

```
#####
## Build and Deploy Hugo Website to GitHub Pages
## Author: Jérémie Lombroso <lombroso@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: "0.144.1"
          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
      ## name: 🌐 Custom Domain Setup
```

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Claude 3.5 Sonnet Choose style

This is a GitHub Actions workflow file that automates the process of building and deploying a Hugo website to GitHub Pages. Let me explain it line by line:

yaml#####
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These are comment lines that document the purpose of the file, the author, and the date it was created.

yamlname: 🚀 Build and Deploy GitHub Pages

This sets the name of the workflow, which will appear in the GitHub Actions interface.

yamlon:
 push:
 branches:
 - main # Set a branch to deploy

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

yamljobs:

This starts the section that defines the jobs to be executed in this workflow.

yamldeploy:

This defines a job named "deploy".

yamlruns-on: ubuntu-22.04

This specifies that the job will run on an Ubuntu 22.04 virtual machine.

yamlsteps:

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

yaml- name: 📄 Check Out Source Repository
 uses: actions/checkout@v3.5.1

This step checks out your repository code using the `actions/checkout` action at version 3.5.1.

yamlwith:
 submodules: true # Fetch Hugo themes (true OR recursive)

```
fetch-depth: 0 # fetch all history for submodules and actions
```

This configures the checkout action to also fetch submodules (often used for Hugo themes) and the complete Git history.

```
yaml
- name: 🚀 Initialize Hugo Environment
  uses: peaceiris/actions-hugo@2.6.0
```

This step sets up Hugo using the `peaceiris/actions-hugo` action at version 2.6.0.

```
yaml
  with:
    hugo-version: "0.144.1"
    extended: true
```

This configures the Hugo setup to use version 0.144.1 and enables the extended version which supports SCSS processing.

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

This step runs the Hugo command to build the website:

- `-D` includes draft content
- `--gc` runs garbage collection during the build
- `--minify` compresses the output HTML, CSS, JS, etc.

```
yaml
- name: 🚀 Publish to GitHub Pages
  uses: peaceiris/actions-gh-pages@v3.9.3
```

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

```
yaml
  with:
    github_token: ${ secrets.GITHUB_TOKEN }
```

This provides the GitHub token needed for deployment authentication. This token is automatically created by GitHub Actions.

```
yaml
  publish_branch: gh-pages
```

This specifies that the compiled site should be pushed to the `gh-pages` branch, which GitHub will use to serve the website.

```
yaml
  user_name: "github-actions[bot]"
  user_email: "github-actions[bot]@users.noreply.github.com"
```

These lines set the Git commit author for the deployment commits.

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

This is a commented section with instructions for setting up a custom domain. If you want to use a custom domain instead of the default `username.github.io`, you would uncomment the `cname` line and set your domain.

📄 📌 🔄 Retry



Claude can make mistakes. Please double-check responses.