

## Jupyter Book 2 Headstart Template

{MyST}

## Preface

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## 1. Introduction

This is the *Jupyter Book 2 Headstart Template*, designed to quickly and easily produce your own online interactive textbook as well as a high quality pdf enabled with Typst using the Jupyter Book 2 technology.

This template:

- provides a ready-to-use Jupyter Book 2 structure for creating an online book (i.e., website)
- is pre-configured to produce a high quality pdf using Typst
- includes a number of lessons to get you started understanding key components of a book and how to edit it
- includes a GitHub Action to automatically build and deploy your book online and as a pdf

Hence, the template allows you to engage with JB2 without installing any software on your own computer. You only need a web browser and a GitHub account (we provide details on how to work locally on your own computer).

### Work in Progress

Materials in this document are under construction; the contents and order of the information and tasks may change, depending on workshop needs and feedback.

### Note

The template is and its content are not meant as a replacement of the documentation already available on the Jupyter Book 2 website and the MyST website. It is designed to support new users of Jupyter Book 2 and MystMD, in particular for use in workshop settings where participants may not have time or ability to install the required software on a personal computer.

### Enjoyment Warning!

Once you start building JB2 books, it is likely you will get hooked!



## 2. Markdown & Jupyter Notebook

Jupyter Book 2 (JB2) supports both Markdown files and Jupyter Notebooks as content sources.

### 2.0.1 Markdown

Markdown is a simple markup language: plain text that is *formatted* with small pieces of ‘code’. This allows you to create rich, interactive books that combine text, code, and visualizations. This text can then be quickly exported to various other formats such as PDF, Word, HTML, etc.

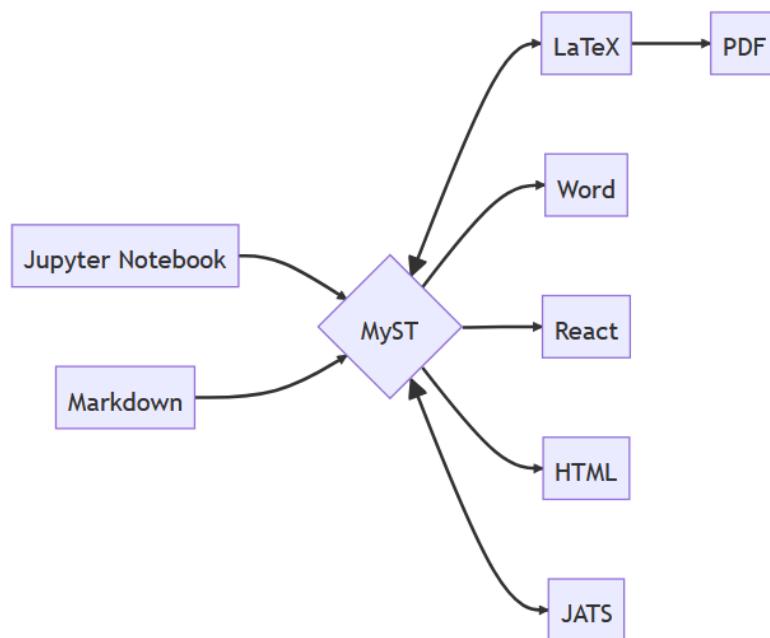


Figure 2.1: Documents made in MyST Markdown can be converted to many different formats. These can be saved as JSON, or rendered to a website (like this one!) or any number of formats including PDF & LaTeX, Word, React, or JATS. Picture taken from the MYST documentation<sup>1</sup>.

See below for an example of the Markdown language and how it is rendered in JB2.

#### rendered

### 2.1 This is a heading

This is a paragraph with **bold** and *italic* text.

- This is a list item
- Another list item

#### raw HTML

You can also include raw HTML in your Markdown files, but this will not be rendered in the PDF output.

<sup>1</sup><https://mystmd.org/guide/>

## markdown

```
# This is a heading
This is a paragraph with **bold** and *italic* text.
- This is a list item
- Another list item
```{warning} raw HTML
You can also include raw HTML in your Markdown files, but this will not
be rendered in the PDF output.
```

```

In the next chapter we cover most of the basic Markdown syntax you will need to create your own content.

### 2.1.1 Jupyter Notebooks

Jupyter Notebooks are interactive documents that combine live code, equations, visualizations, and narrative text made with Markdown. They are widely used for data analysis, scientific research, and teaching, allowing users to run code in a step-by-step manner and see immediate results.

JB2 allows to include Jupyter Notebooks directly in your book, making it easy to share interactive content with your readers. It also allows to run code cells and display the output directly in the book. Check the output below by first clicking the ON-button at the top right of this page. This loads the server. Once it is ready, you can run the code cell below by clicking the play button.

```
print("Hello, World!")
```

### 2.1.2 Cell Tags and Hiding Input

Cell tags in Jupyter Notebooks are metadata labels that you can assign to individual cells. They are useful for customizing the behavior of cells, such as hiding code input.

