

# **Documentation of the Template**

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# 1. Template

The template functions are defined in `template/template.typ`. However, to make it easier to switch between a “long” report and a “short” assignment submission, we created two sub-versions `template/template-long.typ` and `template/template-short.typ` that use the same functions but with different default values. Therefore, all the functions mentioned below can be imported from any of these files with the same capabilities, except the default values will be better suited for the type of document you are writing.

Here are the functions available in `template/template.typ`:

- `init()`
- `cover-container()`
- `generic-container()`
- `pre-content-container()`
- `main-content-container()`
- `post-content-container()`
- `appendix-container()`

## **init**

Main function of the template that defines the overall style. This function is designed to be used in the main scope of the document, and to be called using `#show: init.with(...)`.

## **Parameters**

```
init(  
  body: content,  
  title: str content,  
  authors-names: array,  
  authors-data: dictionary,  
  text-font: str array,  
  math-font: str array,  
  headings-font: str array none,  
  font-size-multiplier: float,  
  base-font-size: length,  
  page-numbering: str function,  
  _documentation: bool  
) -> content
```

**body** content

The body of the document.

**title** str or content

The title of the document.

Default: ""

***authors-names***    array

The names of the authors.

Default: ()

***authors-data***    dictionary

The data of the authors. Can contain any number for (key, value) pairs. The key is a string and the value is an array of strings. The key is used as a label for the piece of information and the values correspond to the authors.

Default: ( : )

***text-font***    str or array

The font to use for the text.

Default: ("Source Serif 4", "Libertinus Serif")

***math-font***    str or array

The font to use for the math.

Default: ("STIX Two Math", "New Computer Modern Math")

***headings-font***    str or array or none

The font to use for the text in titles. If none, the text font will be used.

Default: none

***font-size-multiplier***    float

The font size multiplier to use for the text. This is used to scale the font size of the document.

Default: 1.0

***base-font-size***    length

The base font size to use for the text.

Default: 11pt

***page-numbering***    str or function

The default page numbering style to use.

Default: "1"

***\_documentation*** `bool`

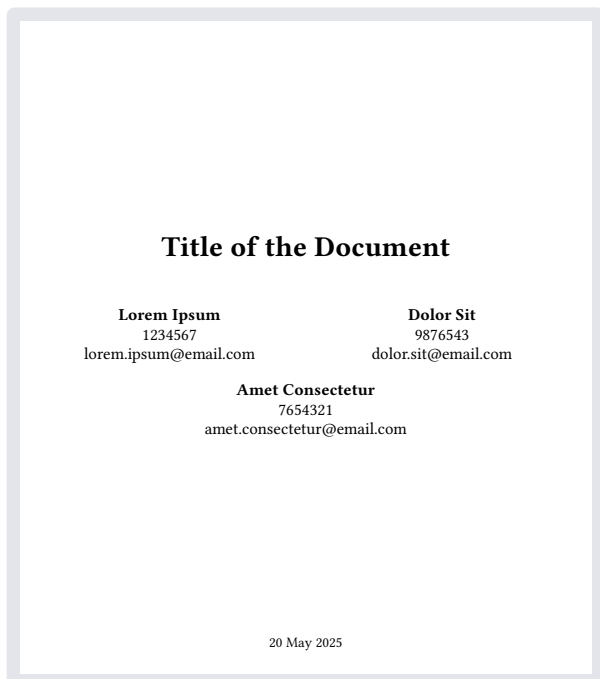
Special argument for the documentation.

Default: `false`

## cover-container

Cover page container. To use in combination with a cover page. Removes the header and footer of the page.

```
#[
  #show: cover-
  container.with(_documentation: true)
  #cover.cover(
    title: "Title of the Document",
    authors-names: ("Lorem Ipsum", "Dolor
  Sit", "Amet Consectetur"),
    authors-data: (
      "Student IDs": ("1234567",
"9876543", "7654321"),
      "Email": (
        "lorem.ipsum@email.com",
        "dolor.sit@email.com",
        "amet.consectetur@email.com",
      ),
    ),
    alignment: center,
    date: datetime.today(),
    _documentation: true,
  )
]
```



## Parameters

```
cover-container(
  body: content,
  full-page: bool,
  _documentation: bool
) -> content
```

***body*** `content`

The body of the document.

***full-page*** `bool`

Whether the cover page is a full page or not. If true, the page will be set to have no header or footer.

Default: `true`

***\_documentation*** `bool`

Special argument for the documentation.

