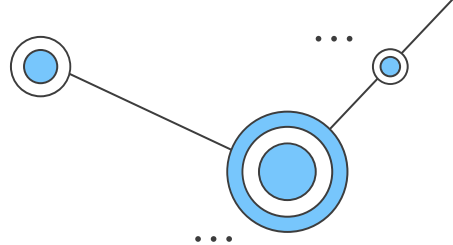


# GITHUB Workshop

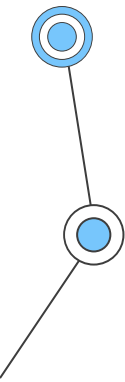
By: May and Sabeer



# 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.



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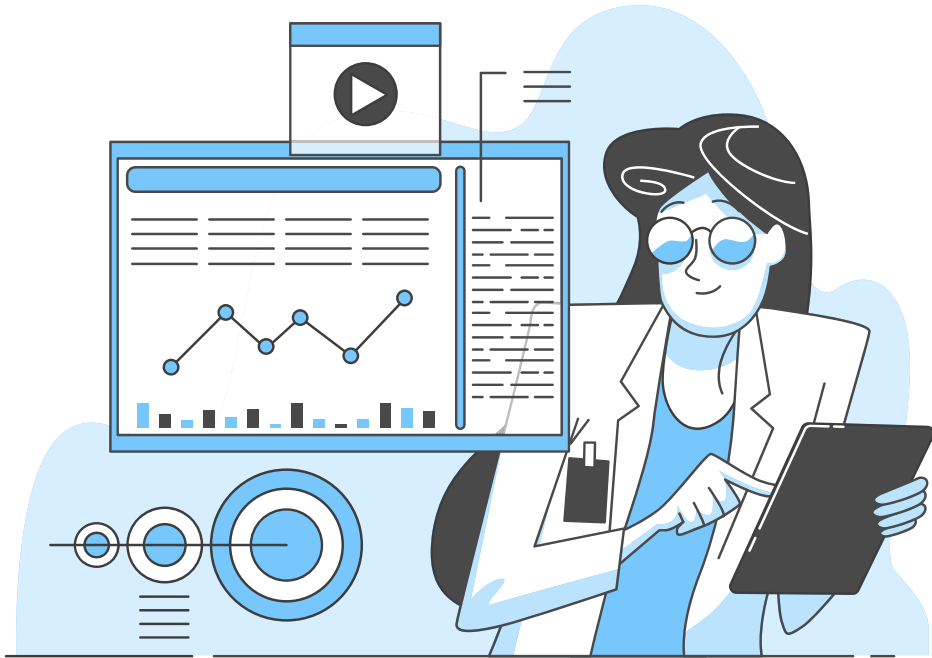
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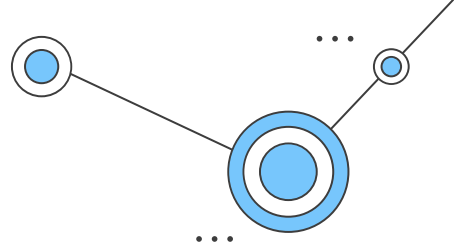
Git Commands



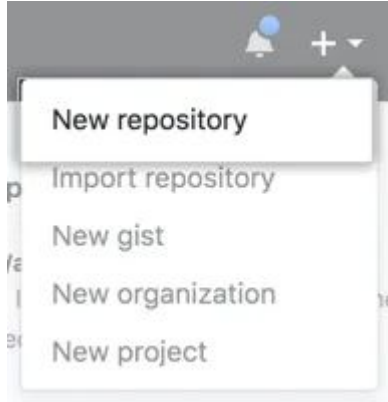
# 01

## 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

Owner \* octocat / Repository name \* hello-world ✓

Great repository names are short and memorable. Need inspiration? How about [ubiquitous-system](#)?

Description (optional)  
My first repository

☐ Public  
Anyone on the internet can see this repository. You choose who can commit.

