Build Your Book from Jupyter Notebook

1. create virtual env

```
conda create -n pybook python=3.10
conda activate pybook
```

2. Install Jupyter Book

```
pip install -U jupyter-book
```

3. Generate Sample Book

```
jupyter-book create pyspace
```

4. Book structure

```
tree pyspace/
pyspace/
├── _config.yml
├── _toc.yml
├── intro.md
├── logo.png
├── markdown-notebooks.md
├── markdown.md
├── notebooks.ipynb
├── references.bib
└── requirements.txt

0 directories, 9 files
```

5. Build your book

```
jupyter-book build pyspace/


_build/html
├── _sources
│   ├── intro.md
│   ├── markdown-notebooks.ipynb
│   ├── markdown-notebooks.md
│   ├── markdown.md
│   └── notebooks.ipynb
├── _sphinx_design_static
│   ├── design-style.b7bb847fb20b106c3d81b95245e65545.min.css
│   └── design-tabs.js
├── _static
│   ├── basic.css
│   ├── check-solid.svg
│   ├── clipboard.min.js
│   ├── copy-button.svg
│   ├── copybutton.css
│   ├── copybutton.js
```

6. Add your own content
    a. Create a new markdown or jupyter notebook.
    b. Add the new file to `_toc.yml`

```
format: jb-book
root: intro
chapters:
- file: markdown
```

```
  - file: notebooks
  - file: markdown-notebooks
  - file: mymarkdownfile
```

`- file: mymarkdownfile` ^^

c. Build the book again to pick up the changes.

7. Publish your book online

   We will publish our book on Github Pages. Let's start with creating Github repo

   1. initialize your local book folder with git > `git commit`
   2. Commit all the changes
      a. `git add *`
      b. commit the changes `git commit -m 'all the files added'`
   3. Link your Github repo with local book repo
      a. `git remote add origin` `https://github.com/` `<your_repo>`
   4. Push the changes to Github
      a. `git push -u origin main`
   5. Install `ghp-import` > `ghp-import` python module makes it easy to publish on Github Pages.
   6. Run `ghp-import -n -p -f _build/html`
   7. After a couple of minutes, your book will be online. Here is mine > https://afizs.github.io/pyspace/intro.html