



2020

jupyterCON

*module 4:*

# Jupyter Book configuration

by Martina Vilas  
@martinagvilas

#JupyterCon2020



## so far ...

- you know the basic and essential components of a Jupyter Book

## so far ...

- you know the basic and essential components of a Jupyter Book
- you have built your (very basic) first Jupyter Book (*module 3*)

# so far ...

- you know the basic and essential components of a Jupyter Book
- you have built your (very basic) first Jupyter Book (*module 3*)

My Jupyter Book

Search this book...

Welcome

[Guide for Reproducible Research](#)

Overview

Definitions

Benefits

Resources

Open Research

Open Data

Open Source

Open Hardware

Open Access

Open Notebooks

Open Scholarship

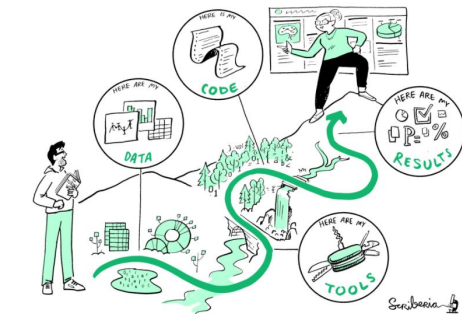
Powered by [Jupyter Book](#)

## Guide for Reproducible Research

This guide covers topics related to skills, tools and best practices for research reproducibility.

The *Turing Way* defines reproducibility in data research as data and code being available to fully rerun the analysis.

There are several definitions of reproducibility in use, and we discuss these in more detail in the definitions section of this chapter. While it is absolutely fine for us each to use different words, it will be useful for you to know how *The Turing Way* defines reproducibility to avoid misunderstandings when reading the rest of the handbook.



## learning objectives of *module 4*

- explain what a `_config.yml` is and how we can use it to personalise the appearance of our Jupyter Book

## learning objectives of *module 4*

- explain what a `_config.yml` is and how we can use it to personalise the appearance of our Jupyter Book
- give examples of parameters of a Jupyter Book that can be modified with a `_config.yml`

**configuration file (`_config.yml`)**

# configuration file (`_config.yml`)

```
#####  
# Book settings  
title: The Turing Way # The title of the book  
author: The Turing Way Community # The author of the book to be placed in the footer  
copyright: '2020' # Copyright year to be placed in the footer  
logo: ./figures/logo.png # A path to the book logo  
  
#####  
# HTML-specific settings  
html:  
  favicon: ./figures/favicon-32x32.png # A path to a favicon image  
  navbar_footer_text: Visit our <a href="https://github.com/alan-turing-institute/the-turing-way">GitHub  
    Repository</a> <div> This book is powered by <a href="https://jupyterbook.org">Jupyter  
    Book</a> </div> # Will be displayed underneath the left navigation bar.  
  use_repository_button: true # Whether to add a link to your repository button  
  use_issues_button: true # Whether to add an "open an issue" button  
  
#####  
# Launch button settings  
repository:  
  url: https://github.com/alan-turing-institute/the-turing-way # The URL to your book's repository  
  path_to_book: book/website # A path to your book's folder, relative to the repository root  
  branch: master # Which branch of the repository should be used when creating links
```



# configuration file (`_config.yml`)



The Turing Way

🔍 Search this book...

Welcome

Reproducibility Guide

By The Turing Way Community

© Copyright 2020.

```
#####
```

```
# Book settings
```

```
title: The Turing Way # The title of the book
```

```
author: The Turing Way Community # The author of the book to be placed in the footer
```

```
copyright: '2020' # Copyright year to be placed in the footer
```

```
logo: ./figures/logo.png # A path to the book logo
```

```
#####
```

```
# HTML-specific settings
```

```
html:
```

```
  favicon: ./figures/favicon-32x32.png # A path to a favicon image
```

```
  navbar_footer_text: Visit our <a href="https://github.com/alan-turing-institute/the-turing-way">GitHub
```

```
    Repository</a> <div> This book is powered by <a href="https://jupyterbook.org">Jupyter
```

```
    Book</a> </div> # Will be displayed underneath the left navigation bar.
```

```
  use_repository_button: true # Whether to add a link to your repository button
```

```
  use_issues_button: true # Whether to add an "open an issue" button
```

```
#####
```

```
# Launch button settings
```

```
repository:
```

```
  url: https://github.com/alan-turing-institute/the-turing-way # The URL to your book's repository
```

```
  path_to_book: book/website # A path to your book's folder, relative to the repository root
```

```
  branch: master # Which branch of the repository should be used when creating links
```