To hide the input of a code cell (so only the output is visible), you can add a tag like `hide_input` to that cell. JB2 recognizes this tag and will hide the code input when rendering or exporting the notebook.

To add a tag:

1. Select the cell.
2. Open the “View” menu and enable the “Cell Toolbar” arrow.r “Tags”.
3. Add the tag `hide_input` (or another tag recognized by your toolchain).

This feature is especially useful for creating clean, reader-friendly notebooks where you want to focus on results rather than code details, see below.

The code above provides a semi-interactive simulation: you are able to change two parameters but cannot control/adapt the code itself. This will be available in the near feature.

# {MyST}

### 3. Markdown (Cheat sheet)

Below is a set of frequently used markdown commands for Jupyter Book 2 made with MyST. A good practice is to download the source file by clicking the download icon at the top right of this page and inspect the code.

#### 3.1 Book structure

We can distinguish between two structures: that of the book's content (a collection of different documents), and the (internal) structure of the chapters which consists of content structured in sections and subsections.

##### 3.1.1 Table of Contents

In the `myst.yml` file, you can specify the structure of the book as shown in Figure 1. Here you can indicate which files belong to the book and in what order. You can also create dropdown menus. When not specifying a ToC, all files are automatically included in alphabetical order.

|    |                                              |
|----|----------------------------------------------|
| 36 | toc:                                         |
| 37 | - file: index.md # the landing page          |
| 38 | - file: Content/1_intro.md                   |
| 39 | - file: Content/2_jup_nb.ipynb               |
| 40 | - file: Content/3_cheat_sheet.md             |
| 41 | - file: Content/4_pdfoutput.md               |
| 42 | - file: Lessons/Your_turn.md # dropdown menu |
| 43 | children:                                    |
| 44 | - file: Lessons/Lesson0.md                   |
| 45 | - file: Lessons/Lesson1.md                   |
| 46 | - file: Lessons/Lesson2.md                   |
| 47 |                                              |

Figure 3.1: The Table of Contents (ToC) for this book.

If you create a new file, you need to add it to the `myst.yml` file to include it in the book.

##### 3.1.2 Chapters, sections and subsections

To distinguish between chapter, section, and subsection (and further), use a number of `#` symbols, as shown below.

```
# H1 chapter
## H1.1 section
### H1.1.3 subsection
```

#### Tip

Do not number your chapters and sections! This happens automatically.

#### Note

Files below `children` in the `myst.yml` file are considered sections, even when the heading has a single `#`.

### 3.2 Basic Formatting

Markdown is a markup language where text formatting is done with small pieces of code (just like HTML). This is a table with some frequently used formatting options.

| Element | Syntax                     | Example     |
|---------|----------------------------|-------------|
| Bold    | <code>**bold text**</code> | <b>Bold</b> |

| Element        | Syntax                                                                                    | Example                             |
|----------------|-------------------------------------------------------------------------------------------|-------------------------------------|
| Italic         | *italics*                                                                                 | <i>Italics</i>                      |
| Emphasis       | ***emphasis***                                                                            | <b>emphasis</b>                     |
| Inline Formula | \$F = m \cdot a\$                                                                         | $F = m \cdot a$                     |
| Footnote       | - A footnote reference[^myref]<br>[^myref]: This is an auto-numbered footnote definition. | • A footnote reference <sup>2</sup> |

You can create a new line by either a hard enter and a blank line, a \ at the end of the line and enter, or two spaces at the end of the line.

### 3.2.1 New Line

Generally, in markdown, a single hard enter does not create a new line. You need to use one of the options below.

#### ways for a new line

A new line with double space.

A new line with a \.

A new line with a hard enter and blank line.

No new line with just a hard enter and text on the next line. Like this

#### syntax

A new line with double space.

A new line with a ``\``.

A new line with a hard enter and blank line.

No new line with just a hard enter and text on the next line.

Like this

### 3.2.2 Equations & Symbols

For STEM subjects, mathematical equations and symbols ( $\Delta\lambda$ ) are essential. You can include equations in JB's. What is possible in LaTeX is also possible in JB, for example:

$$F_{res} = m \cdot a \tag{3.1}$$

Where labeled equations, such as (1), can be referenced.

\$\$ Equation \$\$ (<label>)

But you can also include inline equations like this:  $s = v_{avg} t$ . Use a single dollar sign before and after: \$ Equation \$

| Name      | Script         | Symbols       |
|-----------|----------------|---------------|
| root      | \sqrt{4}       | $\sqrt{4}$    |
| power     | $\wedge\{2x\}$ | $^{2x}$       |
| fraction  | \frac{2}{3}    | $\frac{2}{3}$ |
| subscript | _avg           | $_{avg}$      |

---

<sup>2</sup>This is an auto-numbered footnote definition.

