8

theorems-init .....	8
subfigure .....	9
bluepoli .....	9
toc .....	9
list-of-figures .....	9
list-of-tables .....	9
theorem .....	9
proposition .....	10
lemma .....	10
remark .....	10
proof .....	10

## keywords-banner

Draw the keywords banner.

### Parameters

```
keywords-banner(body: content) -> content
```

`body` `content`

Body of the banner.

## polimi-thesis

Main formatting function of the template.

## Parameters

```
polimi-thesis(  
    title: str,  
    author: str,  
    advisor: str,  
    coadvisor: str arr,  
    academic-year: str,  
    tutor: str,  
    cycle: str,  
    chair: str,  
    student-id: str,  
    course: str,  
    language: str,  
    logo: path,  
    frontispiece: str,  
    body  
) -> content
```

### **title** str

Title of the thesis.

Default: "Thesis Title"

### **author** str

Author of the thesis.

Default: "Name Surname"

### **advisor** str

Advisor of the thesis.

Default: "Advisor"

### **coadvisor** str or arr

Coadvisor(s) of the thesis.

Default: "Coadvisor"

### **academic-year** str

Academic year of the thesis. If empty, defaults to '2024-2025'.

Default: ""

**tutor** str

Tutor of the thesis.

Default: "Tutor"

**cycle** str

Cycle of the thesis.

Default: none

**chair** str

Chair of the thesis.

Default: none

**student-id** str

Student ID.

Default: "00000000"

**course** str

Student course.

Default: "Course Engineering"

**language** str

Language of the thesis.

Default: "en"

**logo** path

Path of the main logo of the thesis (default: "Scuola di Ingegneria Industriale e dell'Informazione").

Default: "img/logo\_ingeieria.svg"

**frontispiece** str

Frontispiece of the thesis. Can be either: phd, deib-phd, cs-eng-master or classical-master.

Default: "phd"

## polimi-article-format-thesis

The thesis article format styling function.

### Parameters

```
polimi-article-format-thesis(  
    title: str,  
    author: str,  
    advisor: str,  
    coadvisor: str or array,  
    academic-year: str,  
    student-id: str,  
    course: str,  
    language: str,  
    abstract: content,  
    keywords: str,  
    logo: path,  
    body  
) -> content
```

#### **title** str

Title of the thesis.

Default: "Thesis Title"

#### **author** str

Author of the thesis.

Default: "Name Surname"

#### **advisor** str

Advisor of the thesis.

Default: "Prof. Name Surname"

#### **coadvisor** str or array

Coadvisor(s) of the thesis.

Default: "Prof. Name Surname"

#### **academic-year** str

Academic year of the thesis. If empty, defaults to '2024-2025'.

Default: ""

**student-id** str

Student ID.

Default: "00000000"

**course** str

Student course.

Default: "Course Engineering"

**language** str

Language of the thesis.

Default: "en"

**abstract** content

Abstract.

Default: []

**keywords** str

Keywords, that appear below the abstract (and in the PDF metadata).

Default: ""

**logo** path

Logo of the thesis.

Default: "img/logo\_ingegneria.svg"

**polimi-executive-summary**

The executive summary styling function.

## Parameters

```
polimi-executive-summary(  
    title: str,  
    author: str,  
    advisor: str,  
    coadvisor: str array,  
    academic-year: str,  
    course: str,  
    language: str,  
    logo: path,  
    body  
) -> content
```

### **title** str

Title of the thesis.

Default: "Thesis Title"

### **author** str

Author of the thesis.

Default: "Name Surname"

### **advisor** str

Advisor of the thesis.

Default: "Prof. Name Surname"

### **coadvisor** str or array

Coadvisor(s) of the thesis.

Default: "Prof. Name Surname"

### **academic-year** str

Academic year of the thesis. If empty, defaults to '2024-2025'.

Default: ""

### **course** str

Student course.

Default: "Course Engineering"

**language** str

Language of the thesis.

Default: "en"

**logo** path

Logo of the thesis.

Default: "img/logo\_ingegeeria.svg"

## frontmatter

Frontmatter section. Similar to L<sup>A</sup>T<sub>E</sub>X's \frontmatter. It sets the page numbering to "i" and numbering: none for headings.

### Parameters

`frontmatter`(body) -> content

## acknowledgements

Acknowledgements section. It sets numbering: none for headings.

### Parameters

`acknowledgements`(body) -> content

## mainmatter

Mainmatter section. Similar to L<sup>A</sup>T<sub>E</sub>X's \mainmatter. It sets to page numbering to "1", heading numbering to "1.1" and resets the page counter.

### Parameters

`mainmatter`(body) -> content

## appendix

Appendix section. Similar to L<sup>A</sup>T<sub>E</sub>X's \appendix. It sets heading numbering to "A.1" and resets their counter.

### Parameters

`appendix`(body) -> content

## backmatter

Backmatter section. Similar to L<sup>A</sup>T<sub>E</sub>X's `\backmatter`. It sets heading numbering to `none`.

### Parameters

`backmatter`(body) -> `content`

## nomenclature

Displays a simple nomenclature with keys and values.

```
#nomenclature()  
    "Polimi": "Politecnico di Milano",  
    "CdL": "Corso di Laurea",  
    "CCS": "Consigli di Corsi di Studio",  
    "CFU": "Crediti Formativi  
Universitari",  
)
```

### Nomenclature

<i>POLIMI</i>	Politecnico di Milano
<i>CdL</i>	Corso di Laurea
<i>CCS</i>	Consigli di Corsi di Studio
<i>CFU</i>	Crediti Formativi Universitari

### Parameters

```
nomenclature(  
    dict: dictionary,  
    indented: bool  
) -> content
```

**dict** `dictionary`

Dictionary that hold keys and values.

**indented** `bool`

Whether to indent or not the nomenclature.

Default: `true`

## theorems-init

Utility function to initialize the theorem environments<sup>1</sup>:

- theorem
- proposition
- lemma
- remark

### Parameters

`theorems-init`(body) -> `content`

---

<sup>1</sup>Provided by great-theorems package.

## **subfigure**

Creates a new subfigure with the given arguments and an optional label. From `hallon` package.

### Parameters

```
subfigure(  
    ..args,  
    outlined: bool,  
    label: str,  
    body  
) -> content
```

#### **outlined**    `bool`

Whether to outline this subfigure or not.

Default: `false`

#### **label**    `str`

Unique label to reference this subfigure

Default: `none`

## **bluepoli**    `color`

Signature PoliMi colour (■), used in headings and labels.

## **toc**

Table of contents. It's custom built upon `outline()`.

## **list-of-figures**    `content`

List of figures. Similar to L<sup>A</sup>T<sub>E</sub>X's `\listoffigures`.

## **list-of-tables**    `content`

List of tables. Similar to L<sup>A</sup>T<sub>E</sub>X's `\listoftables`.

## **theorem**    `content`

Theorem block.

**proposition** content

Proposition block.

**lemma** content

Lemma block.

**remark** content

Remark block.

**proof** content

Proof block.