# configuration file (`_config.yml`)

```
#####  
# Book settings  
title: The Turing Way # The title of the book  
author: The Turing Way Community # The author of the book to be placed in the footer  
copyright: '2020' # Copyright year to be placed in the footer  
logo: ./figures/logo.png # A path to the book logo  
  
#####  
# HTML-specific settings  
html:  
  favicon: ./figures/favicon-32x32.png # A path to a favicon image  
  navbar_footer_text: Visit our <a href="https://github.com/alan-turing-institute/the-turing-way">GitHub  
    Repository</a> <div> This book is powered by <a href="https://jupyterbook.org">Jupyter  
    Book</a> </div> # Will be displayed underneath the left navigation bar.  
  use_repository_button: true # Whether to add a link to your repository button  
  use_issues_button: true # Whether to add an "open an issue" button  
  
#####  
# Launch button settings  
repository:  
  url: https://github.com/alan-turing-institute/the-turing-way # The URL to your book's repository  
  path_to_book: book/website # A path to your book's folder, relative to the repository root  
  branch: master # Which branch of the repository should be used when creating links
```



🔍 Search this book...

Welcome

Reproducibility Guide

Visit our [GitHub Repository](#)  
This book is powered by [Jupyter Book](#)

# configuration file (`_config.yml`)

```
#####
```

```
# Book settings
```

```
title: The Turing Way # The title of the book
```

```
author: The Turing Way Community # The author of the book to be placed in the footer
```

```
copyright: '2020' # Copyright year to be placed in the footer
```

```
logo: ./figures/logo.png # A path to the book logo
```

```
#####
```

```
# HTML-specific settings
```

```
html:
```

```
  favicon: ./figures/favicon-32x32.png # A path to a favicon image
```

```
  navbar_footer_text: Visit our <a href="https://github.com/alan-turing-institute/the-turing-way">GitHub
```

```
    Repository</a> <div> This book is powered by <a href="https://jupyterbook.org">Jupyter
```

```
    Book</a> </div> # Will be displayed underneath the left navigation bar.
```

```
  use_repository_button: true # Whether to add a link to your repository button
```

```
  use_issues_button: true # Whether to add an "open an issue" button
```

```
#####
```

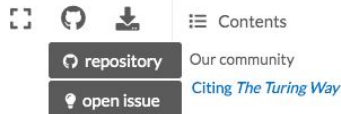
```
# Launch button settings
```

```
repository:
```

```
  url: https://github.com/alan-turing-institute/the-turing-way # The URL to your book's repository
```

```
  path_to_book: book/website # A path to your book's folder, relative to the repository root
```

```
  branch: master # Which branch of the repository should be used when creating links
```



