pubmatter

A typst library for parsing and showing publication frontmatter



¹Curvenote Inc., ²Executable Books

Abstract

Utilities for loading and working with authors, affiliations, abstracts, keywords and other frontmatter information common in scientific publications.

Our goal is to introduce standardized ways of working with this content to expose metadata to scientific publishers who are interested in using typst in a standardized way. The specification for this pubmatter is based on MyST Markdown and Quarto, and can load their YAML files directly.

Keywords typst package, open-science, standards

Loading Frontmatter

The frontmatter can contain all information for an article, including title, authors, affiliations, abstracts and keywords. These are then normalized into a standardized format that can be used with a number of show functions like show-authors. For example, we might have a YAML file that looks like this:

```
author: Rowan Cockett
date: 2024/01/26
```

You can load that file with yaml, and pass it to the load function:

```
#let fm = pubmatter.load(yaml("pubmatter.yml"))
```

This will give you a normalized data-structure that can be used with the show functions for showing various parts of a document.

You can also use a dictionary directly:

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Normalized Frontmatter Object

The frontmatter object has the following normalized structure:

```
title: content
subtitle: content
short-title: string
                             # alias: running-title, running-head
# Authors Array
# simple string provided for author is turned into ((name: string),)
authors:
                 # alias: author
  - name: string
   url: string
                             # alias: website, homepage
   email: string
   phone: string
   fax: string
                             # alias: ORCID
   orcid: string
   note: string
   corresponding: boolean # default: `true` when email set
   equal-contributor: boolean # alias: equalContributor, equal_contributor
   deceased: boolean
   roles: string[]
                            # must be a contributor role
                           # must be a co.
# alias: affiliation
   affiliations:
     - id: string
       index: number
# Affiliations Array
                           # alias: affiliation
affiliations:
                            # simple string is turned into (name: string)
 - string
 id: string
   index: number
   name: string
   institution: string
                             # use either name or institution
# Other publication metadata
open-access: boolean
doi: string
                             # must be only the ID, not the full URL
date: datetime
                             # validates from 'YYYY-MM-DD' if a string
citation: content
# Abstracts Array
# content is turned into ((title: "Abstract", content: string),)
abstracts:
                             # alias: abstract
 title: content
   content: content
```

Typst Package | January 26, 2024 2 of 11 Note that you will usually write the affiliations directly in line, in the following example, we can see that the output is a normalized affiliation object whtat is linked by the id of the affiliation (just the name if it is a string!).

```
#let fm = load((
  authors: (
   (
     name: "Rowan Cockett",
     affiliations: "Curvenote Inc.",
   ),
   (
     name: "Steve Purves",
     affiliations: ("Executable Books", "Curvenote Inc."),
   ),
 ),
))
#raw(lang:"yaml", yaml.encode(fm))
  authors:
  - name: Rowan Cockett
   affiliations:
    - id: Curvenote Inc.
     index: 1
  - name: Steve Purves
   affiliations:
    - id: Executable Books
      index: 2
    - id: Curvenote Inc.
     index: 1
  affiliations:
  - name: Curvenote Inc.
    id: Curvenote Inc.
    index: 1
  - name: Executable Books
   id: Executable Books
   index: 2
  date: 'datetime(year: 2024, month: 1, day: 26)'
  citation: Cockett & Purves, 2024
```

API Documentation

pubmatter

- doi-link()
- email-link()
- github-link()
- open-access-link()
- orcid-link()
- show-abstract-block()
- show-abstracts()
- show-affiliations()
- show-author-block()
- show-authors()
- show-keywords()
- show-page-footer()
- show-page-header()
- show-spaced-content()
- show-title()
- show-title-block()

doi-link

Create a DOI link

```
#doi-link(doi: "10.1190/tle35080703.1")
  https://doi.org/10.1190/tle35080703.1
```

Parameters

```
doi-link(doi: str) -> content
```

```
doi
```

Only include the DOI identifier, not the URL

Default: none

email-link

Create a mailto link with an email icon

```
#email-link(email: "rowan@curvenote.com")
```

Parameters

```
email-link(email: str) -> content
```

```
email
       str
Email as a string
Default: none
```

github-link

Create a link to a GitHub profile with the GitHub icon.

```
#github-link(github: "rowanc1")
  ()
```

```
github-link(github: str) -> content
```

```
github
         str
GitHub username (no @)
```