# {MyST}

| Name        | Script    | Symbols |
|-------------|-----------|---------|
| superscript | $\hat{N}$ | $N$     |
| multiply    | $\cdot$   | $\cdot$ |

Some examples:

| Name       | Script                      | Output                      |
|------------|-----------------------------|-----------------------------|
| Derivative | $\frac{\Delta f}{\Delta t}$ | $\frac{\Delta f}{\Delta t}$ |
| Integral   | $\int_a^b dx$               | $\int_a^b dx$               |
| sine       | $\sin(x)$                   | $\sin(x)$                   |

More: <https://en.wikibooks.org/wiki/TeX/Mathematics>

## 3.3 Lists & tables

### 3.3.1 Lists Option 1

#### list

- 1. item 1
- 2. item 2.
- 3. item 3.

#### syntax

- 1. item 1
- 1. item 2.
- 1. item 3.

### 3.3.2 Lists Option 2

#### list

- 1. item 1
- 2. item 2.
- 3. item 3.

#### syntax

- 1. item 1
- 2. item 2.
- 3. item 3.

### 3.3.3 Tables

Tables are created with the separator |

#### Tables

```
Header 1	Header 2	Header 3
text 1	text 2	text 3
text 4	text 5	text 6
```

## MyST Syntax

```
```
|Header 1|Header 2|Header 3|
|---|---|---|
|text 1|text 2|text 3|
|text 4|text 5|text 6|
```
```

Or via ...

## Tables

|                                                                                                            |
|------------------------------------------------------------------------------------------------------------|
| Behavior                                                                                                   |
| <ul style="list-style-type: none"> <li>• Sanction for 1st time</li> <li>• Sanction for 2nd time</li> </ul> |
| Not (timely or with a valid reason) deregistered                                                           |
| <ul style="list-style-type: none"> <li>• A penalty</li> <li>• exclusion</li> </ul>                         |

Table 3.2: Overview of sanctions for certain behavior

## MyST Syntax

```
```{list-table} Overview of sanctions for certain behavior
:header-rows: 1
:name: tl_sanctions
* - Behavior
  - Sanction for 1st time
  - Sanction for 2nd time
* - Not (timely or with a valid reason) deregistered
  - A penalty
  - exclusion
```
```

Method 2 has the advantage of allowing references to Table 1

### 3.3.4 Tabs

```
:::::{tab-set}
:::{tab-item} Tab 1
Text in tab 1
:::

:::{tab-item} Tab 2
Text in tab 2
:::
::::
```

Will create this tab:

### Tab 1

Text in tab 1

## Tab 2

Text in tab 2

### 3.3.5 Cards

#### cards

##### Title

With some text

#### syntax

```
```{card} Title
:header: header
:footer: footer
```

With some text  
```

### 3.3.6 Checklists

#### list

- Create a markdown cheat sheet
- Publish online
- Let others test

#### syntax

```
- [x] Create a markdown cheat sheet
- [x] Publish online
- [ ] Let others test
```

## 3.4 Admonitions

You can add special blocks that are highlighted in the text. See, for example, the warning below.

### Warning

Here is a warning

Created using:

```
```{warning}
Here is a warning
```

```

There are different variants such as:

- tip
- admonition
- warning
- note

## Exercise 3.3: Exercise 1

Calculate  $4 + 2$

## Solution 3.4: Solution to Exercise 1

6

- objective
- see also ...

### The golden...

Exercises are a special kind of admonition.

#### 3.4.1 Exercises

A special case is the exercises which can be labeled and can come with a solution that is linked to the exercise:

#### 3.5 Figures

A site/book naturally needs figures. There are roughly two ways to add a figure:

*Quick figure, without formatting options*

| Quick figure | ) |

*Better way with more control:*

#### Figures



Figure 3.5: With a nice caption

#### MyST Syntax

```
```{figure} https://github.com/rowanc1/pics/blob/main/sunset.png
:label: fig1
:width: 70%
:align: center

With a nice caption
```
```

Here we used figures hosted online, but you can also add figures to a folder (e.g., called *Figures*), and then use a relative path.

### 3.6 YouTube

To embed YouTube videos on the site, you need the embed YT link. The code is then:

#### YouTube

Figure 3.6: A super fun video from the project Show the Physics

#### syntax

```
```{iframe} https://www.youtube.com/embed/YDBr1Lof_mI?si=thWYK9MFi5QJv-tW
:width: 80%
:align: center

A super fun video from the project [Show the Physics](https://interactive
textbooks.tudelft.nl/showthephysics)
```
```

#### YT in pdf

Embedded YT videos are not included in the PDF. A solution could be to include a QR code, for example.

### 3.7 References & Links

You can include links like this. With the markdown syntax: [text](link).

It is also possible to include reference through the reference.bib file, or directly by including the DOI: Pols (2021) (syntax: [](<https://doi.org/10.1088/1361-6552/abf208>)) or (Pols, 2021) (syntax: [@doi:10.1088/1361-6552/abf208]).

Below a few examples of links and references to labeled items.

