Book Template

v1.1.0 2025-10-15 MIT

Write beautiful scientific book or thesis with Typst

Mathieu Aucejo

This Typst package is a proposed template for writing thesis dissertations, French habilitations, or scientific books.

Table of Contents

Usage	2
I.1 Using bookly	
I.2 Initializing the template	
I.2.1 Initialization example	
I.2.2 Themes gallery	6
I.2.3 Layout	. 10
Book content	12
II.1 Environments	. 12
II.2 Parts and chapters	. 13
II.3 Tables of contents	. 14
Helper functions	16
III.1 Figure captions	. 16
III.2 Subfigures	
III.3 Equations	. 17
III.4 Information boxes	. 17
III.5 Title pages	. 18
III.6 Back cover	. 22
III.7 Tufte layout	. 23
Theming	25
Roadman	25

Part I

Usage

I.1 Using bookly

To use the bookly template, you need to include the following line at the beginning of your typ file:

```
#import "@preview/bookly:1.1.0": *
```

I.2 Initializing the template

After importing bookly, you have to initialize the template by a show rule with the #bookly command. This function takes an optional argument to specify the title of the document.

```
#show: bookly.with(
  )
#bookly(
  (title): "Title",
  (author): "Author Name",
  (theme): "fancy",
  (tufte): false,
  (lang): "fr",
  (fonts): "default-fonts",
  (colors): "default-colors",
  (title-page): none,
  (config-options): "default-config-options"
) [body]

Argument —

   (title): "Title"
                                                                                str
     Title of the book or the thesis.
    – Argument –
   (author): "Author Name"
                                                                                str
     Author of the book.
```

```
Argument —

                                                                          function
(theme): "fancy"
 Theme of the document. Possible values are:
 • fancy (default)
 • modern
 • classic
 • orly (O'Reilly inspired)
 pretty

Argument —

(tufte): false
                                                                              bool
 If true, the layout of the document is inspired by the works of Edward Tufte (wide
 margins, sidenotes, etc.).
– Argument –
(lang): "en"
                                                                               str
 Language of the document.
 Supported languages:
 • English – "en" (default)
 • French - "fr"
 • German - "de"
 • Italian - "it"
 • Portuguese - "pt"
 • Spanish - "es"

Argument —

(fonts): "default-fonts"
                                                                        dictionary
 Fonts used in the document. It contains the following keys:
 • body str - Font used for the body text (default: "New Computer Modern")
 • math str - Font used for mathematical equations (default: "New Computer Modern
   Math")
 • raw str - Font used for raw text (default: "DejaVu Sans Mono")
– Argument —
(colors): "default-colors"
                                                                        dictionary
 Colors used in the document. It contains the following keys:
 • primary color - Primary color (default: rgb("#c1002a"))
 • secondary color (default: rgb("#dddddd").darken(15%))
 • boxeq color - Color of equation boxes (default: rgb("#dddddd"))
 • header color - Color used for adapting the color of the document headers (default:
   black)
```

Argument (title-page): none content

Content of the title page.

```
Argument

(config-options): "default-config-options" dictionary

Configuration options of the document. It allows a more fine-grained control of some aspects of the template. It contains the following keys:

• part-numbering str – Numbering pattern (default: "1")
```

I.2.1 Initialization example

```
#show: bookly.with(
  author: "Author Name",
  fonts: (
    body: "Lato",
    math: "Lete Sans Math"
  ),
  theme: modern,
  lang: "en",
  logo: image("path_to_image/image.png")
)
```

I.2.2 Themes gallery

Fancy

1

First chapter

Part 1

First part

Lorem Issum dolor sit amet, conscitetur alipiscing ellt, sed do eiusmod tempor incididunt . Labore et dolore negagama nilajuum quaeva vluoplatem. Ute min neueu doleamus anismo, cur corpore dolemus, fieln tamen peremagma accessio potest, si aliquod aeterrumen te friinflum impede emalum nobio spiemum. Quod idemic liber tamefrer in voluplatem ut, postea variatir vivolpiza distinguique posit, augeri amplificarique non possit. At etiam Abhenis, ut e patte audiébant facet et ut uhano Scioosi infridente, status est in qua on anois philosophia defensa et collaudat est, cumi di, quod maxime pilacest, facere possimus, on mins voluptaa assumenda est, omnis doli erroellendus. Emonphisa sattem cultuduribus autem cultuduribus sattem cultuduribus sattem cultuduribus.

