

yaml
deploy:

This defines a job named "deploy".

yaml runs-on: ubuntu-22.04

This job will run on an Ubuntu 22.04 virtual machine provided by GitHub.

yaml

steps:

This begins the list of steps that will be executed in sequence for this job.

yaml

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

The first step, named with an emoji and description, uses the checkout action (version 3.5.1) to clone the repository into the runner.

yaml

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

Configuration for the checkout action:

- submodules: true ensures that any Git submodules (often used for Hugo themes) are also checked out
- fetch-depth: 0 fetches the entire Git history, which Hugo uses for its .GitInfo and .Lastmod variables

yaml

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

This step uses the $\frac{\text{peaceiris/actions-hugo}}{\text{action}}$ action (version 2.6.0) to set up Hugo in the runner environment.

yaml

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

Configuration for the Hugo setup:

- Specifies exactly which Hugo version to use (0.144.1)
- Uses the "extended" version of Hugo which includes additional features like Sass/SCSS processing

vaml

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

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

- -D includes draft content
- ullet —gc performs garbage collection during build
- --minify compresses the HTML, CSS, JS, JSON, and XML files

yaml

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

This step uses the peaceiris/actions-gh-pages action (version 3.9.3) to deploy the generated site to GitHub Pages.

yaml

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

Uses the automatically provided GitHub token for authentication.

Specifies that the built website should be pushed to the $\ensuremath{\,{\sf gh-pages}\,}$ branch, which GitHub can serve as a static website.

yaml

Sets the Git committer identity to the GitHub Actions bot.

yaml

A commented-out option that would set a custom domain for your GitHub Pages site if uncommented.

 $\ensuremath{\mbox{\ensuremath}\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath}\ens$



AB Why are the emojis used in this?

The emojis in this GitHub Actions workflow file are used for visual clarity and improved readability. They serve several practical purposes:

- 1. Visual differentiation: Each step in the workflow has a distinct emoji that helps you quickly identify what that step does at a glance 🕝 for checkout, 🏋 for setup, 📜 for build, # for deployment).
- $2. \ \textbf{Quick scanning} : When looking at logs or the GitHub Actions UI, the emojis make it \\$ easier to scan through and find specific steps without having to read all the text.
- 3. Semantic meaning: Each emoji conveys the purpose of the step for example, the rocket (*) intuitively represents deployment/publishing.
- 4. Modernized documentation: It's becoming a common practice in DevOps and developer tooling to use emojis to make technical documentation more approachable and less intimidating.
- 5. **Consistent with GitHub culture**: GitHub itself uses emojis extensively in its interface (for reactions, labels, etc.), so this styling aligns with the platform's conventions.

This approach is purely stylistic and doesn't affect the functionality of the workflow, but it does make the configuration more user-friendly, especially for teams that might include members with varying levels of technical expertise.



