Intro to GitHub

Version control and collaboration platform for developers

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Table of Contents

What is GitHub?

(And why is it useful?)

GitHub is the most popular online repository for open source projects.

It uses **Git**, which is the version control system working in the backgrounf that tracks versions of files.

Developers (and all kinds of creators) use GitHub for:

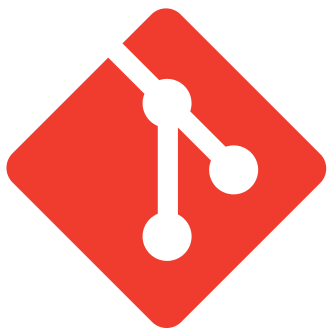
- **Code Hosting**: Store and manage code repositories.
- **Collaboration**: Work with others through pull requests, issues, and code reviews.
- **Version Control**: Track and manage changes to code over time.

Setting Up Software

- Sign up to GitHub with your personal email. https://github.com/signup
- Download GitHub Desktop (available on Windows, Mac and Linux). https://desktop.github.com/download
- Download Git if it isn't automatically installed by the GitHub Destop app. https://git-scm.com/downloads

GitHub

GitHub Desktop



Git

How it Works

- Local files
- Local Git repository
- Online (GitHub) repository
- Commits
- Push and Pull

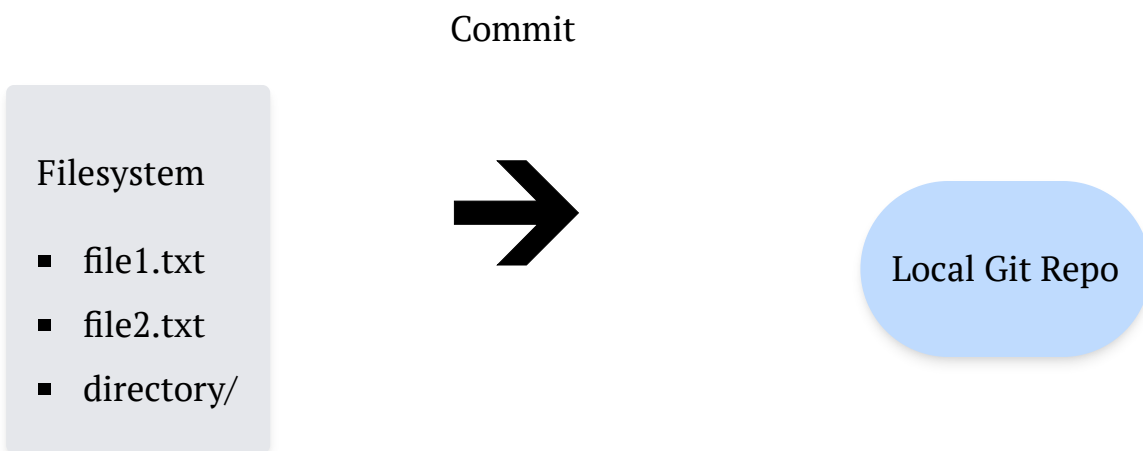
GitHub Workflow

Filesystem

- file1.txt
- file2.txt
- directory/

Local Git Repo

GitHub Workflow



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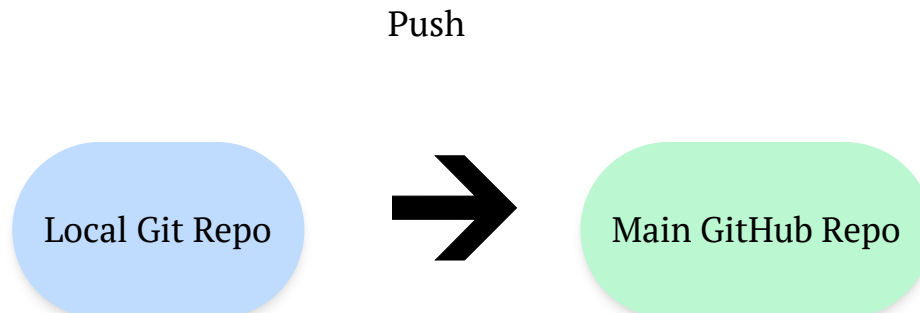

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Local Git Repo

Main GitHub Repo

GitHub Workflow