☒ Private  
You choose who can see and commit to this repository.

Initialize this repository with:  
Skip this step if you're importing an existing repository.

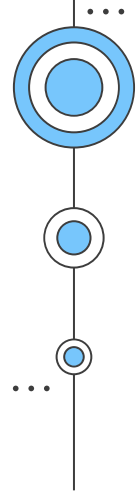
☒ Add a README file  
This is where you can write a long description for your project. [Learn more.](#)

☐ Add .gitignore  
Choose which files not to track from a list of templates. [Learn more.](#)

☐ Choose a license  
A license tells others what they can and can't do with your code. [Learn more.](#)

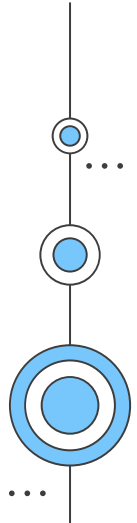
This will set `main` as the default branch. Change the default name in your [settings](#).

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



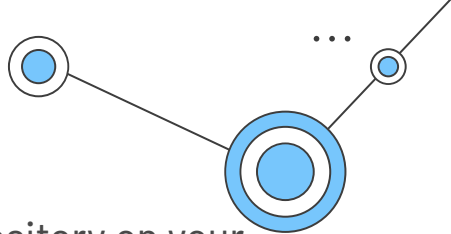
# 03

## Git Clone





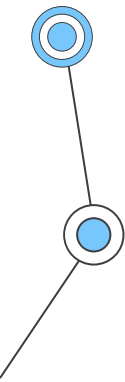
# Cloning a Repo



- 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)`



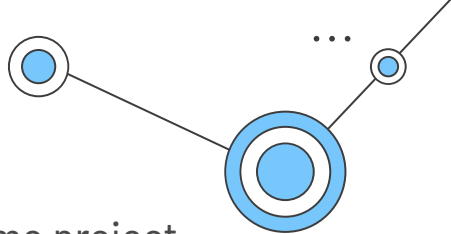


# 04

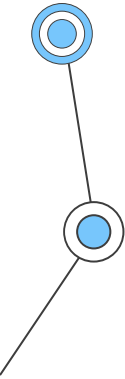
## Create branches



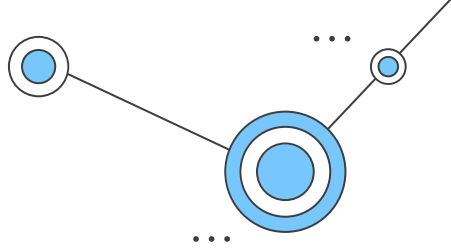
# Why Branches



- 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.

