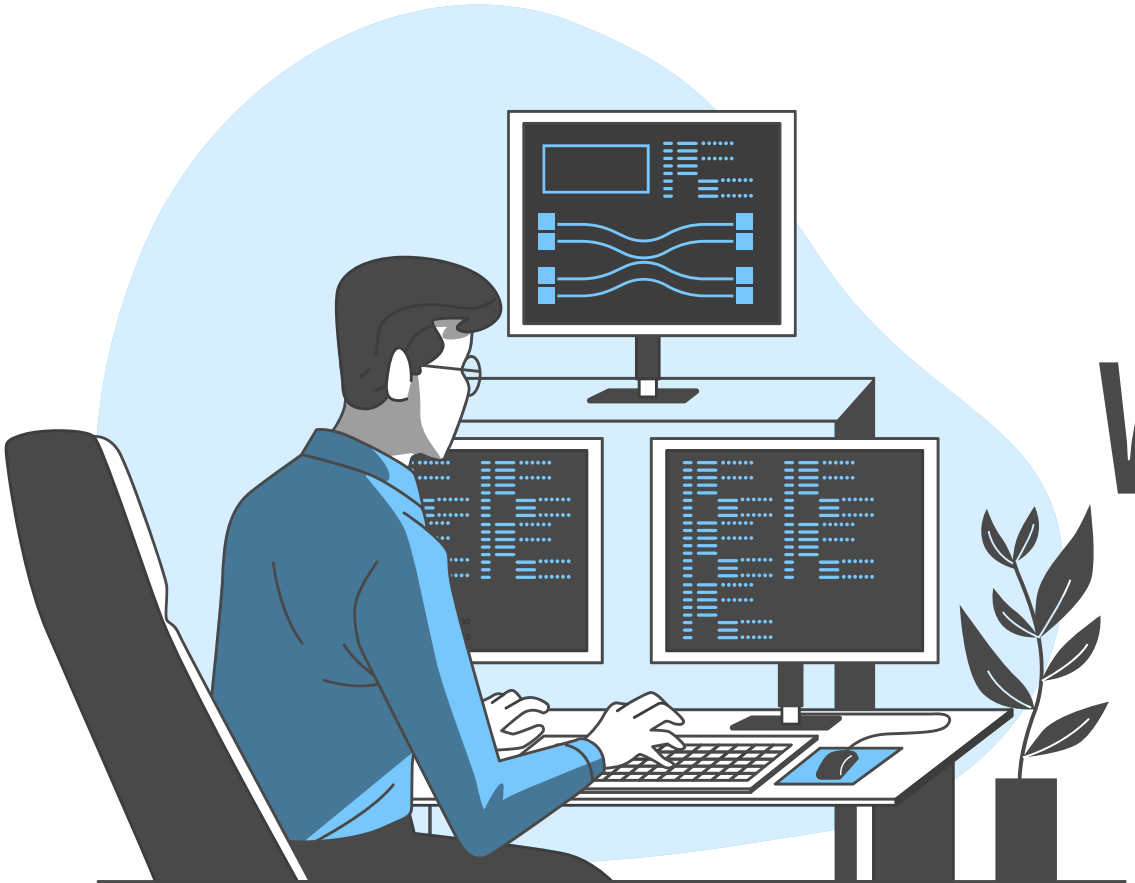


GITHUB Workshop

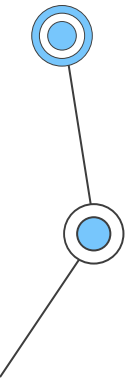
By: May and Sabeer

>/Boston University Chapter/<
girls who code

What is GitHub

1. GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere.

2. GitHub users can create accounts, upload files, and create coding projects. But the real work of GitHub happens when users begin to collaborate.



