## **Automating Hugo Website Deployment to GitHub Pages**



**claude.ai**/chat/ff75df82-4b91-4117-a799-4acd7e5d1551



## BY ANTHROP\C

I'll explain this GitHub Actions workflow file line by line. This file automates the process of building and deploying a Hugo website to GitHub Pages.

yaml

## Build and Deploy Hugo Website to GitHub Pages

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## Date: 2024-02-24

These are comment lines that document the purpose, author, and date of the workflow file.

```
yaml
```

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

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

```
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```

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

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

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

Here we define a job named "deploy" that will run on Ubuntu 22.04.

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The first step checks out your repository code with the actions/checkout action (version 3.5.1). It includes submodules (often necessary for Hugo themes) and fetches the complete Git history.

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```
- name: X Initialize Hugo Environment
uses: peaceiris/actions-hugo@v2.6.0
with:
   hugo-version: "0.144.1"
   extended: true
```

This step sets up Hugo using the peaceiris/actions-hugo action (version 2.6.0). It specifically installs Hugo version 0.144.1 with the extended version, which supports Sass/SCSS processing.

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

This step runs the Hugo command to build your site:

- -D includes draft posts
- --gc runs garbage collection during the build
- --minify compresses HTML, CSS, JS, JSON, and XML 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"
```

The final step deploys your built site to GitHub Pages using the <a href="peaceiris/actions-gh-pages">peaceiris/actions-gh-pages</a> action (version 3.9.3):

- It uses the automatically provided **GITHUB\_TOKEN** secret for authentication
- Publishes to the gh-pages branch
- Sets the Git user name and email for the commit to the GitHub Actions bot

yaml

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

This commented section shows how to set up a custom domain for your GitHub Pages site. If you want to use a custom domain, you would uncomment the <a href="main.com">cname</a> line and replace <a href="mydomain.com">mydomain.com</a> with your domain.

In summary, this workflow automatically builds your Hugo website and deploys it to GitHub Pages whenever you push changes to the main branch of your repository.

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