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ChatGPT

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explain this file line by line:  
#####  
#####  
  
## 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

Ask anything

+

Search

Reason

ChatGPT can make mistakes. Check important info.

with:  
  
↓  
submodules: true # Fetch Hugo themes (true OR recursive)

Ask anything

+

Search

Reason

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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]"


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user\_email: "github-  
actions[bot]@users.noreply.github.com"



## NOTE: uncomment below if using a custom domain

Ask anything

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breakdown:

## Header Section

```
yaml

#####

## Build and Deploy Hugo Website to GitHub Pages

## Author: Jérémie Lumbroso <lumbroso@seas.upenn.edu>


## Date: 2024-02-24

#####
```

- This is a comment block that provides metadata about the workflow.
- It states the purpose: **Building and deploying a Hugo website**.
- The author and date of creation are noted.



Ask anything

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- This sets the name of the workflow, which will appear in GitHub's Actions UI.
- The **emoji** is just for readability.

## Trigger Conditions

```
yaml

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

- This defines when the workflow should run.
- It triggers **only** when there is a **push** to the **main** branch.


## Job Definition




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## Runner Selection

yaml

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

- Specifies the **GitHub-hosted runner**: an **Ubuntu 22.04** virtual machine.

## Steps in the Workflow

### Step 1: Checkout the Repository

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
```

Ask anything

  Search  Reason



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`.Lastmod` functions in Hugo).

### Step 2: Set Up Hugo

yaml

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

- Uses the **peaceiris/actions-hugo** GitHub Action to install Hugo.
- Specifies Hugo version: `"0.144.1"`.
- `extended: true` allows **extended features**, such as **SCSS/SASS compilation**.

### Step 3: Build the Hugo Site

yaml



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- `--gc` → **Garbage collect** unused files.
- `--minify` → **Minify** HTML, CSS, and JS for better performance.

Step 4: Deploy to GitHub Pages

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"
```

- Uses `peaceiris/actions-gh-pages` to deploy the **static site** to the `gh-pages` branch.
- `github_token: ${ secrets.GITHUB_TOKEN }` → Uses GitHub's **built-in authentication**.
- `publish_branch: gh-pages` → Deploys the site to the **gh-pages** branch.
- Sets the Git user as `"github-actions[bot]"`.

Ask anything

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

- If a **custom domain** is used, uncomment and replace `mydomain.com` with the actual domain name.

Summary

This **GitHub Actions workflow** does the following:

- Triggers** when changes are pushed to `main`.
- Checks out** the repository and any submodules (Hugo themes).
- Installs Hugo** with the specified version.
- Builds** the Hugo site with draft content, garbage collection, and minification.
- Deploys** the built site to the `gh-pages` branch using **GitHub Pages**.

Would you like help modifying or extending this workflow? 🚀