# configuration file (`_config.yml`)

```
#####
# A default configuration that will be loaded for all Jupyter books
# Users are expected to override these values in their own `_config.yml` file.
# This is also the "master list" of all allowed keys and values.
#####

# Book settings
title           : My Jupyter Book # The title of the book. Will be placed in the left navbar.
author          : The Jupyter Book community # The author of the book
copyright       : "2020" # Copyright year to be placed in the footer
logo            : "" # A path to the book logo
# Patterns to skip when building the book. Can be glob-style (e.g., "**skip.ipynb")
exclude_patterns : [ "_build", "Thumbs.db", ".DS_Store", "**.ipynb_checkpoints" ]

#####
# Execution settings
# execute:
#   execute_notebooks : auto # Whether to execute notebooks at build time. Must be one of ("auto", "force", "cache",
#   "off")
#   cache              : "" # A path to the Jupyter cache that will be used to store execution artifacts. Defaults to
#   `'_build/.jupyter_cache/'`
#   exclude_patterns  : [] # A list of patterns to "skip" in execution (e.g., a notebook that takes a really long time)
#   timeout            : 30 # The maximum time (in seconds) each notebook cell is allowed to run.
#   run_in_temp        : false # If "True", then a temporary directory will be created and used as the command working
#   directory (cwd),
#   # otherwise the notebook's parent directory will be the cwd.
allow_errors     : false # If "False", when a code cell raises an error the execution is stopped, otherwise all cells
are always run.
stderr_output    : show # One of "show", "remove", "remove-warn", "warn", "error", "severe"

#####
# Parse and render settings
parse:
  myst_extended_syntax : false # enable MyST extended syntax support (see documents for details)
  myst_url_schemes     : [mailto, http, https] # URI schemes that will be recognised as external URLs in Markdown links

#####
# Launch button settings
launch_buttons:
  notebook_interface : classic # The interface interactive links will activate (["classic", "jupyterlab"])
  binderhub_url       : https://mybinder.org # The URL of the BinderHub (e.g., https://mybinder.org)
  jupyterhub_url      : "" # The URL of the JupyterHub (e.g., https://datahub.berkeley.edu)
  thebe               : false # Add a thebe button to pages (requires the repository to run on Binder)
  colab_url           : https://colab.research.google.com # The URL of Google Colab (e.g.,
https://colab.research.google.com)

repository:
  url           : https://github.com/executablebooks/jupyter-book # The URL to your book's repository
  path_to_book  : "" # A path to your book's folder, relative to the repository root.
  branch        : master # Which branch of the repository should be used when creating links

#####
# Advanced and power-user settings
sphinx:
  extra_extensions : [] # A list of extra extensions to load by Sphinx (added to those already used by JB).
  config           : {} # key-value pairs to directly over-ride the Sphinx configuration

#####
# HTML-specific settings
html:
  favicon           : "" # A path to a favicon image
  use_edit_page_button : false # Whether to add an "edit this page" button to pages. If `true`, repository information in
  repository: must be filled in
  use_repository_button : false # Whether to add a link to your repository button
  use_issues_button     : false # Whether to add an "open an issue" button
  extra_navbar          : Powered by <a href="https://jupyterbook.org">Jupyter Book</a> # Will be displayed underneath the
  left navbar.
  extra_footer          : "" # Will be displayed underneath the footer.
  google_analytics_id   : "" # A GA id that can be used to track book views.
  home_page_in_navbar   : true # Whether to include your home page in the left Navigation Bar
  baseurl               : "" # The base URL where your book will be hosted. Used for creating image previews and social
  links. e.g.: https://mypage.com/mybook/
  comment              : false
  utterances           : false

#####
# LaTeX-specific settings
latex:
  latex_engine : pdflatex # one of 'pdflatex', 'xelatex' (recommended for unicode), 'lualatex', 'platex', 'uplax'
```

<https://jupyterbook.org/customize/config.html>



# your Jupyter Book ...



The Turing Way

🔍 Search this book...

Welcome

Reproducibility Guide

Visit our [GitHub Repository](#)

This book is powered by [Jupyter Book](#)



## Welcome

*The Turing Way* is an open source community-driven guide to reproducible, ethical, inclusive and collaborative data science.

Our goal is to provide all the information that data scientists in academia, industry, government and in the third sector need at the start of their projects to ensure that they are easy to reproduce and reuse at the end.

The book started as a guide for reproducibility, covering version control, testing, and continuous integration. But technical skills are just one aspect of making data science research "open for all".

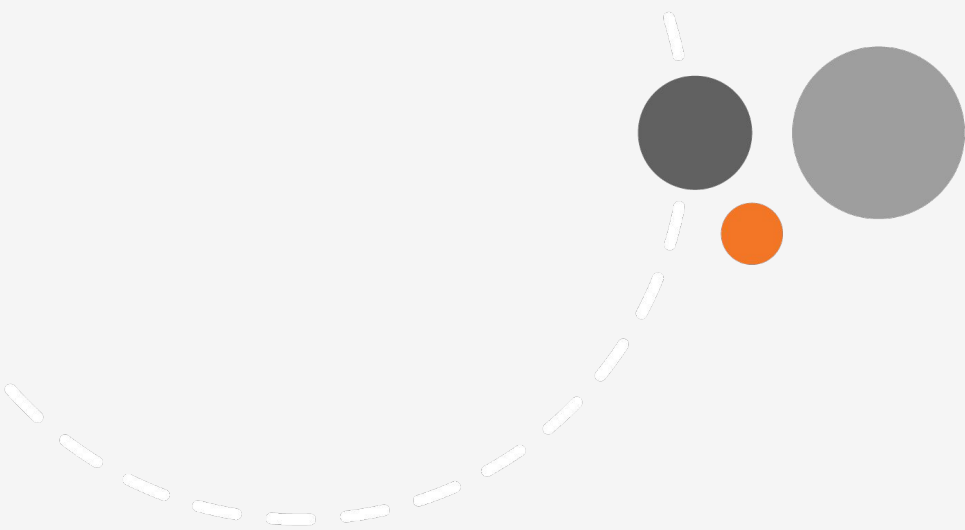
In February 2020, *The Turing Way* expanded to a series of books covering reproducible research, project design, communication, collaboration, and ethical research.

☰ Contents

Our community

Citing *The Turing Way*





**see you in *module 5!***