Rubber Article - Template Documentation

v.0.5.0

Contents

Styling functions 2
appendix 2
article 3
Constructor functions 7
abstract 7
ctable 8
fig-outline 9
maketitle 10
shortcap 11
tab-outline 11
Utility functions 13
balance 13
vspace 13

This template is a replication/implementation of the classic `article` LaTeX class in typst. It is designed to be used for writing articles, papers, and other documents. It is a good starting point for people transitioning from LaTeX to typst or students starting with academic writing.

Example Usage

```typst
#import "@preview/rubber-article:0.5.0": *
#show: article
#maketitle(
  title: "The Title of the Paper",
  authors: ("Authors Name",),
  date: datetime.today().display("[day].[month].[year]"),
)
```

It shall be noted here, that this is not an exact copy, but rather a very close reinterpretation, since typst is quite different to work with. Additionally some features, that have not been present in the original `article` class, have been added to this template. For example the `header-line` has been added, which in LaTeX would have needed the package `fancyhdr`. Also worth a mention is that the default paper size in Typst is the A4 format, while in the original the US Letter format is used.

In order to recreate the original `article` class, use the following settings.

```typst
#show: article.with(
  page-margins: 1.75in,
  page-paper: "us-letter",
)
```

Styling functions

These functions are used to style certain elements of the document. They are usually called with a `#show` statement. They do not output any content, but rather modify the appearance of the document.

- appendix()
- article()

appendix

Function to format the Appendix. This function is intended to be used after the document has been styled with the `article` function.

Example usage:

```typst
#show: article
// A lot of content goes here...

#show: appendix.with(
  title: "Appendix",
  title-align: center,
)
```

Parameters

```
appendix(
  title: none str content,
  title-align: alignment,
  title-size: length,
  numbering: none str function,
  numbering-start: int,
  content
) -> content
```

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

The title of the Appendix

Default: `none`

title-align `alignment`

The alignment of the title

Default: `center`

title-size `length`

The size of the title

Default: `none`

numbering `none` or `str` or `function`

The numbering of the Appendix

Default: `"A.1"`

numbering-start `int`

Startting the appendix after this number

Default: `0`

article

A Template recreating the look of the classic Article Class.

Example usage:

```typst
#show: article.with(
  lang: "de",
)
```

This will format the document with the specified options. For more styling options, explore the following parameters.

Parameters

```
article(
  cols: none int,
  eq-chapterwise: bool,
  eq-numbering: str none,
  fig-caption-width: relative,
  header-alternating: bool,
  header-display: bool,
  header-first-page: int float,
  header-line-stroke: length,
  header-title: str content,
  heading-numbering: none str function,
  lang: str,
  list-bullet-indent: length,
  list-numbered-indent: length,
  page-margins: auto relative dictionary,
  page-numbering-align: alignment,
  page-numbering: none str function,
  page-paper: str,
  par-first-line-indent: length,
  par-justify: bool,
  par-spacing: length,
  text-font: str,
  text-size: length,
  content: content
) -> content
```

cols `none` or `int`

Set the number of columns, that the document should have.

Default: `none`

eq-chapterwise `bool`

Chapterwise numbering of equations.

Default: `false`

eq-numbering `str` or `none`

Set the equation numbering style.

Default: `none`

fig-caption-width `relative`

Set the width of the figure captions.

Default: `75%`

header-alternating `bool`

Set if the default header should be alternating.

Default: `true`

header-display `bool`

Set if the default header should be used.

Default: `false`

header-first-page `int` or `float`

Set the first page of the header.

Default: `1`

header-line-stroke `length`

Set the width of the headerline.

Default: `.65pt`

header-title `str` or `content`

Set the Header Title

Default: `none`

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

Set the heading numbering style.

Default: `"1.1"`

lang `str`

Set the language of the document.

Default: `"de"`

list-bullet-indent `length`

Set the List indentation.

Default: `1.5em`

list-numbered-indent `length`

Set the Enum indentation.

Default: `1.5em`

page-margins `auto` or `relative` or `dictionary`

Set the margins of the document.

Default: `(left: 25mm, right: 25mm, top: 30mm, bottom: 30mm)`

page-numbering-align `alignment`

Set the page numbering alignment.

Default: `center`

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

Set the page numbering style.

Default: `"1"`

page-paper `str`

Set the paper size.

Default: `"a4"`

par-first-line-indent `length`

Set the indentation of the first line of paragraphs.

Default: `1.8em`

par-justify `bool`

Set if document should be justified.

Default: `true`

par-spacing `length`

Set the spacing between paragraphs.

Default: `0.55em`

text-font `str`

Set the text font.

Default: `"New Computer Modern"`

text-size `length`

Set the text size. Headings are adjusted automatically.

Default: `10pt`

Constructor functions

These functions are used to create certain elements of the document. They can be called with certain arguments and output some content.