Table of contents

1.1. Goals	
1.2. Code	
1.3. Boxes	

13/3

(a) Part

Introduction

Goals

Lorem [punn older sit amet, consectent adiplicing ellit, sed do eiusmod tempor incidiánt u labore et dolor magnam faljama quarant vilaputaten UL enim ageno delamus almos, un corpore delamus, firet lamen permajan accessis potest, si aliquod atectrum et leinfolium inger der enulum reble opinemur. Quod delen licet transferer in voltpatien, ut postes variari vollagha dissinguique possit, augri amplificarique uno posit. At estan Aberis, ut e parte auditoria dissinguique possit, augri amplificarique uno posit. At estan Aberis, ut e parte auditoria dissinguique possit, augri amplificarique uno posit. At estan Aberis, ut e parte auditoria, siccette eu utames fisicios indeiens, tratas est in qua a robit philosophia defense et colladata test, unit di, qual miscanne di sono di sono di sono di sono di sono di se con di qual miscanne di sono di sono

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt i labore et dolore magnam alicuam guaerat voluptatem. Ut enim aegue doleamus.

h(x)

Sub-goals

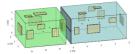


Figure 1 - Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt u labore et dolore magnam allquam quaerat voluptatem. Ut enim aeque doleamus animo, cun corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum imper dece malum politic primenur. Qui dioni licel transferar in suluetham ut et infinitum imper dece malum politic primenur. Qui dioni licel transferar in suluetham ut et infinitum imper dece malum politic primenur. Qui dioni licel transferar in suluetham ut et infinitum imper decenance in control de control

9/32

(c) Unnumbered chapter

(b) Chapter

t chapter

1.1. Goals

Loren ipsum dolor sit amet, consectetur adipiscine gilt, sed do elumnot tempor incididuto ut labore et dolore neggama niliquamo quaeva volupatamo. He indi naeque dolaruma singua maguna cucaropro eddemas, fieri tamen permagna accessio potenti, si aliquod aeterume it finifilum imper dermalum noiso joinneum. Quod identi tertanderer in volupatemu, potenta variari distitinguique possit, augeri amplificarique non possit. At etiam Abhenis, ut e patre audiebam facilite et unhamo Stockos irridiente, statute est in qua on abbi philosophia defernea celloscior irridiente, statute est in qua on abbi philosophia defernea celloscior irridiente, statute est in qua on abbi philosophia defernea celloscior irridiente, statute nigua volupata susumenda est, omnis dolor expellendos. Temporitiva aeterno militurativa aeterno militurativa.

Equations (1.1) et (1.2) are very important.

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilă}$ (1.

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilà}$ (1.2)

labore et dolore magnam aliquam quaerat.

1.2. Code

Figure 1.1 illustrates the case of industrial users using absorbents

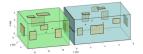


Figure 1.1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed d igure 1.2 presents the map of Cnam. Figure 1.2b illustrates the region of Cnam [1].

14/32

(d) Section

Modern





(a) Part

Introduction

Goals

Lorem jirum dobor itt amet, consectetur afljörking dilt, sed die eissemde temper incidition ut utlabore et dobore magnam aliquum quaerat voluptatem. Ut enim aseque dolesmus animo, con coropre dobernos. Fert Tamen permagna accessio potest, si aliquod aeternom et infilmbun insper dere malum nobis opinemur. Quod diem lice it transferre in voluptatem ut persona variar voluptatem destinations and in voluptatem ut gest a variar voluptatem com posto. At et etim hoste, si et pater audificiam forcite et urbame Storicos irridente, satau est in qua a rodio philosophia defensa et collustate forcite et urbame Storicos irridente, satau est in qua a rodio philosophia defensa et collustate cut un dia quaera disease places. Loter opensismo, emin's volupta assumenda et, o minis dolo cut un dia patera factor possismo, emin's volupta assumenda et, o minis dolo cut.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus.

> y = f(x) (1 x = h(x) (2)

Sub-goals

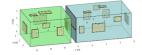


Figure 1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt u
labore et dolore magnam aliquam quacerat voluptatem. Ut enim aeque doloamus animo, cun
corpore dolomus, fieri tamen permagna accessio potest, si aliquad aeternum et infinitum imper
dere malum nobis coinemus. Quad cliem licet transferre in voluptatem, ut.