Default: none

open-access-link

Create a link to Wikipedia with an OpenAccess icon.

```
#open-access-link()
```

Parameters

```
open-access-link() -> content
```

orcid-link

Create a ORCID link with an ORCID logo

```
#orcid-link(orcid: "0000-0002-7859-8394")
```

Parameters

```
orcid-link(orcid: str)-> content
```

```
orcid
```

Use an ORCID identifier with no URL, e.g. 0000-0000-0000-0000

Default: none

show-abstract-block

Show abstract-block

Typst Package | January 26, 2024 5 of 11 #show-abstract-block(fm)

Abstract

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Keywords typst package, open-science, standards

Parameters

show-abstract-block(fm: fm) -> content

fm fm

The frontmatter object

show-abstracts

Show abstracts

#show-abstracts(fm)

Abstract

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Parameters

 $show-abstracts(fm: \ \texttt{fm} \) \ \texttt{->} \ \boxed{\texttt{content}}$

fm fm

The frontmatter object

show-affiliations

Show affiliations

#show-affiliations(affiliations)

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```
show-affiliations(
size: length,
 fill: color,
affiliations: fm array
) -> content
size length
```

Size of the affiliations text

Default: 8pt

```
fill color
```

Color of of the affiliations text

Default: gray.darken(50%)

```
affiliations
               fm or array
```

The frontmatter object or affiliations directly

show-author-block

Show author block

```
#show-author-block(fm)
  Rowan Cockett¹,2 (1) ♠ 🖼
   <sup>1</sup>Curvenote Inc., <sup>2</sup>Executable Books
```

Parameters

```
show-author-block(fm: fm ) -> content
```

The frontmatter object

show-authors

Show authors

```
#show-authors(authors)
```

Rowan Cockett¹,2 (D) ♥

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```
show-authors(
size: length,
 weight: weight,
show-affiliations: {\color{red}\textbf{boolean}}\,,
show-orcid: boolean,
show-email: boolean,
show-github: boolean,
authors: fm array
) -> content
size length
Size of the author text
Default: 10pt
weight
           weight
Weight of the author text
Default: "semibold"
show-affiliations
                       boolean
Show affiliations text
Default: true
show-orcid
                boolean
Show orcid logo
Default: true
show-email
                 boolean
Show email logo
Default: true
show-github
                 boolean
Show github logo
Default: true
```

show-keywords

authors

fm or array

The frontmatter object or authors directly

Show keywords

```
#show-keywords(fm)
  Keywords typst package, open-science, standards
```

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```
show-keywords(fm: fm ) -> content
```

fm fm

The frontmatter object

show-page-footer

Show page footer

```
#show-page-footer(fm)
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                                                                                           9 of 11
```

Parameters

```
show-page-footer(fm: fm) -> content
```

fm fm

The frontmatter object

show-page-header

Show page header

```
#show-page-header(theme: (font: "Noto Sans"), fm)
                                                                        pubmatter | Cockett, 2024
```

Parameters

```
show-page-header(
 theme: theme,
fm: fm
) -> content
```

theme theme

The theme object, There is a bug in the first page state update, so theme must be passed directly. See

Default: THEME

fm fm

The frontmatter object

show-spaced-content

Create a spaced content array separated with a spacer.

The default spacer is | , and undefined elements are removed.

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```
#show-spaced-content(("Hello", "There"))
  Hello
            There
```

```
show-spaced-content(
spacer: content,
content: array
) -> content
```

```
spacer
         content
How to join the content
Default: text(fill: gray)[#h(8pt) | #h(8pt)]
```

```
content
          array
```

The various things to going together

show-title

Show title

#show-title(fm)

pubmatter

A typst library for parsing and showing publication frontmatter

Parameters

```
show-title(fm: fm ) -> content
```

```
fm
```

The frontmatter object

show-title-block

Show title block

```
#show-title-block(fm)
```

pubmatter

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¹Curvenote Inc., ²Executable Books

Parameters

```
show-title-block(fm: fm ) -> content
```

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 \mathbf{fm} fm

The frontmatter object

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