- abstract()
- ctable()
- fig-outline()
- maketitle()
- shortcap()
- tab-outline()

abstract

This function will display an abstract section with a title and content.

Parameters

```
abstract(
  title: string content,
  alignment: alignment,
  outlined: bool,
  numbering: numbering,
  width: length,
  content: string content
)
```

title `string` or `content`

The title of the abstract.

Default: `"Abstract"`

alignment `alignment`

The alignment of the abstract.

Default: `left`

outlined `bool`

If the heading should be outlined.

Default: `true`

numbering `numbering`

The numbering of the heading.

Default: `none`

width `length`

The width of the abstract block.

Default: `auto`

content `string` or `content`

The content of the abstract.

ctable

This function will display a custom table. The table uses the `pillar` package under the hood to interact with the table in a similar manner as in Latex. This means, that the columns and vertical lines can be defined with a string. Furthermore, the table automatically adds 3 horizontal lines.

Example usage:

```typst
#ctable(
  cols:"l|cr",
  [A], [B], [C],
 ..range(1,16).map(str),
)
```

Parameters

```
ctable(
  ..data,
  cols: string,
  stroke: length,
  middle-stroke: length,
  vertical-stroke: length,
  header-rows: int
) -> content
```

cols `string`

A string that defines the columns and vertical lines of the table.

Default: `"ccc"`

stroke `length`

The linesytle of the table, especially the top and bottom horizontal lines.

Default: `.75pt`

middle-stroke `length`

The linesytle of the middle horizontal line.

Default: `.6pt`

vertical-stroke `length`

The linesytle of the vertical lines.

Default: `.6pt`

header-rows `int`

The number of header rows.

Default: `1`

fig-outline

This function is a wrapper of the `outline` function and allows for an easy way to create the table of figures.

Example usage:

```typst
#fig-outline()
```

Typst

Parameters

```
fig-outline(
  title: string content,
  target: label selector location function,
  ..args
) -> content
```

title `string` or `content`

The title of the table of figures.

Default: `"List of Figures"`

target `label` or `selector` or `location` or `function`

The Target of the table of figures.

Default: `figure.where(kind: image)`

..args

Additional optional arguments to the outline function.

maketitle

This function will display the frontmatter of the document. This includes the title, authors, and date.

Example usage:

```typst
#maketitle(
  title: "The Title of the Paper",
  authors: ("Authors Name",),
  date: "2025-01-01",
)
```

Parameters

```
maketitle(
  title: string content ,
  authors: array ,
  date: string content datetime ,
  metadata: bool ,
  spacing: dict
) -> content
```

title `string` or `content`

The title of the document.

Default: `""`

authors `array`

The authors of the document.

Default: `()`

date `string` or `content` or `datetime`

The date of the document.

Default: `none`

metadata `bool`

Use title and author information for the document metadata. This does not work when `article` sets columns before!!!

Default: `false`

spacing `dict`

The vertical spacing above and below the titleblock.

Default: `(above: 60pt, below: 20pt)`

shortcap

This function will help you to provide a long caption to a figure, but a short caption to the outline.

Example usage:

```typst
#figure(
  rect(),
  caption: shortcap("Short caption", "Long caption"),
)
```

Parameters

```
shortcap(
  short: string content,
  long: string content
) -> content
```

short `string` or `content`

The short caption of the figure.

long `string` or `content`

The long caption of the figure.

tab-outline

This function is a wrapper of the `outline` function and allows for an easy way to create the list of tables.

Example usage:

```typst
#tab-outline()
```

Parameters

```
tab-outline(
  title: string content,
  target: label selector location function,
  ..args
) -> content
```

title `string` or `content`

The title of the table of figures.

Default: `"List of Tables"`

target `label` or `selector` or `location` or `function`

The Target of the table of figures.

Default: `figure.where(kind: table)`

..args

Additional optional arguments to the outline function.

Utility functions

These functions can be used to perform certain tasks in the document. These functions will help you style certain elements of the document, where otherwise complicated functions would be needed.

- balance()

Variables

- vspace

balance

Balance the content of columns. Have a multicolumn layout with almost equal height columns. Credits go to: https://github.com/typst/typst/issues/466

Example usage:

```typst
#balance(columns(n)[#lorem(80)])
```

Parameters

```
balance(content) -> content
```

vspace `space`

A vertical space, which is weakly enforced. This is useful to add space between paragraphs if the default spacing is not sufficient and the same space should be used throughout the document. By using this function instead of regular `v(xem)` you can ensure the same distance throughout the document.

```typst
#lorem(50) // Some paragraph
#vspace // Add some space
#lorem(50) // Next paragraph
```

If the space is not as large as you want it to be, you can set the value in the beginning of the document with `#let vspace = v(1.5em)`