GitHub Stats Workflow Documentation

Documentation: GitHub Stats Workflow

This guide explains how to set up and run a GitHub Action workflow that generates custom GitHub stats as an SVG badge using Python.

Prerequisites

- 1. GitHub Account
 - Ensure you have a GitHub account.
- 2. Personal Access Token
 - Generate a token with repo and read:user permissions:
 - Go to GitHub > Settings > Developer Settings > Personal Access Tokens > Tokens (Classic)
 - Click Generate new token, copy and save it.
- 3. Repository Setup
 - Create or use an existing GitHub repository.

__.

Project Structure

.github/

workflows/

update-github-stats.yml # GitHub Actions workflow

assets/

github-stats.svg # Output SVG file

generate_stats.py # Python script to fetch and render stats

Files Overview

- 1. generate_stats.py
- Fetches contribution data from GitHub GraphQL API.
- Calculates total contributions, current streak, and longest streak.
- Renders this information into an SVG file (assets/github-stats.svg).

Key Configurations:

- USERNAME: Set your GitHub username in the script.
- TOKEN: Retrieved securely from GitHub Actions Secrets.
- 2. .github/workflows/update-github-stats.yml
- Defines an automated GitHub Action that runs the script.

Example Workflow:

(See full documentation in repository)

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Setup Steps

- 1 Add Files to Repository
- Place generate stats.py in the root.
- Create folder .github/workflows/ and place update-github-stats.yml inside.
- Create an assets/ folder to store the generated SVG file.
- 2 Configure Secrets
- 1. Go to your repository on GitHub.
- 2. Navigate to Settings > Secrets and variables > Actions > New repository secret.
- 3. Add a new secret:
 - Name: GH TOKEN
 - Value: Your personal access token.
- 3 Update Python Script
- Set your username in generate_stats.py:

USERNAME = "your-github-username"

- 4 Commit and Push
- Commit all files to the repository.
- Push changes to GitHub.
- 5 Trigger Workflow
- The workflow runs automatically every day.
- You can also trigger it manually from the Actions tab in GitHub.

Output

- The script generates assets/github-stats.svg.
- This can be embedded in your README.md like this:

![GitHub Stats](assets/github-stats.svg)

Example Badge My GitHub Stats

Total Contributions: XXXX Current Streak: XX days Longest Streak: XX days