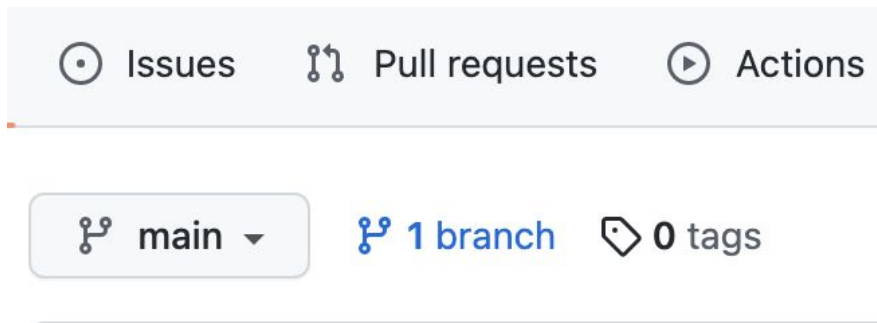


# Creating branches



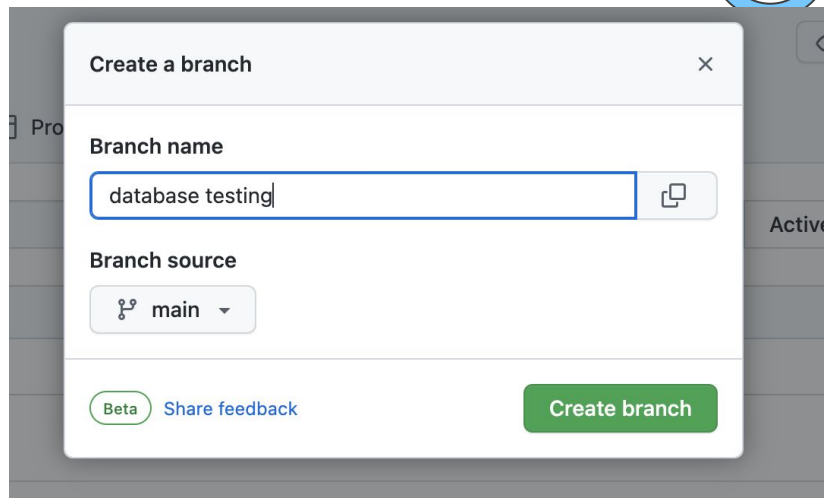
You can create a new branch in your GitHub repository by following these steps:

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.

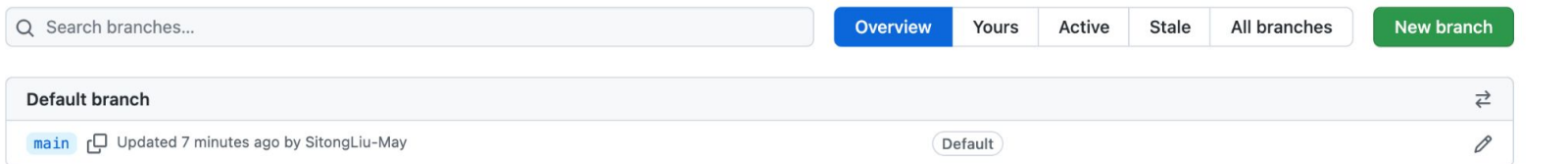


# Creating branches

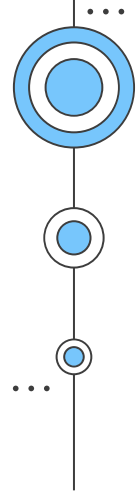
1. Click new branch
2. Under "Branch name", type a name for the branch.
3. Under "Branch source", choose a source for your branch.
4. If your repository is a fork, select the repository dropdown menu and click your fork or the upstream repository.
5. Select the branch dropdown menu and click a branch.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



The screenshot shows a 'Create a branch' dialog box with a close button (X) in the top right corner. It contains two main sections: 'Branch name' and 'Branch source'. The 'Branch name' section has a text input field containing 'database testing' and a copy icon to its right. The 'Branch source' section has a dropdown menu showing 'main' with a fork icon to its left. At the bottom of the dialog, there is a 'Beta' badge, a 'Share feedback' link, and a green 'Create branch' button.



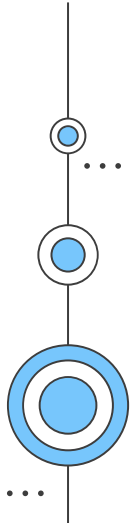
The screenshot shows a branch management interface. At the top, there is a search bar labeled 'Search branches...'. Below it, there are tabs for 'Overview' (selected), 'Yours', 'Active', 'Stale', and 'All branches'. A green 'New branch' button is on the right. The main area shows the 'Default branch' section with a refresh icon. Below this, the 'main' branch is listed as the 'Default' branch, updated 7 minutes ago by SitongLiu-May. There is a copy icon and an edit icon next to the branch name.

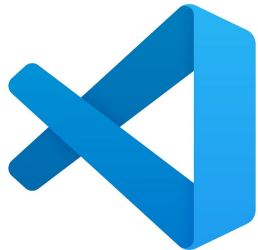


# 05

## Git

### Commands





### git pull

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

# Git Commands



### 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!