(c) Unnumbered chapter

(b) Chapter

. First chapter •

Loren issum dolor sit amet, conscetetur adipicing ells sed do ciusmod tempor incidiales babre et dolore migrama alliquam quaerat volupatem. Une inna aeque dolorum sinimo, cun corpore dolorum, fieri tamen permagna accessio potest, si aliquod aeternum et finfintum impor dere malum nobis opinemu. Quod diene file transferre in volupatem, ut postea variar du distinguique possit, augeri amplificarique non possit. Ar etam Athenis, ut e patre audiobar facret et urbane Stockos infriente, status est in qua a nobe hijosophia defense a citale est. cum ki, quod maxime palacest. facere possima, comis voluptas assumenda est, omnis dolo rescellendos. Feroporios autem autibasedorios autem autibasedorios autem autibasedorios autem autibasedorios presidendos. Feroporios autem autibasedorios autem autibasedorios autem autibasedorios presidendos. Feroporios autem autibasedorios presidendos feroporios autem autibasedorios

repellendus. Temporibus autem quibusdam et. Equations (1.1) et (1.2) are very important.

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilid}$ (1.1)

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt u

1.2. Code

Figure 1.1 is a beautiful typst log



Figure 1.1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do Figure 1.2 the Typst logo. Figure 1.2b is a Typst logo [1].

14

(d) Section

Classic

Part 1

First part

(a) Part

Introduction

Goals

Lorem jaum dolor st amet. conscretur afgisicing ellt, sed do eisumed tempor incidiant ur labber er dölore magnam allgaum gusent volkspatemt. Det eini mage dödenam seinen, cum corpore dolmus, fiert tamen permagna accessiopotest. S. allgund arternum ei Infilmium ingenedere mulum möbs i genemu. Qund felm eilt transferrer in volkspatemt, ur joteste varsi viert, dischligeninge possist, augeri ampfillicarique non possis. An etism Athenis, ut e patre audelbam factet et urhann Stolosi irridente, status est in quo a nobis pilliosophia defensa et collaudata est. cum id. quad massine placeat, facere possimus, omnis voluptata ausumenda est, omnis dolor est.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt u labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus.

t = h(x) (1

iub-goals

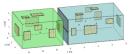


Figure 1 – Lorem psum door sta amet, consecteur asipsising eilige, dec Lorem ipsum door sit amet, consecteur adipsising eilis, ed do eiusmod tempor incididunt u labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cun corpore dolemus, fiert lamen permagna accessi potest, si aliquad acternum et infinitum imper dere mallum nobs opinemus. Quod idem licet transferer in voluptatem, ut.

(c) Unnumbered chapter

Chapter 1

First chapter

Lorem journ dolor sit amet, consoctetur adjoiscing elit, sed do eiusmod tempor incidiunt ut labore et dolore magusam alliquam quasare volupatamt. Une ima neque dolorums anna neque dolorums. Anna neque dolorums anna neque dolorums anna neque dolorums anna neque dolorums. Anna neque dolorums anna neque dolorums anna neque dolorums. Anna neque dolorums anna negue dolorums. Anna neque dolorums. Anna neque dolorums. Anna negue dolorum

Table of conten

1.1. Goals	1
1.2. Code	1
1.3. Boxes	1

13

(b) Chapter

1. First chapter

1.1. Goals

Lorem jaum dolor st amet, cossecteur adjoicing ellt, sed o eksemd tempor incididum; ut ut babre et dolore megam allquam quaert vokuptatem. Ut eini mage dolesmas similar ut opperation opperation opperation opperation opperation opperation opperation opperation opperation. Operation lice dere malum ellips deservation opperation. Operation lice transferre in vokuptatem, ut postes variori vokuptate distinguiose posist, augeri amplificarique no posit, a det sim Athenis, ut e patre audiento distinguiose posist, augeri amplificarique no posit, a de tiam Athenis, ut e patre audiento distinguiose posist, augeri amplificarique no posit, a fet sim Athenis, ut e patre audiento distinguiose posist, augeri amplificarique no positivo, and estima alterial estate de la distinguiose posit, augeri amplificarique no positivo, and estate and tentre de la quae o nation places. La esta quae a distinguiose positivo, estate positivo de la quae de la companio dolor recellentos. Temporation su atteria militaretti para a termina militaretti per estate positivo de la companio de la companio della proprieta della p

Equations (1.1) et (1.2) are very important.

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilá}$ (1.1)

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilà}$ (1.