Default: `false`

## generic-container

Generic container for a subset of the document. This function is designed to define the style of the document locally, using a show rule like this:

```
#[
  #show: generic-container.with(
    new-page: true,
    page-numbering: "1"
  )
  #include "../content/content.typ"
]
```

### Parameters

```
generic-container(
  body: content,
  new-page: bool,
  h1-new-page: bool,
  reset-page-numbering: bool,
  page-numbering: none str function,
  heading-numbering: none str function array,
  heading-supplement: none str content array
) -> content
```

***body*** `content`

The body of the document.

***new-page*** `bool`

Whether to start a new page at the beginning of the container.

Default: `true`

***h1-new-page*** `bool`

Whether to start a new page before each level 1 heading.

Default: `true`

***reset-page-numbering*** `bool`

Whether to reset the page numbering at the beginning of the container.

Default: `true`

***page-numbering*** `none` or `str` or `function`

The page numbering style to use.

Default: `none`

***heading-numbering*** `none` or `str` or `function` or `array`

The heading numbering style to use. If it is an array, it must have 6 elements (one for each heading level). Each element of the array must be one of the other allowed types.

Default: `none`

***heading-supplement*** `none` or `str` or `content` or `array`

The supplement to use for the headings. If it is an array, it must have 6 elements (one for each heading level). Each element of the array must be one of the other allowed types.

Default: `"Section"`

## pre-content-container

Container for the pre-content of the document. Pre-content is defined as the content after the cover page and before the main content (usually containing the preface, acknowledgements, abstract, table of contents, etc.). This function is designed to define the style of the document locally, using a show rule, like in *generic-container*.

### Parameters

```
pre-content-container(  
  body: content,  
  new-page: bool,  
  h1-new-page: bool,  
  reset-page-numbering: bool,  
  page-numbering: none str function,  
  heading-numbering: none str function array,  
  heading-supplement: none str content array  
) -> content
```

***body*** `content`

Refer to the *body argument in generic-container* for more details.

***new-page*** `bool`

Refer to the *new-page argument in generic-container* for more details.

Default: `true`

***h1-new-page*** `bool`

Refer to the *h1-new-page argument in generic-container* for more details.

Default: `true`

***reset-page-numbering*** `bool`

Refer to the *reset-page-numbering argument in generic-container* for more details.

Default: `true`

***page-numbering*** `none` or `str` or `function`

Refer to the *page-numbering argument in generic-container* for more details.

Default: `"i"`

***heading-numbering*** `none` or `str` or `function` or `array`

Refer to the *heading-numbering argument in generic-container* for more details.

Default: `none`

***heading-supplement*** `none` or `str` or `content` or `array`

Refer to the *heading-supplement argument in generic-container* for more details.

Default: `"Section"`

## main-content-container

Container for the main content of the document. Main content is defined as the core content, usually containing the chapters, sections, and subsections. This function is designed to define the style of the document locally, using a show rule, like in *generic-container*.



## Parameters

```
main-content-container(  
  body: content,  
  new-page: bool,  
  h1-new-page: bool,  
  reset-page-numbering: bool,  
  page-numbering: none | str | function,  
  heading-numbering: none | str | function | array,  
  heading-supplement: none | str | content | array  
) -> content
```

**body** content

Refer to the *body argument in generic-container* for more details.

**new-page** bool

Refer to the *new-page argument in generic-container* for more details.

Default: true

**h1-new-page** bool

Refer to the *h1-new-page argument in generic-container* for more details.

Default: true

**reset-page-numbering** bool

Refer to the *reset-page-numbering argument in generic-container* for more details.

Default: true

**page-numbering** none or str or function

Refer to the *page-numbering argument in generic-container* for more details.

Default: "1"

**heading-numbering** none or str or function or array

Refer to the *heading-numbering argument in generic-container* for more details.

Default: ("1.", "1.a.", "1.a.i.", none, none, none)

**heading-supplement** none or str or content or array

Refer to the *heading-supplement argument in generic-container* for more details.

Default: ("Chapter", "Section", "Subsection", none, none, none)

## post-content-container

Container for the post-content of the document. Post-content is defined as the content after the main content and before the appendix (usually containing the bibliography, index, etc.). This function is designed to define the style of the document locally, using a show rule, like in *generic-container*.

### Parameters

```
post-content-container(  
  body: content,  
  new-page: bool,  
  h1-new-page: bool,  
  reset-page-numbering: bool,  
  page-numbering: none str function,  
  heading-numbering: none str function array,  
  heading-supplement: none str content array  
) -> content
```

**body** content

Refer to the *body argument in generic-container* for more details.

