Documentation of the Template

Conventions, functions and attributes

by

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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 subversions:

- template/template-long.typ for long reports
- template/template-short.typ for short reports

Both 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,
 subtitle: str content,
 authors-names: array str content,
 authors-data: dictionary,
 text-font: str array,
 math-font: str array,
 raw-font: str array,
 headings-font: str array none,
 font-size-multiplier: float,
 base-font-size: length,
 header: 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: ""

subtitle str or content

The subtitle of the document.

Default: ""

authors-names array or str or content

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")

raw-font str or array

The font to use for the raw text.

Default: ("Source Code Pro", "Libertinus Mono")

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

header length

The content of the header.

```
Default: (left: "[title]", center: none, right: "[subtitle]")
```

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.

```
"amet.consectetur@email.com",
    ),
    ),
    date: datetime.today(),
    _documentation: true,
)
```

Title of the Document Subtitle by Lorem Ipsum Dolor Sit 9876543 dolor.sit@email.com Amet Consectetur 7654321 amet.consectetur@email.com

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 <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: "i"

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

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"

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)

heading-supplement none or str or content or array

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*.

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 <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: false

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

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

Default: "1"

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

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

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

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)
```

heading-supplement none or str or content or array

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.

```
#Г
  #show: template.cover-
container.with(_documentation: true)
  #cover.cover(
    title: "Title of the Document",
    subtitle: "Subtitle",
    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: true,
    date: datetime.today(),
    _documentation: true,
]
```

```
Title of the Document

Subtitle

by

Lorem Ipsum Dolor Sit
1234567 9876543
lorem.ipsum@email.com dolor.sit@email.com

Amet Consectetur
7654321
amet.consectetur@email.com
```

```
cover(
  title: str content,
  subtitle: str content none,
  authors-names: str array,
  authors-data: dictionary,
  date: datetime str content none,
  full-page: bool,
  logos: array none,
  other-content: content none,
  _documentation: bool
) -> content
```

title str or content

The title of the document.

Default: ""

subtitle str or content or none

The subtitle of the document.

Default: none

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 or str or content or none

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

logos array or none

Font sizes to use for the different elements (title, subtitle, authors, date)

Default: none

other-content content or none

Free content added after the date

Default: none

_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.
```

```
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!

```
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...

```
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%)