



```
##### ## Build
and Deploy Hugo Website to GitHub Pages ## Author: Jérémie Lumbroso
<lumbroso@seas.upenn.edu> ## Date: 2024-02-24
##### name: 📁
Build and Deploy GitHub Pages on: push: branches: - main # Set a branch to deploy jobs:
deploy: runs-on: ubuntu-22.04 steps: - name: 📦 Check Out Source Repository uses:
actions/checkout@v3.5.1 with: submodules: true # Fetch Hugo themes (true OR recursive)
fetch-depth: 0 # Fetch all history for .GitInfo and .Lastmod - name: 🏗 Initialize Hugo
Environment uses: peaceiris/actions-hugo@v2.6.0 with: hugo-version: "0.123.4" extended:
true - name: 📦 Compile Hugo Static Files run: hugo -D --gc --minify - name: 🚀 Publish to
GitHub Pages uses: peaceiris/actions-gh-pages@v3.9.3 with: github_token: ${{
secrets.GITHUB_TOKEN }} publish_branch: gh-pages user_name: "github-actions[bot]"
user_email: "github-actions[bot]@users.noreply.github.com" ## NOTE: uncomment below if
using a custom domain ## cname: mydomain.com

explain each line
```

I'll explain each line of your GitHub Actions workflow file for building and deploying a Hugo website to GitHub Pages.

yaml

Copy

```
# Build and Deploy Hugo Website to GitHub Pages
# Author: Jérémie Lumbroso <lumbroso@seas.upenn.edu>
# Date: 2024-02-24
```

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```
name: 📁 Build and Deploy GitHub Pages
```

This names the GitHub Actions workflow. The name will appear in the Actions tab of your repository.

yaml

```
on:
  push:
    branches:
      - main
```

This section defines when the workflow will run. It triggers whenever code is pushed to the `main` branch.

yaml

```
jobs:
  deploy:
    runs-on: ubuntu-22.04
```

This defines a job named `deploy` that will run on an Ubuntu 22.04 virtual machine provided by GitHub.

yaml

```
steps:
```

This starts the list of steps that will be executed as part of the job.

yaml

```
- name: 📦 Check Out Source Repository
  uses: actions/checkout@v3.5.1
  with:
    submodules: true # Fetch Hugo themes (true OR recursive)
    fetch-depth: 0 # Fetch all history for .GitInfo and .Lastmod
```

This step checks out your repository code. It uses the `actions/checkout@v3.5.1` action with two options:

- `submodules: true` pulls in any Git submodules (commonly used for Hugo themes)
- `fetch-depth: 0` fetches the complete Git history, which Hugo can use for its `.GitInfo` and `.Lastmod` features

yaml

```
- name: 🚀 Initialize Hugo Environment
  uses: peaceiris/actions-hugo@v2.6.0
  with:
    hugo-version: "0.123.4"
    extended: true
```

This step sets up Hugo using the `peaceiris/actions-hugo` action. It:

- Installs Hugo version 0.123.4
- Uses the "extended" version of Hugo which supports additional features like Sass/SCSS processing

yaml

```
- name: 📁 Compile Hugo Static Files
  run: hugo -D --gc --minify
```

This step builds your Hugo site with the following flags:

- `-D` includes draft content
- `--gc` runs garbage collection during the build
- `--minify` compresses the output files

yaml

```
- name: 🚀 Publish to GitHub Pages
  uses: peaceiris/actions-gh-pages@v3.9.3
  with:
    github_token: ${{ secrets.GITHUB_TOKEN }}
    publish_branch: gh-pages
    user_name: "github-actions[bot]"
    user_email: "github-actions[bot]@users.noreply.github.com"
```

This step deploys the built site to GitHub Pages using the `peaceiris/actions-gh-pages` action:

- `github_token` uses an automatically provided token for authentication
- `publish_branch` specifies that the site will be published to the `gh-pages` branch
- `user_name` and `user_email` set the Git commit author to the GitHub Actions bot

yaml

```
# NOTE: uncomment below if using a custom domain
# cname: mydomain.com
```

This commented section contains an option to set a custom domain for your GitHub Pages site. You would uncomment and modify this if you want to use a custom domain instead of the default `username.github.io` domain.

ⓘ Claude does not have the ability to run the code it generates yet.

📄 🌟 🗨️ Retry ▾



Claude can make mistakes. Please double-check responses.