#### list

- This is a hyperlink
- This is a reference to equation (1)
- This is a reference to a table like Table 1
- This is a reference to a figure like Figure 2

#### syntax

```
* This is a [hyperlink](https://nos.nl)
* This is a reference to equation {eq}`eq:Newton`
* This is a reference to a table like {numref}`Table {number}
<tl_sanctions>
* This is a reference to a figure like {numref}`Figure {number}
<fig_sunset>
```

# {MyST}

## 4. Export to pdf

You can export your book to a pdf in two ways: using LaTeX or Typst. Both have their advantages and disadvantages. For this template we made an automated GH action that builds the pdf for you utilizing Typst.

### 4.1 Specify output in myst.yml

We specified in the `myst.yml` file that we want to export to pdf using Typst. You can also choose LaTeX. See the `myst.yml` file, or Figure 1 for the syntax.

```
22   exports:
23     - format: typst
24     template: ./pdf_template_book
25     output: Exports/book.pdf
26     id: output-pdf
27   downloads:
28     - id: output-pdf
```

Figure 4.1: Example of the export section in the `myst.yml` file.

Using the export option, a pdf will be generated in the `Exports` folder every time you push to GitHub. You can specify the output template. We won't go into detail here, but you can find more information [here](#).

#### Note

We included a basic Typst book template and a GitHub action that build the pdf. However, this only works when there are no errors in the markdown files. For instance, it breaks when figures are missing.

# {MyST}



## 5. Get going yourself

Now it's your turn to get going with creating content in a Jupyter Book.

There are some conditions to meet before you can get started:

- Programming experience is not necessary, but it does make things a bit easier.
- A free GitHub account.
- A little bit of patience, it's a steep learning curve.

Optional:

- Software to write your code in, such as Visual Studio Code (VSC).

We provide instructions for building using the GitHub dev IDE, as well as building locally.

For the latter we assume knowledge about VSC, and the use of git.

Ready? Let's get started..

## 5.1 Lesson 0: Head start with GH template

This lesson gives you a head start in creating your own online book using GitHub and the template repository JB2\_book\_template.

### 5.1.1 Set up your own repository

Follow these instruction to use this template for your own book.

1. Go to this repository
2. Click the green button `use this template` and click `create a new repository`.
3. Choose a proper name of your repository (this will be also part of your URL!) and choose the option `public`.
4. In your repository, click on `settings` and in the left menu on `Pages` and choose `Github actions`

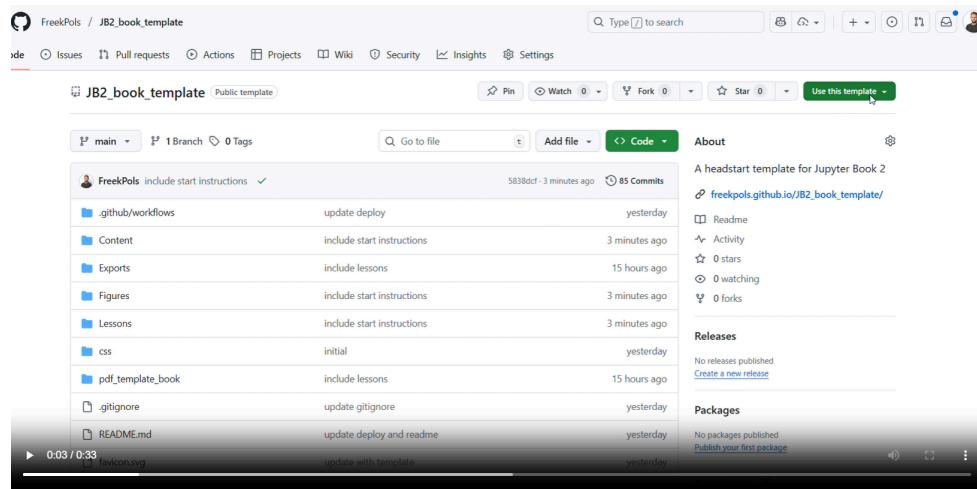


Figure 5.1: Follow these steps to create your own repository from the template.

5. Click on `code` and click on the gear-icon (near **About**) at the right site of the page.
6. Check the box **Use your GitHub Pages website**.
7. Go to `actions` in the topmenu, click on the (red) `initial` commit and click `re-run all jobs`

The book will now be deployed again - where now it can actually load GitHub pages.

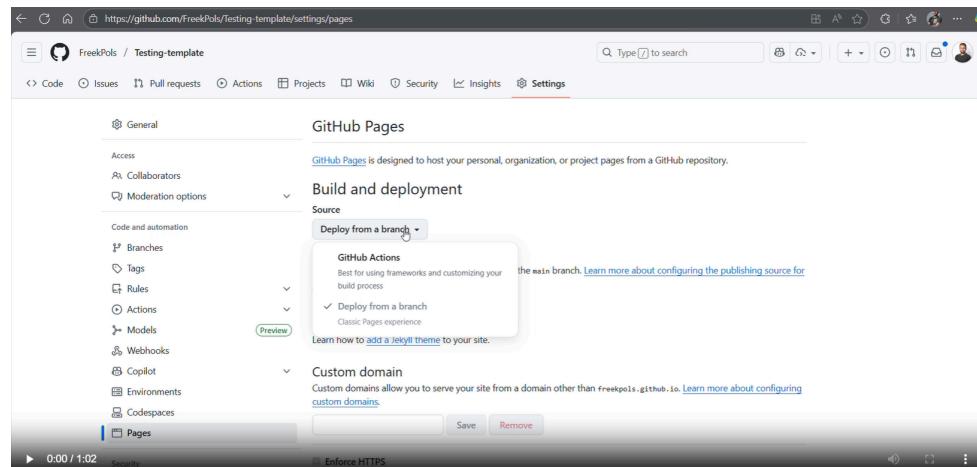


Figure 5.2: Follow these steps to create your own GHpages from the template.