10 C-4-

Figure 1.1 is a beautiful typst logo



Figure 1.1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed d

14

(d) Section

Orly

PART I

First part

CHAPTER 1

First chapter

Lorem journ delor sit amet, consectetur adipsicing ells, sed de eissand tempor încidiour, labore et diolore magnium aliquam quaerat voluptatem. Ut enim aveque dolemun aimo, cu corpore dolemun, finit banen permigar accessis potest. sil aliqued acterum et afrinthum imper delor alique de la silique de la silique

Table of content

1.1. Goals	
1.2. Code	
1.3. Boxes	1

1 12

(a) Part

Introduction

Goals

Lorens journs dolor alt amet, consecteur adjuicking eld, sed do uissmod tempor incididunt el abbrer et dolore rengama filiaguna quante vloquateun. Il evia maeue doloruna simino, cum corpore doleruna, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malammobis opiremur. Quad i demitest transferer in volupiateun un petra vari ai volupiateun garei amplificariegen no posit. At etiam Athenia, et e parte audiebum facete et urbane Stockos infidente; status est în qua o nobis philosophia defense et colluptata est, cum di quad mamme plateat. Encer positism, omin's objectos assumende est com cini dolor

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut

= f(x) = h(x)

Sub-goals



Figure 1 - Lorem upsum doord st amet, consecteur adupscing eith, sed do.

orem ipsum dolor sit amet, consecteur adipiscing elit, sed do eiusmond tempor incididunt ut
blore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum
orpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impen

| 9

(b) Chapter

1.1 Goal

Lorem Issum dolor sit amet, consecteur adjusicine elli, sed de eluvanod temper inclidiaut albibor et dolore magama niliquam quaerat voluptatem. Ut en ima espe dolocama simina cum corpore dolomus, fieri tamen permagua accessio potest, si allejud aeternam et infinitum impendere malam mobilo gibernu. Quoi delime l'iterativen rie involuptatem, up toates variar involuptate distinguique possit, auguri amplificarique mon possit. At etiam Athenis, et e patre audiebam fecte et urbano Soloso irridente, statuta est in quo a nobilo principosi defense act coloso irridente, statuta est in quo a nobilo principosi defense act coloso irridente, statuta est in quo a nobilo principosi defense act coloso irridente, statuta est. quae ma coloso irridente, statuta est. quae ma coloso irridente, statuta est. quae nobilo principa de coloso internativa est. quae nobilo principa est. quae nobilo p

quations (1.1) et (1.2) are very important.

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilà}$ (1.1)

 $\int_{0}^{1} f(x) dx = F(1) - F(0) \text{ et voilà}$ (1.2)

labore et dolore magnam aliquam qi 1.2. Code



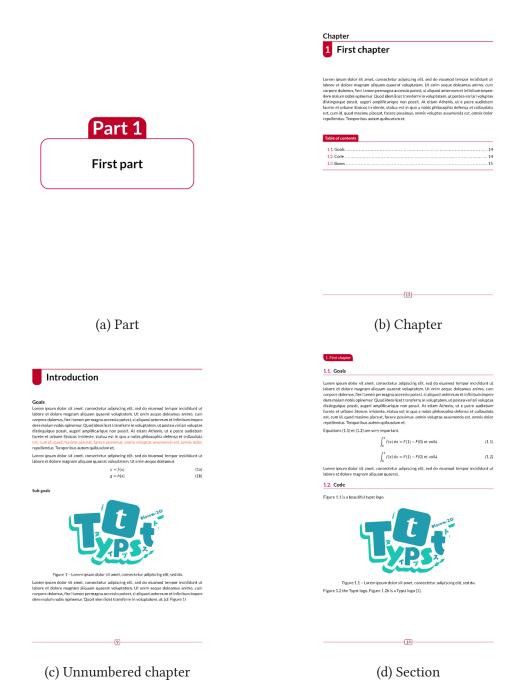
Figure 1.1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

14 | 1 First chapter

(c) Unnumbered chapter

(d) Section

Pretty

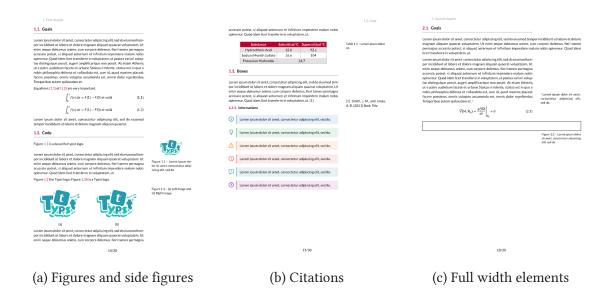


I.2.3 Layout

The template currently supports two layouts: standard and tufte.

