

GitHub Actions Workflow for Deploying Hugo Website to GitHub Pages

 claude.ai/chat/ee1813ef-55d5-4fc9-aace-5598403f2606



BY ANTHROPIC

I'll break down this GitHub Actions workflow file line by line:

yaml

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

These are comment lines that provide information about the file's purpose, author, and creation date.

yaml

name: 🏗️ Build and Deploy GitHub Pages

Defines the name of the workflow as displayed in the GitHub Actions tab.

yaml

```
on:
  push:
    branches:
      - main # Set a branch to deploy
```

Specifies when the workflow should run - in this case, it triggers whenever code is pushed to the "main" branch.

yaml

jobs:

Begins the section that defines the jobs that will run in this workflow.

yaml

deploy:

Defines a job named "deploy".

yaml

```
runs-on: ubuntu-22.04
```


Specifies that this job will run on a GitHub-hosted runner using Ubuntu 22.04.

yaml

```
steps:
```

Begins the list of steps that will execute as part of the job.

yaml

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

First step - checks out the repository code using version 3.5.1 of the checkout action.

yaml

```
  with:  
    submodules: true # Fetch Hugo themes (true OR recursive)  
    fetch-depth: 0 # Fetch all history for .GitInfo and .Lastmod
```

Configuration options for the checkout action: includes Git submodules (often used for Hugo themes) and fetches the complete Git history.

yaml

```
- name: 🛠 Initialize Hugo Environment
  uses: peaceiris/actions-hugo@v2.6.0
```

Second step - sets up Hugo using a community action.

yaml

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

Specifies Hugo version 0.144.1 and uses the extended edition, which includes additional features like Sass/SCSS processing.

yaml

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

Third step - runs the Hugo command to build the website with these flags:

- `-D`: Include draft content
- `--gc`: Run garbage collection during build
- `--minify`: Minify output (HTML, CSS, JS, XML, JSON) to reduce file sizes

yaml

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

Final step - deploys the built site to GitHub Pages using another community action.

yaml

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

Uses the automatically provided GitHub token for authentication.

yaml

```
publish_branch: gh-pages
```

Specifies that the built site should be published to the "gh-pages" branch.

yaml

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

Sets the Git user name and email for the commit to the gh-pages branch.

yaml

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

A commented-out configuration option that would add a CNAME file for custom domain setup if uncommented.

This workflow automates the process of building a Hugo website and deploying it to GitHub Pages whenever changes are pushed to the main branch.



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