

2020

jupyterCON

module 6:

Jupyter Book CI/CD

by Sarah Gibson

@sgibson91

#JupyterCon2020

1

so far you have seen ...

so far you have seen ...

- what Jupyter Book is

so far you have seen ...

- what Jupyter Book is
- how to add content to your Jupyter Book

so far you have seen ...

- what Jupyter Book is
- how to add content to your Jupyter Book
- how to build and publish your Jupyter Book

learning objectives of *module 6*

learning objectives of *module 6*

- become familiar with Continuous Integration and Continuous Deployment and how they are useful for reproducible workflows

learning objectives of *module 6*

- become familiar with Continuous Integration and Continuous Deployment and how they are useful for reproducible workflows
- learn how CI/CD is used when publishing a Jupyter Book

learning objectives of *module 6*

- become familiar with Continuous Integration and Continuous Deployment and how they are useful for reproducible workflows
- learn how CI/CD is used when publishing a Jupyter Book
- learn about GitHub Actions

learning objectives of *module 6*

- become familiar with Continuous Integration and Continuous Deployment and how they are useful for reproducible workflows
- learn how CI/CD is used when publishing a Jupyter Book
- learn about GitHub Actions
- setup a GitHub Action to publish your Jupyter Book

to automate a Jupyter Book you'll need ...

to automate a Jupyter Book you'll need ...

- a GitHub repository containing your Jupyter Book

to automate a Jupyter Book you'll need ...

- a GitHub repository containing your Jupyter Book
 - you can push the files you've been working with to a new repo
or fork the tutorial repo

to automate a Jupyter Book you'll need ...

- a CI vendor

to automate a Jupyter Book you'll need ...

- a CI vendor
 - we will be using GitHub Actions

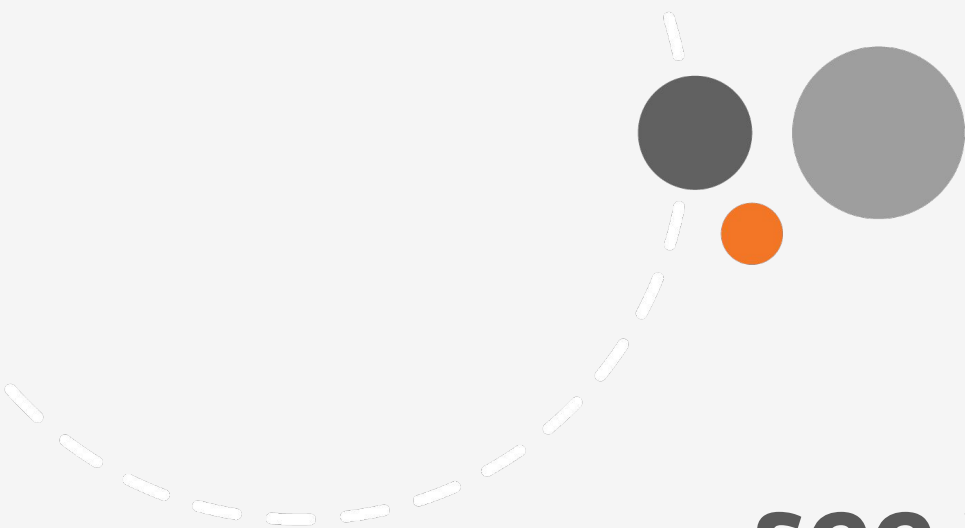
to automate a Jupyter Book you'll need ...

- a workflow file

to automate a Jupyter Book you'll need ...

- a workflow file

```
1  name: CI
2
3  # run on pushes and pull requests to master
4  on:
5    push:
6      branches:
7        - master
8    pull_request:
9      branches:
10       - master
11
12 # run job
13 jobs:
14   build-jb-and-check-links:
15     runs-on: ubuntu-latest
16     steps:
17       - name: Checkout-repository
18         uses: actions/checkout@v2
19       - name: Setup Python 3.7
20         uses: actions/setup-python@v1
21         with:
22           python-version: 3.7
23       - name: Install dependencies
24         run: |
25           python -m pip install --upgrade pip setuptools wheel
26           pip install -r ./book/website/requirements.txt
27       - name: Build Jupyter-Book
28         run: |
29           cd ./book/website
30           jupyter-book build .
31       - name: Run html proofer
32         uses: chabad360/htmlproofer@master
33         with:
34           directory: "./book/website/_build/html"
35           arguments: --assume-extension --disable-external --only_4xx
36           continue-on-error: true
```



see you in *module 7!*