# **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.

```
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

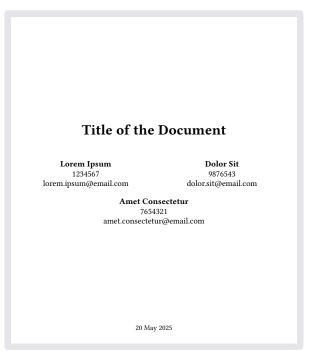
Special argument for the documentation.

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

The page numbering style to use.

Default: none

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 <u>new-page argument in generic-container</u> for more details.

Default: true

#### h1-new-page bool

Refer to the <u>h1-new-page argument in generic-container</u> for more details.

Default: true

### reset-page-numbering bool

Refer to the <u>reset-page-numbering argument in generic-container</u> 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"

#### 

Refer to the <u>heading-numbering argument in generic-container</u> for more details.

Default: none

#### 

Refer to the <u>heading-supplement argument in generic-container</u> 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 <u>new-page argument in generic-container</u> for more details.

Default: true

#### h1-new-page bool

Refer to the <u>h1-new-page argument in generic-container</u> for more details.

Default: true

#### reset-page-numbering bool

Refer to the <u>reset-page-numbering argument in generic-container</u> for more details.

Default: true

#### page-numbering none or str or function

Refer to the <u>page-numbering argument in generic-container</u> for more details.

Default: "1"

Refer to the <u>heading-numbering argument in generic-container</u> for more details.

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

Refer to the <u>heading-supplement argument in generic-container</u> 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*.

```
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 <u>body argument in generic-container</u> for more details.
new-page
             bool
Refer to the <u>new-page argument in generic-container</u> for more details.
Default: true
h1-new-page
Refer to the <u>h1-new-page argument in generic-container</u> for more details.
Default: true
reset-page-numbering
                           bool
Refer to the <u>reset-page-numbering argument in generic-container</u> 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"
Refer to the <u>heading-numbering argument in generic-container</u> for more details.
Default: none
```

```
heading-supplement
                           none or str or content or array
Refer to the <u>heading-supplement argument in generic-container</u> 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 <u>body argument in generic-container</u> for more details.
  new-page
                bool
  Refer to the <u>new-page argument in generic-container</u> for more details.
  Default: true
  h1-new-page
                    bool
  Refer to the <u>h1-new-page argument in generic-container</u> for more details.
  Default: true
  reset-page-numbering
                              bool
  Refer to the <u>reset-page-numbering argument in generic-container</u> for more details.
  Default: true
```

#### 

Refer to the <u>page-numbering argument in generic-container</u> for more details.

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

Refer to the <u>heading-numbering argument in generic-container</u> for more details.

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

Refer to the <u>heading-supplement argument in generic-container</u> 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
                Student IDs Email
Lorem Ipsum
                1234567
Dolor Sit
                9876543
                            dolor.sit@email.com
Amet Consectetur 7654321
                            amet.consectetur@email.com
                        Title of the Document
                                   20 May 2025
              Lorem Ipsum
1234567
                                                          9876543
          lorem.ipsum@email.com
                                                    dolor.sit@email.com
                                Amet Consectetur
                            amet.consectetur@email.com
                                                 Title of the Document
                                                                       20 May 2025
                                     Name Student IDs
                                                                           Email
                                Lorem Ipsum
                                                             lorem.ipsum@email.com
                                                 7654321 amet.consectetur@email.com
                            Amet Consectetur
```

```
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.]
```

```
Here is the title
Here is the content that is longer.
```

```
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.
              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!

```
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**

Default: true

```
block-discussion(
  title: str content none,
  content: str content none,
  render: bool
) -> content
      str or content or none
title
The title of the block.
content
         str or content or none
The content of the block.
render
          bool
Whether to render the block.
```

# 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**

Default: luma(220, 60%)

```
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
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.
```