

GitHub Pages and Actions

Once your content is on GitHub, you can easily host it as a [GitHub Pages](#) website. This is a service where GitHub hosts your static files as if they were a standalone website. The quickest way to get started with Jupyter Book on GitHub Pages is to use GitHub Actions to deploy the built HTML files.

[GitHub Actions](#) is a tool that allows you to automate things on GitHub. It is used for a variety of things, such as testing, publishing packages and continuous integration.

Note that if you're not hosting your book on GitHub, or if you'd like another, user-friendly service to build it automatically, see the [guide to publishing your book on Netlify](#).

Note

You should be familiar with GitHub Actions before using them to automatically host your Jupyter Books. [See the GitHub Actions documentation](#) for more information.

To build your book with GitHub Actions, you'll first need to enable GitHub pages for your project. The GitHub Pages settings for a repository can be found at [Settings](#) -> [Pages](#), where [Source](#) should be set to [GitHub Actions](#).

Build and deployment

Source

GitHub Actions ▾ [Send feedback](#)

✓ GitHub Actions Beta

Best for using frameworks and customizing your build process

Deploy from a branch

Classic Pages experience

dependencies preinstalled.

Configure

or [create your own](#).

Static HTML

By GitHub Actions

Deploy static files in a repository without a build.

Configure

Next, you'll need to setup a workflow that does the following things:

- Activates when a *push* event happens on [master](#) (or whichever) branch has your latest book content.
- Installs Jupyter Book and any dependencies needed to build your book.
- Builds your book's HTML.
- Uses the [actions/deploy-pages](#) action to upload that HTML to GitHub Pages.

[Back to top](#)

[Skip to main content](#)

💡 Tip

You can use the [Jupyter Book cookiecutter](#) to quickly create a book template that already includes the GitHub Actions workflow file needed to automatically deploy your book to GitHub Pages:

```
jupyter-book create --cookiecutter mybookpath/
```

For more help, see the [Jupyter Book cookiecutter GitHub repository](#), or run:

```
jupyter-book create --help
```

Here is a simple YAML configuration for a Github Action that will publish a Jupyter Book found *in the root of the GitHub repository* to GitHub Pages:

```
name: deploy-book

# Run this when the master or main branch changes
on:
  push:
    branches:
      - master
      - main
    # If your git repository has the Jupyter Book within some-subfolder next to
    # unrelated files, you can make this run only if a file within that specific
    # folder has been modified.
    #
    # paths:
    # - some-subfolder/**

# This job installs dependencies, builds the book, and pushes it to `gh-pages`
jobs:
  deploy-book:
    runs-on: ubuntu-latest
    permissions:
      pages: write
      id-token: write
    steps:
      - uses: actions/checkout@v3

      # Install dependencies
      - name: Set up Python 3.11
        uses: actions/setup-python@v4
        with:
          python-version: 3.11

      - name: Install dependencies
        run: |
          pip install -r requirements.txt

      # (optional) Cache your executed notebooks between runs
      # if you have config:
      # execute:
      #   execute_notebooks: cache
      - name: cache executed notebooks
        uses: actions/cache@v3
        with:
          path: _build/.jupyter_cache
          key: jupyter-book-cache-${{ hashFiles('requirements.txt') }}

      # Build the book
      - name: Build the book
        run: |
          jupyter-book build .

      # Upload the book's HTML as an artifact
```

[Skip to main content](#)

```
with:
  path: "_build/html"

# Deploy the book's HTML to GitHub Pages
- name: Deploy to GitHub Pages
  id: deployment
  uses: actions/deploy-pages@v2
```

For more information on GitHub Pages, such as configuring custom domains, visit the [GitHub Pages documentation](#).

< Previous
[Publish your book on the internet](#)

Next >
[Netlify](#)