**new-page** bool

Refer to the *new-page argument in generic-container* for more details.

Default: true

**h1-new-page** bool

Refer to the *h1-new-page argument in generic-container* for more details.

Default: true

**reset-page-numbering** bool

Refer to the *reset-page-numbering argument in generic-container* for more details.

Default: false

**page-numbering** none or str or function

Refer to the *page-numbering argument in generic-container* for more details.

Default: "1"

**heading-numbering** none or str or function or array

Refer to the *heading-numbering argument in generic-container* for more details.

Default: none

**heading-supplement** `none` or `str` or `content` or `array`

Refer to the *heading-supplement argument in generic-container* for more details.

Default: `"Section"`

## appendix-container

Container for the appendix of the document. Appendix is defined as a separate part at the end of the document that gives extra information. This function is designed to define the style of the document locally, using a show rule, like in *generic-container*.

### Parameters

```
appendix-container(  
  body: content,  
  new-page: bool,  
  h1-new-page: bool,  
  reset-page-numbering: bool,  
  page-numbering: none str function,  
  heading-numbering: none str function array,  
  heading-supplement: none str content array  
) -> content
```

**body** `content`

Refer to the *body argument in generic-container* for more details.

**new-page** `bool`

Refer to the *new-page argument in generic-container* for more details.

Default: `true`

**h1-new-page** `bool`

Refer to the *h1-new-page argument in generic-container* for more details.

Default: `true`

**reset-page-numbering** `bool`

Refer to the *reset-page-numbering argument in generic-container* for more details.

Default: `true`

***page-numbering*** `none` or `str` or `function`

Refer to the *page-numbering argument in generic-container* for more details.

Default: `numbly.numbly("A-{1:1}")`

***heading-numbering*** `none` or `str` or `function` or `array`

Refer to the *heading-numbering argument in generic-container* for more details.

Default: `numbly.numbly("Appendix {1:A}", "{1:A}.{2:1}.", "{1:A}.{2:1}.{3:a}.", none, none, none)`

***heading-supplement*** `none` or `str` or `content` or `array`

Refer to the *heading-supplement argument in generic-container* for more details.

Default: `(none, "Appendix", "Appendix", none, none, none)`

## 2. Cover Page

A simple cover page is defined in `template/cover.typ`. It is a simple function that takes the title, authors, and date as arguments, as well as some optional arguments to customize the layout.

Here are the functions available in `template/cover.typ`:

- `cover()`

### cover

Cover page template. Supports full page and non-full page formats. There are two versions of the cover page depending on the desired alignment.

```
#[
  #show: cover-
  container.with(_documentation: true)
  #for alignment in (left, center, right)
  {
    cover.cover(
      title: "Title of the Document",
      authors-names: ("Lorem Ipsum",
"Dolor Sit", "Amet Consectetur"),
      authors-data: (
        "Student IDs": ("1234567",
"9876543", "7654321"),
        "Email": (
          "lorem.ipsum@email.com",
          "dolor.sit@email.com",
          "amet.consectetur@email.com",
        ),
      ),
    ),
    full-page: false,
    alignment: alignment,
    date: datetime.today(),
    _documentation: true,
  )
  v(2cm, weak: true)
}
]
```

#### Title of the Document

20 May 2025

Name	Student IDs	Email
Lorem Ipsum	1234567	lorem.ipsum@email.com
Dolor Sit	9876543	dolor.sit@email.com
Amet Consectetur	7654321	amet.consectetur@email.com

#### Title of the Document

20 May 2025

<b>Lorem Ipsum</b> 1234567 lorem.ipsum@email.com	<b>Dolor Sit</b> 9876543 dolor.sit@email.com
<b>Amet Consectetur</b> 7654321 amet.consectetur@email.com	

#### Title of the Document

20 May 2025

Name	Student IDs	Email
Lorem Ipsum	1234567	lorem.ipsum@email.com
Dolor Sit	9876543	dolor.sit@email.com
Amet Consectetur	7654321	amet.consectetur@email.com

### Parameters

```
cover(
  title: str content,
  authors-names: str array,
  authors-data: dictionary,
  date: datetime,
  full-page: bool,
  alignment: alignment,
  _documentation: bool
) -> content
```

***title*** `str` or `content`

The title of the document.

Default: ""

***authors-names*** `str` or `array`

The names of the authors.

Default: ()

***authors-data*** `dictionary`

The data of the authors. Can contain any number for (key, value) pairs. The key is a string and the value is an array of strings. The key is used as a label for the piece of information and the values correspond to the authors.