The standard layout is the default layout, with symmetric margins. It is the most common layout for books and theses. Some examples of the standard layout are presented in Section I.2.2 "Themes gallery".

The tufte layout is inspired by the works of Edward Tufte, which emphasizes simplicity and clarity, often using wide margins for notes and figures. It is particularly suitable for books or theses that require extensive annotations or side comments. To implement the tufte layout, the template comes with several helper functions, implementing side notes, side figures, full width blocks, etc. (see Section III.7 for details). Some examples of the tufte layout are presented below.



Part II

Book content

The content of the book should be written in the main typ file or in additional files. The template provides a basic structure for writing a book.

In general, the section of the main file corresponding to the book content is structured as follows:

```
#show: front-matter

#include "front-content.typ"

#show: main-matter

#tableofcontents

#listoffigures

#listoftables

#part("Main body")

#include "chapter.typ"

#bibliography("bibliography.bib")

#show: appendix

#part("Document appendices")

#include "appendix.typ"
```

The content of the thesis is divided into three main sections: front-matter, main-matter, and appendix. These elements are accompanied by additional functions to facilitate writing.

II.1 Environments

The template provides three environments to structure the thesis content:

1. **front-matter**: environment for preliminary content (cover page, abstract, acknowledgments, etc.). Pages are numbered with Roman numerals and chapters are not numbered. To activate this environment, insert the following command in the main typ file at the desired location:

II Book content II.1 Environments

```
#show: front-matter
```

2. **main-matter**: environment for the main content (introduction, tables of contents, chapters, conclusion, bibliography, etc.). Pages and chapters are numbered with Arabic numerals. To activate this environment, insert the following command in the main typ file at the desired location:

```
#show: main-matter
```

3. **appendix**: environment for the appendices. Pages are numbered with Roman numerals and chapters are numbered with letters. To activate this environment, insert the following command in the main typ file at the desired location:

```
#show: appendix
```

II.2 Parts and chapters

To structure the book content, you can define parts using the **#part** function. To insert a new part, use the following command:

```
#part("Part title")
```

Chapters can also be defined using the standard Typst markup language. This template defines a function #chapter that helps you to avoid boilerplate code, such as the manual inclusion of standard elements like title, abstract, and minitoc.

```
#chapter((title), (abstract): none, (toc): true, (numbered): true)[body]
```

```
Argument (title) str

Chapter title.
```

```
Argument (abstract): none content

Summary displayed below the chapter title.
```

```
Argument (toc): true bool
```

Indicates whether a mini table of contents should be displayed at the beginning of the chapter.

```
Argument (numbered): true bool

Indicates whether the chapter should be numbered.
```

```
#chapter(
   "First chapter",
   abstract: lorem(20),
)[
   // Content of the chapter
]
```

If you use a *.typ file for each chapter, you can type at the top of the file the following code.

```
#show: chapter.with("First chapter", abstract: lorem(20), toc: true)
// Content of the chapter
== First section
```

For unnumbered chapters, you can simply use the #chapter-nonum function. This function assumes that you have a *.typ file per chapter.

```
#show: chapter-nonum

// Content of the chapter
= Chapter title
```

bookly also provides the label <nonum-sec> to create unnumbered sections. To use it, simply add the label <nonum-sec> after the title of the considered section.

```
== Section title <nonum-sec>
```

The <nonum-sec> label only works for sections and not for chapters. When applied to chapters, it breakes the global numbering of the document. For unnumbered chapters, use the #chapter-nonum function. instead

II.3 Tables of contents

The template defines several commands to facilitate the creation of tables of contents:

- #tableofcontents : Table of contents
- #listoffigures : List of figures

II Book content II.3 Tables of contents

• #listoftables : List of tables

A mini table of contents is automatically generated by using the command #minitoc in a chapter. This function is a wraper of the #suboutline function provided by the suboutline package.

Part III

Helper functions

III.1 Figure captions

The package include the command #ls-caption to manage long and short captions for figures and tables. Short caption are displayed in the list of figures or tables, while long captions are used in the main text and in the table of contents.

```
#figure(
  rect(),
  caption: ls-caption("Long caption", "Short caption")
)
```

The code of the command #ls-caption comes from the Typst book¹ by Sitandr.

