



Presentation On GitHub

By Monali Lende

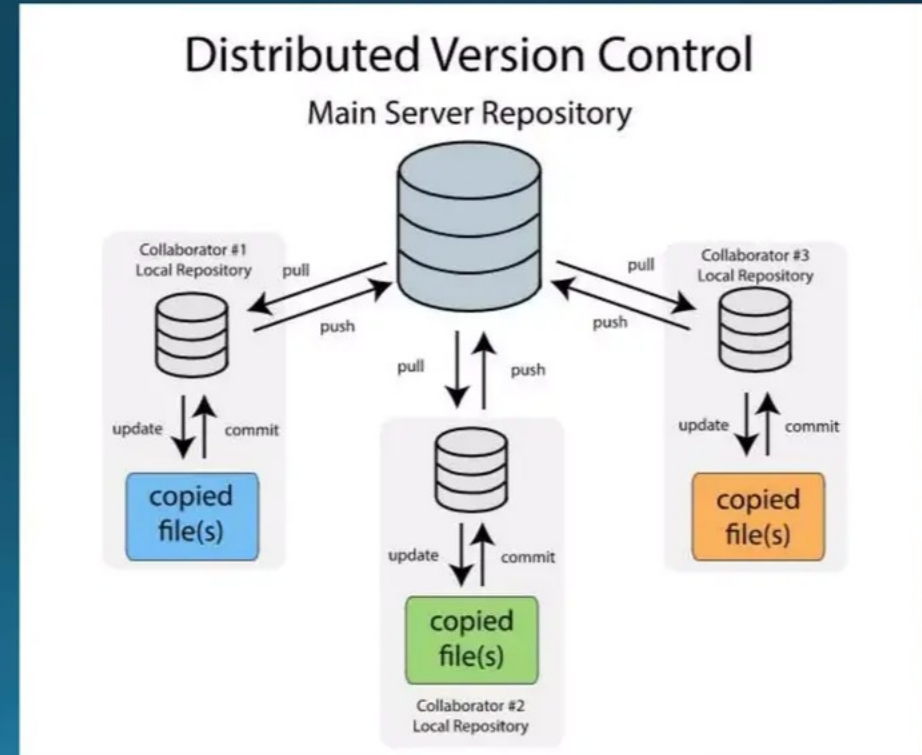
GitHub Logo



What is GitHub?

- Git is a version-control management and collaboration software (since 2005)
 - OS X has git pre-installed
 - Otherwise, install [here](#)
- GitHub (since 2008) is an online application that provides:
 - A visual interface for git
 - Free cloud storage for all your projects' code/files

How does Git(Hub) work?



<https://code.snipcademy.com/tutorials/git/introduction/how-version-control-works>

Why is GitHub useful?

Version control

- No more.... *script*, *script_v2*, *script_v2_10-18* edits, etc.
- Can always go back to any previous version!

Collaboration

- Integrates edits from multiple people
- Keeps record of who did what and when

Documentation

- All scripts in a single place with Readme files

Reproducibility

- You and others can recreate and/or modify an script you created, even many years later

Visibility

- Showcase your work to potential employers / schools
- Promote your lab's achievements and facilitate the use of your pipelines

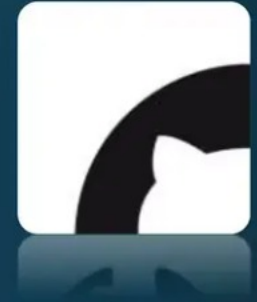


Happy scientists!



GitHub Tutorial

1. Setting up repositories
2. Stage, Commit, Push
3. Other commands





How do I Use a GitHub?

> Using GitHub involves several key steps, and it's a platform commonly used for version control and collaboration on software development projects. Here's a basic guide to help you get started:

1. Create a GitHub Account:

- Go to [GitHub](https://github.com/) and sign up for a new account if you don't have one.

2. Install Git:

- GitHub uses Git for version control. Install Git on your local machine if you haven't already. You can download it from the [official Git website](https://git-scm.com/).

3. Set Up Git:

- Configure Git with your name and email:

```
git config --global user.name "Your Name"  
git config --global user.email "your.email@example.com"
```





4. Create a New Repository:

- On the GitHub website, click the "+" icon in the top right corner and select "New repository."
- Fill in the repository name, description, and other details.
- Optionally, initialize the repository with a README file.

5. *Clone a Repository:

- To work on an existing repository, clone it to your local machine:

```
git clone https://github.com/username/repository.git
```





What are the Benefits of GitHub?

- > **Why use GitHub? There are a number of reasons.. The first is that it enables slick and easy collaboration and version control.**
- > **This allows you to work on code with anyone from anywhere. Additionally, many employers use GitHub.**
- > **So, if you plan on getting a job, you'll look really good if you already know your way around GitHub.**
- > **And don't forget about the connections, learning, and portfolio aspects. GitHub is a robust learning and collaboration platform. Take time to explore it and see just how much it can expand your programming knowledge.**



