2020

jupyterCON

*module 3:*

# Jupyter Book set-up

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#JupyterCon2020

# so far you have seen ...

- how to set-up your computational environment to start building a Jupyter Book (*module 1*)

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- how to set-up your computational environment to start building a Jupyter Book (*module 1*)
- understand what Jupyter Book is, and its advantages (jupyterbook.org and *module 2*)

## so far you have seen ...

- how to set-up your computational environment to start building a Jupyter Book (*module 1*)
- understand what Jupyter Book is, and its advantages (*module 2*)
- be familiar with *The Turing Way* book and its deployment using Jupyter Book (*module 2*)

# learning objectives of *module 3*

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- get familiar with the files used in this tutorial

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- explain the minimal and important components of a Jupyter Book

# learning objectives of *module 3*

- get familiar with the files used in this tutorial
- explain the minimal and important components of a Jupyter Book
- build a basic version of a Jupyter Book using examples of *The Turing Way*

# to build a Jupyter Book you need...

# to build a Jupyter Book you need...

- some content

# to build a Jupyter Book you need...

- some content

```
1 !ls ../content
```

```
demo.ipynb          open                    reproducible-research.md
demo_2.ipynb        overview                welcome.md
figures             references.bib
```

# to build a Jupyter Book you need...

- a special folder

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- a special folder

```
1 !mkdir ../book/
```

# to build a Jupyter Book you need...

- some structure

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- some structure
  - defined by a Table of Contents (TOC)

# to build a Jupyter Book you need...

- some structure
  - defined by a `_toc.yml`

```yaml
- file: welcome
- file: reproducible-research
  title: Reproducibility Guide
  sections:
    - file: overview/overview
      title: Overview
      sections:
      - file: overview/overview-definitions
        title: Definitions
      - file: overview/overview-benefit
        title: Benefits
      - file: overview/overview-resources
        title: Resources
    - file: open/open
      title: Open Research
      sections:
      - file: open/open-data
        title: Open Data
      - file: open/open-source
        title: Open Source
      - file: open/open-hardware
        title: Open Hardware
      - file: open/open-access
        title: Open Access
      - file: open/open-notebooks
        title: Open Notebooks
      - file: open/open-scholarship
        title: Open Scholarship
```

# to build a Jupyter Book you need...

- some structure
  - defined by a `_toc.yml`

- path to files
- order
- hierarchy
- other features (e.g. numbering)

```yaml
- file: welcome
- file: reproducible-research
  title: Reproducibility Guide
  sections:
    - file: overview/overview
      title: Overview
      sections:
      - file: overview/overview-definitions
        title: Definitions
      - file: overview/overview-benefit
        title: Benefits
      - file: overview/overview-resources
        title: Resources
    - file: open/open
      title: Open Research
      sections:
      - file: open/open-data
        title: Open Data
      - file: open/open-source
        title: Open Source
      - file: open/open-hardware
        title: Open Hardware
      - file: open/open-access
        title: Open Access
      - file: open/open-notebooks
        title: Open Notebooks
      - file: open/open-scholarship
        title: Open Scholarship
```

# to build a Jupyter Book you need...

```
1 !ls ../book/
```

```
_toc.yml                overview                welcome.md
figures                 references.bib
open                    reproducible-research.md
```