8. Use the book link (`code` → below **About**) to your Github page where the book is hosted.



9. The output resembles Figuur 3.



Figure 5.3: Once the book has been deploy, you can visit your site which looks like this.

### 5.1.2 Repo folder structure

Your GitHub repository looks like the one shown in Figure 4. We have the following subfolders:

- Content: the source files of your book (in markdown or jupyter notebook format)
- Exports: the folder which may include a pdf export of your book
- Figures: the folder which includes figures for your book (*could be in content folder*)
- Lessons: the folder which includes the lessons of this tutorial (*could be in Content folder*)
- .github/workflows: the folder which includes the GitHub actions (automated workflows) to build and deploy your book
- css: the folder which includes the custom css file to change the layout of your book
- pdf\_template\_book: the folder which includes the typst template to create a pdf export of your book

**Testing-template** Public  
generated from [FreekPols/JB2\\_book\\_template](#)

main 1 Branch 0 Tags Go to file Add file Code About

FreekPols Initial commit e25e840 · 7 minutes ago 1 Commit

| File              | Commit         | Time          |
|-------------------|----------------|---------------|
| .github/workflows | Initial commit | 7 minutes ago |
| Content           | Initial commit | 7 minutes ago |
| Exports           | Initial commit | 7 minutes ago |
| css               | Initial commit | 7 minutes ago |
| pdf_template_book | Initial commit | 7 minutes ago |
| .gitignore        | Initial commit | 7 minutes ago |
| README.md         | Initial commit | 7 minutes ago |
| favicon.svg       | Initial commit | 7 minutes ago |
| index.md          | Initial commit | 7 minutes ago |
| logo.svg          | Initial commit | 7 minutes ago |

About freekpolis.github.io/Testing-template/  
Readme Activity 0 stars 0 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

Deployments 2

Figure 5.4: Once the book has been deploy, you can visit your site which looks like this.

### Using the GH IDE

It is possible to work directly in the GitHub environment: no need to install anything as this is already covered with the GH actions that we created.

1. Click on the index.md file in the Content folder
2. Click on the drop down icon next to the pencil icon and choose open in `github.dev` This will start the GitHub development environment where you can edit the files directly in your browser.
3. Edit the file by replacing the names with your own and commit your changes (see ... BROKEN REF

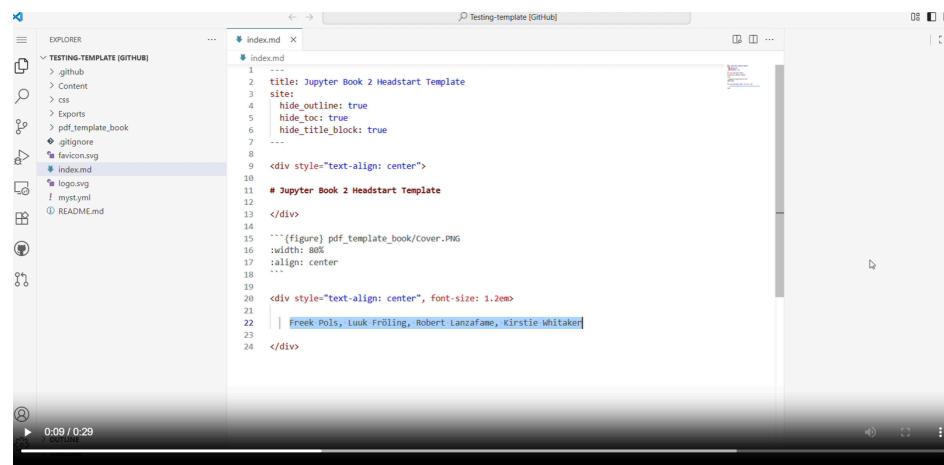


Figure 5.5: Working directly in the GitHub development environment.

Now, if you go back to your repository and click on `actions` you will see that the workflow is running to build and deploy your book. After a few minutes, you can refresh your book page and see your changes live!

## Working locally

**PLACEHOLDER: add instructions to work locally** To work locally on your computer, follow these steps:

1. Clone the repository to your local machine using Git.
2. Install the necessary dependencies (e.g., Python, Jupyter) to build and preview the book.
3. Make changes to the content files in the Content folder.
4. Build the book locally using the provided scripts or commands.
5. Preview the book in your browser to see the changes.