III.2 Subfigures

In general, figures are inserted into the document using the #figure function from Typst. However, Typst currently does not provide mechanisms for handling subfigures (numbering and referencing). To address this limitation, the template includes a #subfigure function that manages subfigures appropriately. This function wraps the #subpar.grid function from the subpar package.

```
#subfigure(
  figure(image("imagel.png"), caption: []),
  figure(image("image2.png"), caption: []), <b>,
  columns: (lfr, lfr),
  caption: [Figure title],
  label: <fig:subfig>,
)
```

The example above shows a figure composed of two subfigures. The first subfigure has a caption, while the second has a label but no title. The second subfigure can be referenced in the text using the command @b.

 $^{^1}https://sitandr.github.io/typst-examples-book/book/snippets/chapters/outlines.html?highlight=long\#long-and-short-captions-for-the-outline$

III.3 Equations

To highlight an important equation, use the #boxeq function.

```
$
    #boxeq[$p(A|B) prop p(B|A) space p(A)$]
$
```

To create an equation without numbering, use the #nonumeq function.

```
#nonumeq[\frac{0^1 f(x)}{dif x} = F(1) - F(0)
```

bookly also provides the label <nonum-eq> to create unnumbered equations. To use it, simply add the label <nonum-eq> after the equation.

```
$
  integral_0^1 f(x) dif x = F(1) - F(0)
$ <nonum-eq>
```

The command #nonumeq will be deprecated in a future version in favor of the label <nonum-eq>.

III.4 Information boxes

The template provides several types of boxes to highlight different kinds of content:

- #info-box for remarks;
- #tip-box for tips;
- #warning-box for warnings;
- #important-box for important information;
- #proof-box for proofs;
- #question-box for questions.

```
#info-box[#lorem(10)]
#tip-box[#lorem(10)]
#warning-box[#lorem(10)]
#important-box[#lorem(10)]
#proof-box[#lorem(10)]
#question-box[#lorem(10)]
```

The appearance of the boxes depends on the selected theme (see the "Themes gallery" section).

The information boxes described above are built using the #custom-box function, which allows you to create custom boxes. This generic function takes the following parameters:

```
#custom-box((title): none, (icon): "info", (color): rgb("#1d90d0"))[body]

Argument —

    (title): none
                                                                                    str
     Name of the box.

Argument —

    (icon): "info"
                                                                                    str
     Name of the icon to display in the box.
     Available icons are:
     • ⚠ : "alert"
     • (i) : "info"
     • (?) : "question"
     • 🟳 : "report"
     • (!) : "stop"
     • \Omega : "tip"

Argument —

    (color): rgb("#1d90d0")
                                                                                  color
     Box color.
```

III.5 Title pages

The template provides two functions to create title pages: one for a book and one for a thesis :

```
#book-page-title(
  (subtitle): "Book subtitle",
  (edition): "First edition",
  (institution): "Institution",
  (series): "Discipline",
  (year): "2024",
  (cover): none,
  (logo): none
) [body]

Argument —

   (subtitle): "Book subtitle"
                                                                               str
     Subtitle of the book.
    – Argument –
   (edition): "First edition"
                                                                               str
```

Edition of the book.

Argument

(institution): "Institution" str

Name of the institution.

```
Argument —

    (series): "Discipline"
                                                                                str
     Name of the series.
    – Argument —
    (year): "2024"
                                                                                str
     Year of publication.

Argument —

    (cover): none
                                                                               image
     Cover image of the book.

Argument -

    ⟨logo⟩: none
                                                                              image
     Logo of the book.
  #show: book.with(
    title-page: book-title-page(
       logo: image("path_to_logo/logo.png"),
       cover: image("path_to_image/book-cover.jpg")
    )
  )
#thesis-page-title(
  (type): "phd",
  (school): "School name",
  (doctoral-school): "Name of the doctoral school",
  (supervisor): ("Supervisor name",),
  (cosupervisor): none,
  (laboratory): "Laboratory name",
  (defense-date): "01 January 1970",
  (discipline): "Discipline",
  (specialty): "Speciality",
  (committee): (:),
  (logo): none
) [body]

Argument —

    (type): "phd"
                                                                                str
     Type of thesis. Two values are possible:
     • "phd" for a doctoral thesis
     • "hablitation" for a French habilitation
```

```
Argument —

(school): "School name"
                                                                                str
 Name of the institution where the thesis was prepared.
(doctoral-school): "Name of the doctoral school"
                                                                                str
 Name of the doctoral school.
– Argument -
(supervisor): ("Supervisor name",)
                                                                              array
 Name of the thesis supervisor(s) or the guarantor of the habilitation.
- Argument —
(cosupervisor): none
                                                                              array
 Name of the thesis co-supervisor(s).

Argument —

(laboratory): "Laboratory name"
                                                                                str
 Name of the research laboratory.

Argument —

(defense-date): "01 January 1970"
                                                                                str
 Date of the thesis defense.
- Argument –
(discipline): "Discipline"
                                                                                str
 Name of the discipline.
- Argument —
(specialty): "Speciality"
                                                                                str
 Name of the specialty.
– Argument –
(committee): (:)
                                                                              array
 Name of the thesis committee members. Each element of the array is a dictionary
 with the following keys:
 • name: Name of the committee member.
 • position: Position of the committee member (e.g., "Associate Professor", "Profes-
   sor", etc.).
 • affiliation: Affiliation of the committee member (e.g., "University Name").
 • role: Role of the committee member (e.g., "Chair", "Member", "Reviewer").
```

```
Argument (logo): none image

Logo of the institution.
```

```
#let committee = (
    name: "Hari Seldon",
    position: "Full Professor",
    affiliation: "Streeling university",
    role: "President",
  ),
  (
    name: "Gal Dornick",
    position: "Associate Professor",
    affiliation: "Synnax University",
    role: "Reviewer"
  ),
)
#show: book.with(
  title-page: thesis-title-page(
    supervisor: ("Supervisor A", "Supervisor B"),
    cosupervisor: ("Co-supervisor A", "Co-supervisor B"),
    committee: committee
  )
)
```