# to build a Jupyter Book you need...

- execute the build command

```
1 !jupyter-book build ../book/
```

# your Jupyter Book

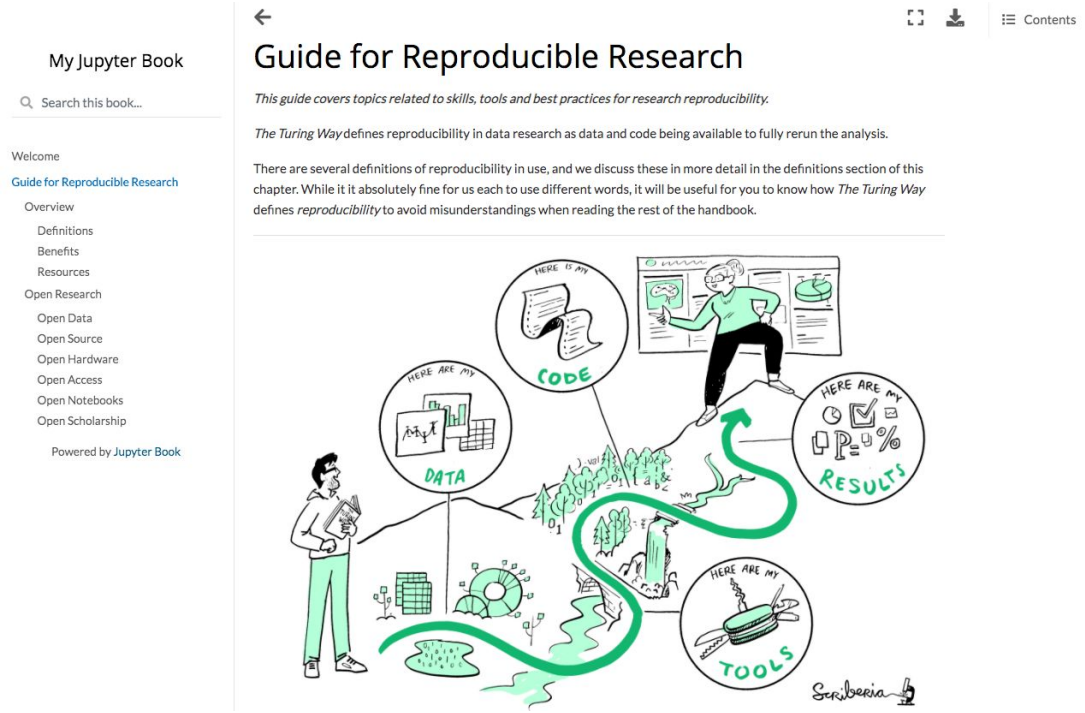
```
1 !ls ../book/
```

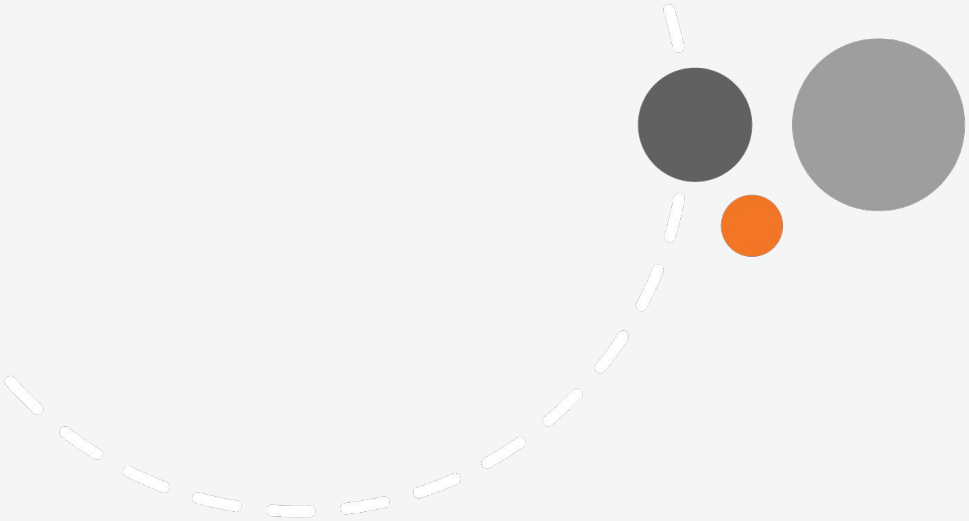
```
_build                  open                    reproducible-research.md
_toc.yml                overview                welcome.md
figures                 references.bib
```

html files

../book/_build/html/index.html

# your Jupyter Book





# see you in *module 4*!