## 5.2 Lesson 1: Make your own content

### 5.2.0.1 Anatomy of a Jupyter Book

A Jupyter Book is a collection of files and folders that together make up the content and structure of your book. The structure of the book is specified in the `myst.yml` file, which is located in the root directory of your book. This file contains information about the title, author, and other metadata of the book, as well as documents and its structure to build the book itself.

#### `myst.yml` file

```
# See docs at: https://mystmd.org/guide/frontmatter
version: 1
project:
  # title:
  # description:
  keywords: []
  authors: []
  # github:
  # bibliography: []
site:
  template: book-theme
  # title:
  # options:
  #   logo: my_logo.png
  nav: []
  actions:
    - title: Learn More
      url: https://mystmd.org/guide
domains: []
```

#### Official documentation

See here for a full explanation of the structure and TOC and here for more the website options.

### 5.2.0.2 Your first changes via GitHub 🌶

As explained in the previous chapter, your files are on GitHub and the template ensures the book is built. You can make changes directly to the files online in GitHub, and create or upload new files.

Some files are already present in the template book. The folder structure is shown below

#### ToC

```
toc:                                # table of contents
  - file: index.md                  # the landing page
  - file: content/1_intro.md
  - file: content/2_jup_nb.ipynb
  - file: content/3_cheat_sheet.md
  - file: content/4_pdfoutput.md
  - file: content/lessons/your_turn.md
    children:                         # dropdown menu
      - file: content/lessons/lesson0.md # first item in dropdown,
note indentation
        - file: content/lessons/lesson1.md
        - file: content/lessons/lesson2.md
```

```

- file: content/lessons/lesson3.ipynb
- file: content/lessons/lesson4.md
- file: content/software.md          # not in dropdown menu

```

We will now make a small change to one of the files and then look at the result of that change.

### 5.2.0.3 Create a chapter

#### 5.2.0.3.1 Create a section

#### 5.2.0.3.2 Include an equation

### 5.2.1 Your first changes via GitHub

As explained in the previous chapter, your files are on GitHub and the template ensures the book is built. You can make changes directly to the files online in GitHub, and create or upload new files.

Some files are already present in the template book. The folder structure is shown in ...  
BROKEN REF

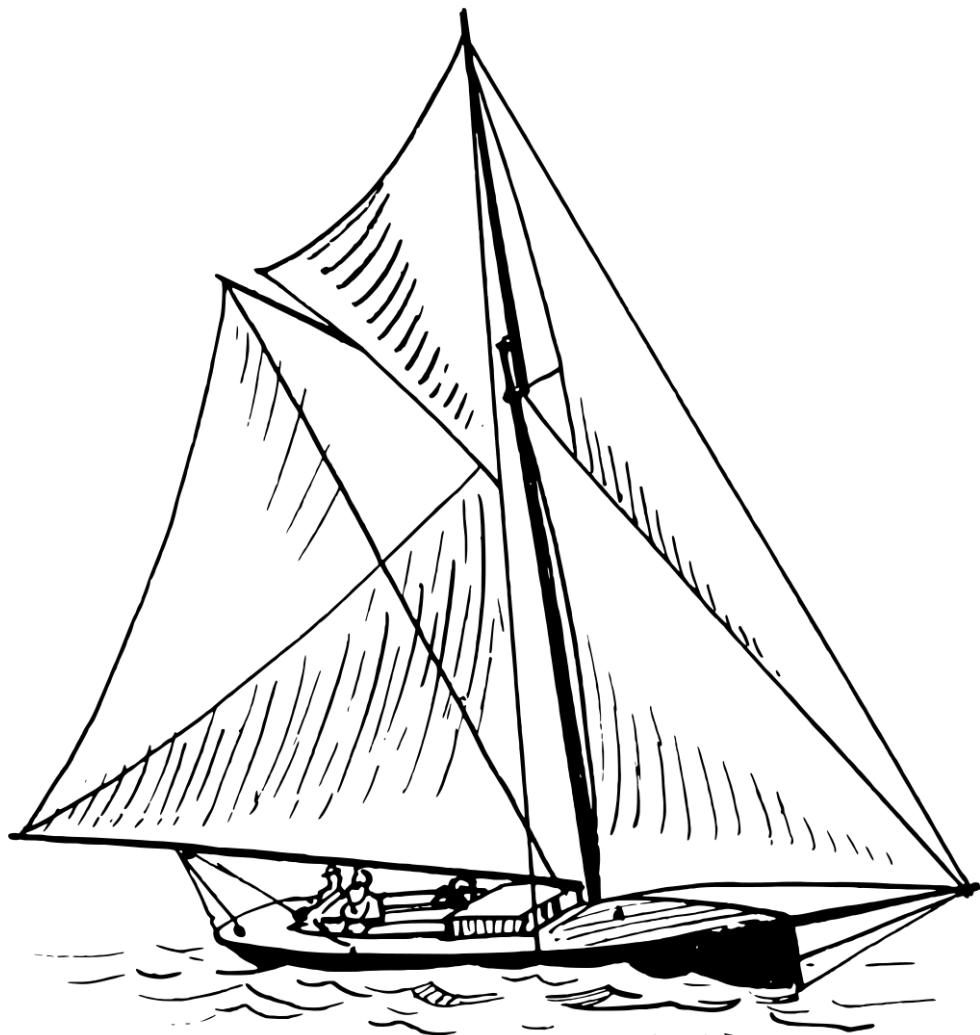


Figure 5.8:

## Exercise 5.6: Your first change

### GH IDE

Navigate to the file `book/some_content/overview.md`. Then click on the pencil on the right (edit this file).