For both title pages, the title of the document and its author are automatically generated based on the information given when initializing the template.

III.6 Back cover

A back cover of the document is automatically generated using the #back-cover function, which displays information about the thesis (title and author), as well as a summary in French and English.

```
#back-cover((resume): none, (abstract): none, (logo): none)

Argument
(resume)

Summary of the document in French.
```

III Helper functions III.6 Back cover

```
Argument
Summary of the document in English.

Argument
(logo)

Logo of the back cover.

#let logos = (align(left)[#image("images/devise_cnam.svg", width: 45%)], align(right)[#image("images/logo_cnam.png", width: 50%)])

#back-cover(lorem(10), lorem(10), logos)
```

III.7 Tufte layout

When the tufte layout is selected, several customizations are applied to adapt the appearance of various elements (figures, tables, equations, etc.) to the Tufte style.

```
#sidenote((dy): -1.5em, (numbered): true)[body]
     - Argument —
    \langle dy \rangle: -1.5em
                                                                                         length
      Vertical adjustment of the sidenote position.
     - Argument -
    (numbered): true
                                                                                           bool
      Indicates whether the sidenote should be numbered.
 When the layout is set to standard, the #sidenote function behaves like a standard #footnote.
#sidecite((key), (dy): -1.5em, (supplement): none)

Argument —

    (key)
                                                                                         label
      Key of the reference to cite.

Argument -

    \langle dy \rangle: -1.5em
                                                                                         length
      Vertical adjustment of the sidecite position.
     - Argument —
    (supplement): none
                                                                                            str
      Supplementary text to add before the citation (e.g., "see", "e.g.", etc.).
```

III Helper functions III.7 Tufte layout

```
When the layout is set to standard, the #sidecite function behaves like a standard #cite.
#sidefigure((content), (dy): -1.5em, (label): none, (caption): none)
    – Argument –
    (content)
                                                                                  content
     Content of the figure.
    – Argument –
    ⟨dy⟩: -1.5em
                                                                                   length
     Vertical adjustment of the sidefigure position.
    – Argument –
    (caption): none
                                                                                  content
     Caption of the figure.
    – Argument –
    (label): none
                                                                                    label
     Label of the figure.
#fullfigure((content), (label): none, (caption): none)
     - Argument -
    (content)
                                                                                   content
     Content of the figure.
    – Argument –
    (caption): none
                                                                                  content
     Caption of the figure.
    – Argument –
    (label): none
                                                                                    label
     Label of the figure.
```

When the layout is set to standard, #sidefigure and #fullfigure behave like a standard #figure.

Part IV

Theming

The theming system is designed to be flexible and customizable, allowing users to define their own themes.

To implement a custom theme, you have to define a function that includes the show and set rules defining the style of the document (headings, footnotes, references, ...). Basically, a theme should be structured as follows:

```
#import "@preview/bookly:1.1.0": *
#let my-theme(colors: default-colors, it) = {
  show heading.where(level: 1): it => {
    // Heading style
    . . .
  }
  show heading.where(level: 2): it => {
    // Heading style
    . . .
  }
  show heading.where(level: 3): it => {
    // Heading style
  }
  show outline.entry: it => {
   // Outline entry style
  }
  // Other show and set rules
  . . .
  it
}
```

IV Theming

You can also define your own functions such as #part, #minitoc and other elements of the document.