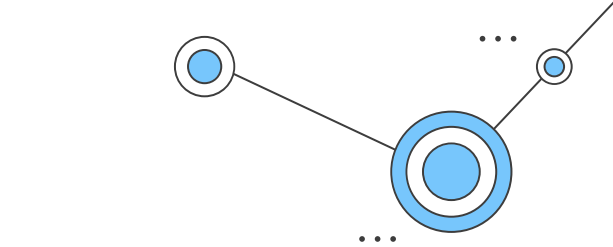
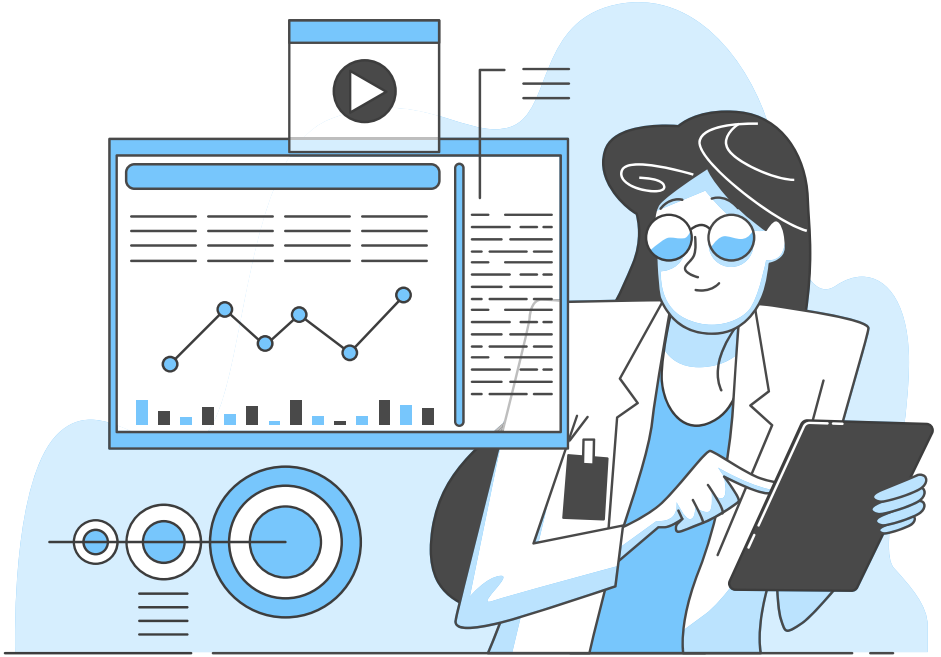


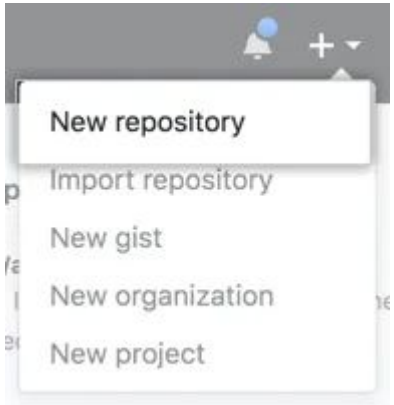
Table of Contents



01
Creating a repo

Creating a repository

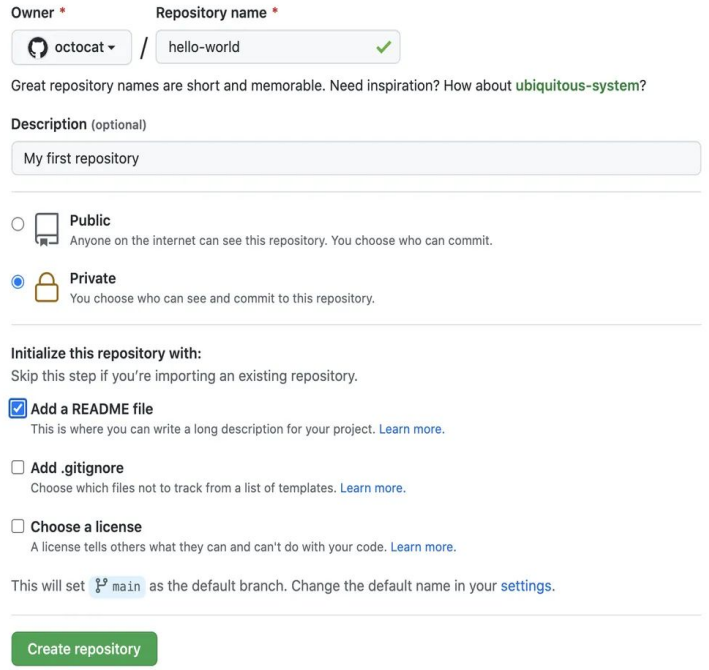
1. In the upper-right corner of any page, use the drop-down menu, and select New repository.



2. Entry the name you want to name your repo in the repository name box. Ex. Group 1 datathon project

3. Select Add a README file

4. Click Create Repository



02

Fork your repo

Fork your Repo

01 Navigate into your group repository

02 In the top-right corner of the page, click Fork

03 Select the owner and branches

04 Click Create Fork

03

Git Clone

Cloning a Repo

- Cloning a repository will enable you to have all of the files in the repository on your local machine so you can modify and add files directly.