Change the text after the `#`. This is the title of the file.

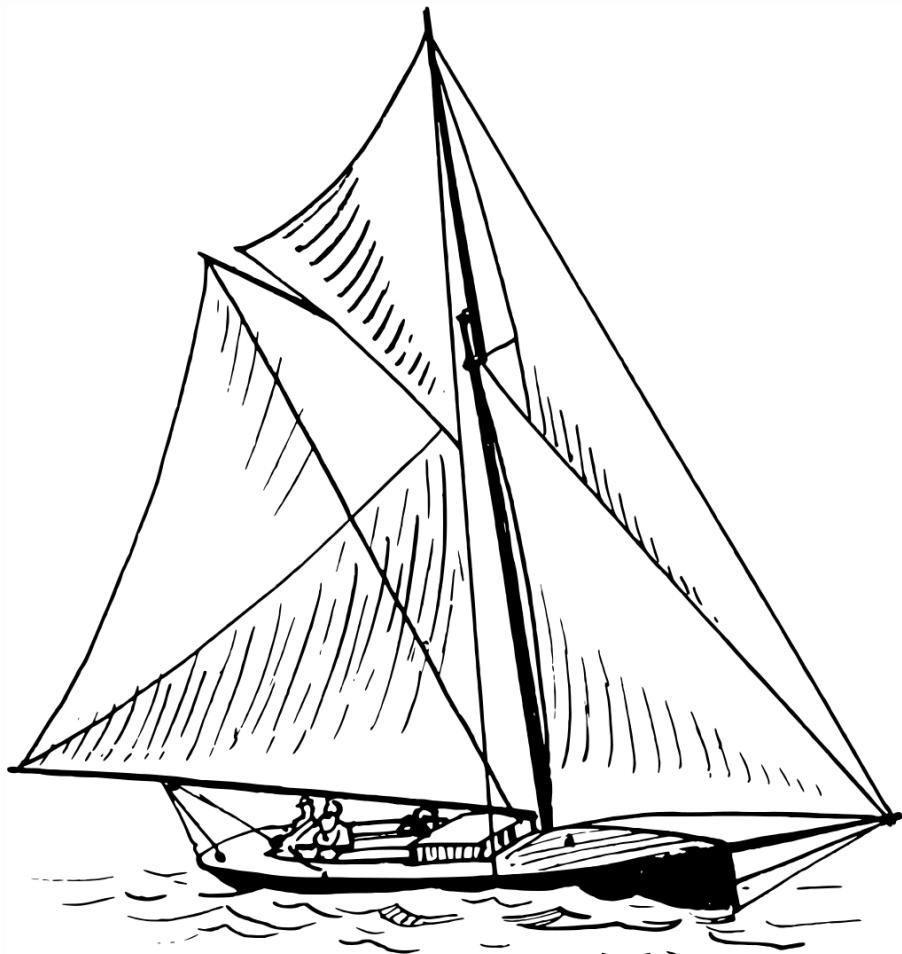


Figure 5.7:

Optionally, make other changes in the text editor and when you're done, commit your changes to the “remote repository” by clicking the green `Commit changes` button.

The book will now be rebuilt. Once that's done, you can view the result on the GitHub page.

### Local

Navigate to the file `book/some_content/overview.md` and open the file.

Change the text after the `#`. This is the title of the file.

Optionally, make other changes in the text editor. Check the results by running `myst start` in the CLI and opening the local server `http://localhost:3000/`. When you're done, commit your changes to the “remote repository”.

The book will now be rebuilt. Once that's done, you can view the result on the GitHub page as well.

## Exercise 5.9: Your first change

Navigate to the file book/some\_content/overview.md. Then click on the pencil on the right (edit this file).

Change the text after the #. This is the title of the file.



Figure 5.10:

Optionally, make other changes in the text editor and when you're done, commit your changes to the “remote repository” by clicking the green Commit changes button.

The book will now be rebuilt. Once that's done, you can view the result on the GitHub page.

### 5.2.1.1 width: 80% name: fig\_templatecontent

The folder structure in the template book.

We will now make a small change to one of the files and then look at the result of that change.

### 5.2.1.2 Adding a figure

A figure sometimes says more than 1000 words...



If we want to add a figure to our book, we can refer to another website (as in the figure above). However, this carries the risk that the figure will no longer be visible if it is moved from its location. It is therefore better to have the figure as a local source file.