Then, you can initialize the template with your custom theme as follows:

```
#show: bookly.with(
  theme: my-theme,
  ...
)
```

Finally, bookly provides some states that can be useful when designing a custom theme. The states are used to store information about the current state of the document. They are collected in a dictionary . The following states are available:

• states.localization – dictionary: Dictionary of terms used in the document (e.g., "chapter", etc.) in the selected language.

If you need to use a language that is not supported by default, you can modify the states.localization dictionary when initializing the template.

For example, to add support for Dutch, you can do the following #states.localization.update(json("path_to_file/dutch.json")). The JSON file should contain the translations of the terms used in the document. For the english version, the JSON file is as follows:

```
1
   {
2
        "and": " and ",
3
       "appendix": "Appendix",
4
        "authored": "authored by",
        "chapter": "Chapter",
5
       "committee": "Defense committee",
7
        "cosupervisor": "Co-supervisor:",
        "cosupervisors": "Co-supervisors:",
8
       "defended": "defended on",
9
        "discipline": "Discipline:",
10
11
        "doctoral-school": "DOCTORAL SCHOOL",
        "habiliation": "French Habilitation to supervise research",
12
        "lof": "List of figures",
13
       "lot": "List of tables",
14
        "note": "Note",
15
        "part": "Part",
16
        "phd": "Doctoral thesis",
17
18
        "proof": "Proof",
        "specialty": "Specialty:",
19
        "sponsor": "Sponsor:",
20
        "sponsors": "Sponsors:",
21
22
        "supervisor": "Supervisor:",
        "supervisors": "Supervisors:",
23
```

- states.in-outline bool: Indicates whether the current section is in the outline.
- states.isfrontmatter bool: Indicates whether the current section is front matter.
- states.isappendix bool: Indicates whether the current section is an appendix.
- states.num-pattern str: Numbering pattern for sections.
- states.num-pattern-fig str: Numbering pattern for figures.
- states.num-pattern-subfig str: Numbering pattern for subfigures.
- states.num-pattern-eq str: Numbering pattern for equations.
- states.num-heading str: Numbering pattern for headings.
- states.page-numbering str: Numbering pattern for pages.
- states.part-numbering str: Numbering pattern for parts.
- states.author str: Author of the document.
- states.title str: Title of the document.
- states.counter-part str: Counter for parts.
- states.colors dictionary : Color scheme for the document.
- states.theme str: Current theme of the document.
- states.layout str: Current layout of the document.
- states.sidenotecounter int : Counter for sidenotes.

bookly also comes with a function #reset-counters to reset the counters for equations, figures, tables, sidenotes, and footnotes.

Part V

Roadmap

The template is under development. Here is the list of features that are implemented or will be in a future version.

Themes

- fancy
- ✓ modern
- classic
- User-defined themes (requires a refactoring of the theming)

Layout

- Standard layout
- Tufte layout

Cover pages

- Title page
- ☑ Back cover

Environments

- Creation of the front-matter environment
- Creation of the main-matter environment
- Creation of the appendix environment

Parts and chapters

- ✓ Creation of a document part #part
- Creation of a document chapter #chapter
- ✓ Creation of an unnumbered chapter #chapter-nonum

Tables of contents

- Creation of the table of contents #tableofcontents
- ✓ Creation of the list of figures #listoffigures
- ✓ Creation of the list of tables #listoftables
- ✓ Creation of a mini table of contents at the beginning of chapters using the suboutline package (see link²)
- Customization of entries (appearance, hyperlink) by modifying the outline.entry element
- ✓ Localization of the different tables

Figures and tables

- Customization of the appearance of figure and table captions depending on the context (chapter or appendix)
- Short titles for the lists of figures and tables
- Creation of the #subfigure function for subfigures via the subpar package

Equations

²https://typst.app/universe/package/minitoc

V Roadmap

- ✓ Adaptation of equation numbering depending on the context (chapter or appendix)
- ✓ Creation of a function to highlight important equations #boxeq
- ☑ Creation of a function to define equations without numbering #nonumeq
- ☑ Use of the equate package to number equations in a system like (1.1a)

Boxes

✓ Creation of information boxes to highlight important content

Bibliography

- ✓ Verification of the reference list via bibtex
- ✓ Same for hayagriva (see documentation³)

³https://github.com/typst/hayagriva/blob/main/docs/file-format.md