Default: (:)

***date*** `datetime`

The date to be displayed on the cover page. If not provided, the current date is used.

Default: `datetime.today()`

***full-page*** `bool`

Whether to use the full page format or not. This only changes the vertical layout of the content.

Default: `true`

***alignment*** `alignment`

The alignment of the content on the page. Can be left, center, right, start, or end.

Default: left

***\_documentation*** `bool`

Special argument for the documentation.

Default: `false`

### 3. Styled Blocks

`other-tools/styled-blocks.typ` contains a set of functions to add colourful blocks of text to the document. The intended use is to highlight tasks or information useful to the authors in writing the document. Then, the blocks can be hidden or removed when the document is rendered, using the `render` argument like this at the beginning of the file:

```
#let block-todo = block-todo.with(render: false)
```

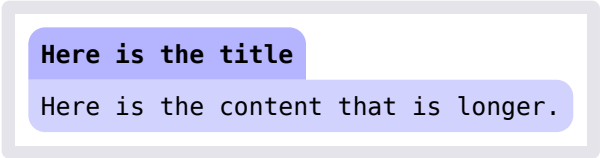
Here are the functions available in `other-tools/styled-blocks.typ`:

- `styled-block()`
- `block-todo()`
- `block-discussion()`

#### styled-block

Create a styled block with a title and content.

```
#styled-block()[Here is the title][Here is  
the content that is longer.]
```



#### Parameters

```
styled-block(  
  title: str content none ,  
  content: str content none ,  
  block-type: str content none ,  
  fill-title: color ,  
  fill-content: color ,  
  inset: length dictionary ,  
  radius: length ,  
  render: bool  
) -> content
```

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

The title of the block.

**content**    `str` or `content` or `none`

The content of the block.

**block-type**    `str` or `content` or `none`

The type of the block (e.g., “TODO”, “Discussion”), displayed below the title.

Default: `none`

***fill-title*** `color`

The colour of the title background.

Default: `rgb(180, 180, 255)`

***fill-content*** `color`

The colour of the content background.

Default: `rgb(210, 210, 255)`

***inset*** `length` or `dictionary`

The inset of the title and content blocks.

Default: (x: `6pt`, y: `8pt`)

***radius*** `length`

The radius of the title and content blocks.

Default: `8pt`

***render*** `bool`

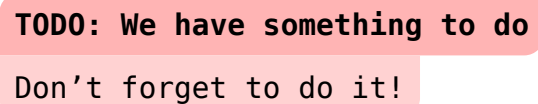
Whether to render the block.

Default: `true`

## block-todo

Create a styled block for TODOs.

```
#block-todo()[We have something to do]
[Don't forget to do it!]
```



**TODO: We have something to do**

Don't forget to do it!

### Parameters

```
block-todo(
  title: str content none,
  content: str content none,
  render: bool
) -> content
```



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

The title of the block.

**content**   `str` or `content` or `none`

The content of the block.

**render**   `bool`

Whether to render the block.

Default: `true`

## block-discussion

Create a styled block for discussions.

```
#block-discussion()[Add more
explanations?][- Author A: Maybe it would
be better...
- Author B: Yes, but I don't know...
- Author A: What about...]
```

**Discussion: Add more explanations?**

- Author A: Maybe it would be better...
- Author B: Yes, but I don't know...
- Author A: What about...

### Parameters

```
block-discussion(
  title: str content none,
  content: str content none,
  render: bool
) -> content
```

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

The title of the block.

**content**   `str` or `content` or `none`

The content of the block.

**render**   `bool`

Whether to render the block.

Default: `true`

## 4. Custom Style

`other-tools/custom-style.typ` contains a function to add custom styles to the document. These styles are not directly included in the template because they are not really standard.

Here are the functions available in `other-tools/custom-style.typ`:

- `custom-style()`

### custom-style

Define a custom style for figures, tables, and raw blocks. This function allows you to customize the appearance of figures, tables, and raw blocks in your document.

#### Parameters

```
custom-style(  
  body: content,  
  custom-figure-captions: bool,  
  custom-tables: bool,  
  raw-background: color  
) -> body
```

***body*** `content`

The body of the document

***custom-figure-captions*** `bool`

Whether to use custom figure captions.

Default: `true`

***custom-tables*** `bool`

Whether to use custom tables.

Default: `true`

***raw-background*** `color`

The background colour for raw blocks. Set to `none` to disable the custom styling for raw blocks.

Default: `luma(220, 60%)`