- These changes you make won't be live immediately for others to see. You can clone a repository either through VSCode or the terminal

git clone (url)

04
Create branches

Why Branches

- Branches enable collaboration when multiple people work on the same project. Branching allows them to work independently on different parts of the code without interfering with each other's work.

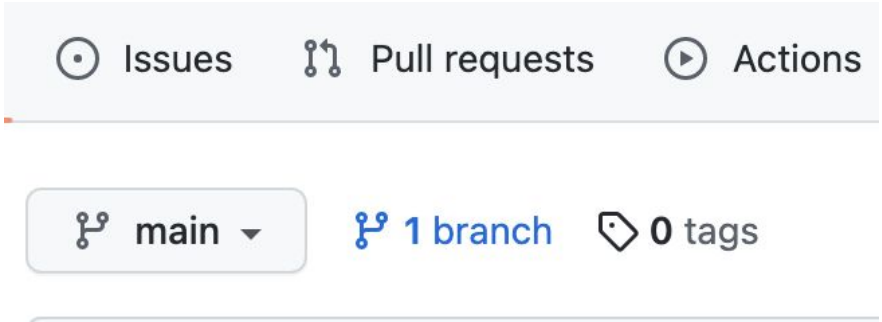
- Branches can be used to experiment with new features or changes to the codebase without affecting the main branch or the production code.

- Branches provide a way to track and manage different versions of the codebase, allowing you to revert to an earlier version of the code if necessary.

Creating branches

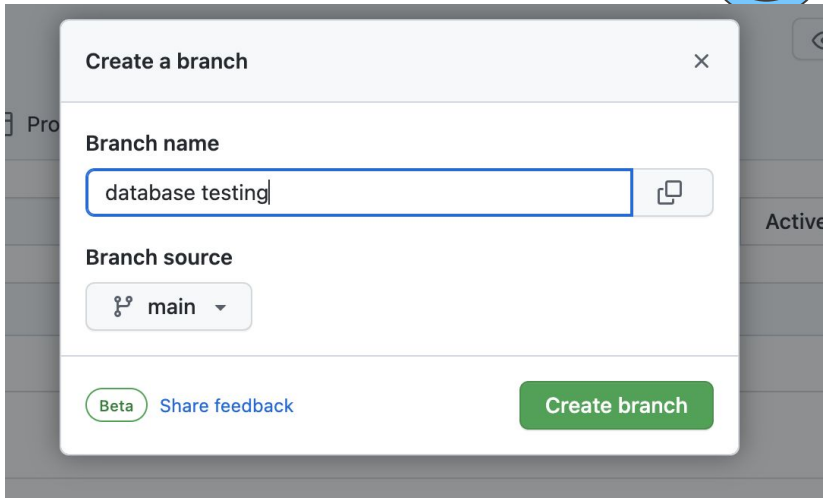
You can create a new branch in your GitHub repository by following these steps:

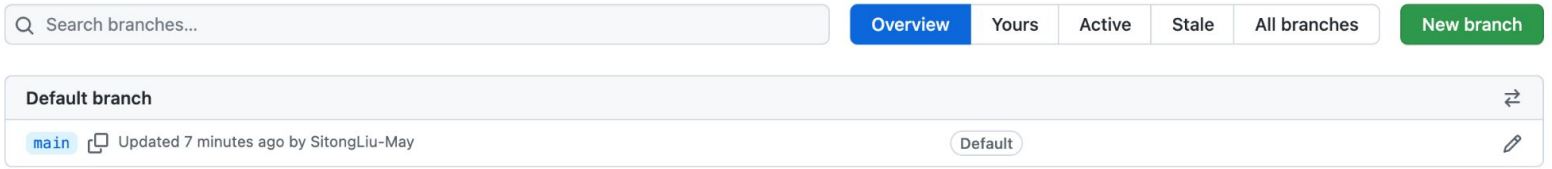
1. Go to your repository on the GitHub website.
2. Click on the branch selector dropdown, which is located at the top left corner of the page.



Creating branches

1. Click new branch
2. Under "Branch name", type a name for the branch.
3. Under "Branch source", choose a source for your branch.
4. If your repository is a fork, select the repository dropdown menu and click your fork or the upstream repository.
5. Select the branch dropdown menu and click a branch.
6. Click Create branch.





05
Git Commands

Git Commands

git pull

Updates your current local working branch with all new commits from the corresponding remote branch on GitHub.

git push

Uploads all local branch commits to the remote.

git merge

Merges your local branch with main for all others to view and modify

06

Questions

Thanks!