So, we first need to upload a figure to GitHub and then refer to that figure in our file.  
(Note! This will become much easier later.)

### Warning

The code is case sensitive. So it matters whether your extension is .png or .PNG

### Tip

We have a page with all important codes.

You can find more information about figure options here.

You can position figures in different places (left / center / right / margin), adjust the size, add a caption, etc. Check the documentation above and try out the different settings.

## Exercise 5.11:

On GitHub, under the code tab...

1. Navigate to book/figures and click on add file → Upload files.

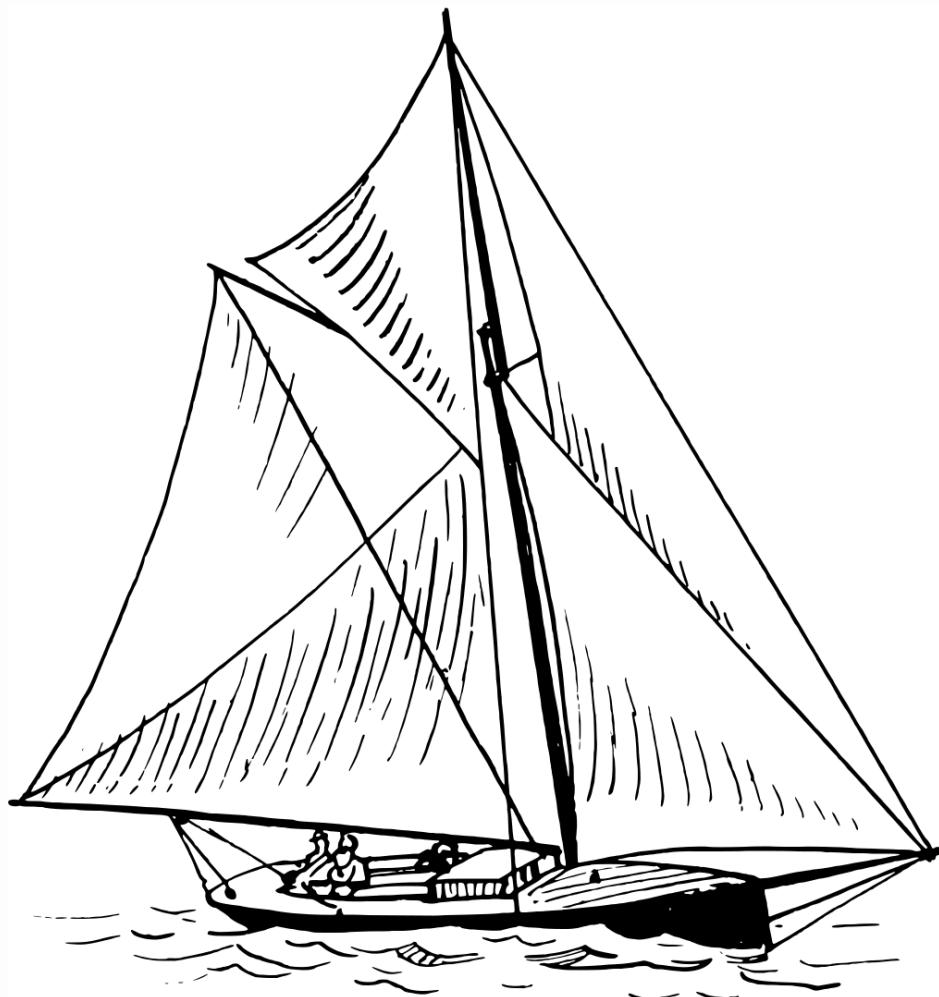


Figure 5.12:

### 5.2.1.3 width: 50%

add file in the folder

2. Choose the figure you want to add (remember the file name!).
3. Commit your changes to GitHub (the file will be uploaded).
4. Navigate to book and open `intro.md` and click `edit this file`.
5. Copy the code below into that file, and change the figure name to your own figure's name.

```
``` {figure} figures/incl_fig.PNG
---
width: 50%
name: fig_myfirstfigure
---
add file in the folder
````
```

6. Commit your change and view the result on GitHub pages.

## Exercise 5.13: Add an equation

Take a look at the Cheatsheet page to see how to add a formula and give it a try...

## Exercise 5.14: Other changes

Try making some other changes, for example by further developing the structure of the page into sections and subsections, each with some text. View the result.

### 5.2.1.4 Your favorite equation

### 5.2.1.5 Other changes



## 5.3 Lesson 2: Include awesomeness

5.3.1 Embed video from YouTube using iframe

5.3.2 Include figure

5.3.3 Include python code using code-block



## 5.4 Lesson 3: Interactive python plot



## 5.5 Creating your landing page

# {MyST}



## 6. Software



## References

- Pols, F. (2021). What's inside the pink box? A nature of science activity for teachers and students. *Physics Education*, 56(4), 45004. <https://doi.org/10.1088/1361-6552/abf208>