

GITHUB QUICK LEARN

MADE BY ASAD



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

A **repository** is usually used to organize a single project. Repositories can contain folders and files, images, videos, spreadsheets, and data sets -- anything your project needs. Often, repositories include a README file, a file with information about your project.

CREATING A REPOSITORY

- New **repository**
- Repository **name**
- **Description** box
- Select Add a **README** file
- Select **Public** or **Private**
- Click Create repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *

Repository name *

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

Description (optional)

☒ 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.](#)

.gitignore template: **None**

Choose a license

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

License: **None**

☐ You are creating a public repository in your personal account.

Create repository

GIT BASICS

```
git init
```

```
git clone <url>
```

```
git pull
```

```
git add .
```

```
git commit -am "<message>"
```

```
git push
```

```
git status
```

```
git log
```

create new local repository

clone existing remote repository

download & merge commits from remote repository

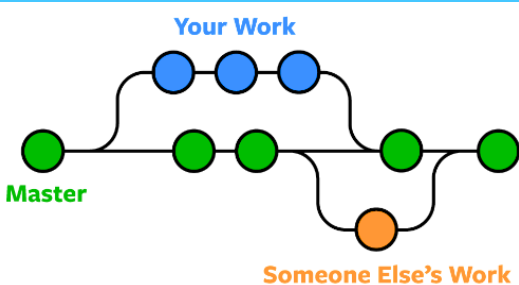
stage all changes

commit staged changes to local repository

push local commits to remote repository

list all new/modified files to be committed

list version history of current branch



CREATING A BRANCH

Branches allow you to develop features, fix bugs, or safely experiment with new ideas in a contained area of your repository

octo-org / octo-repo Private

<> Code Issues 16 Pull requests 18 Discussions Actions Projects 8 Security 3 Insights

main 55 branches 5 tags

Go to file Add file <> Code

Switch branches/tags

readme-edits

Branches Tags

Create branch: readme-edits from 'main'

View all branches

- Click the **Code** tab of your repository
- click the dropdown menu that says **main**
- Type a **branch name**
- **Create branch:** readme-edits from main.

GIT BRANCHES

```
git branch
```

```
git branch <branch-name>
```

```
git cheakout <branch-name>
```

```
git merge <branch-name>
```

list all local branches in current repo

creates new branch

switch to specified branch & update working dir

combine specified branch's history into current br

GIT ADVANCE

```
git fetch <bookmark>
```

```
git merge <bookmark>/<br-name>
```

```
git remote add <alias-n> <url>
```

```
git push<alias> <branch-name>
```

```
git reset <commit>
```

```
git reset --hard <commit>
```

download all history from repo bookmark

merge remort bookmark's br into current local br

add remote repo url as an alias

push local commits to remort repository

undo all commits after <commit>, prevent changes local

discard all history and changes back to the

specified <commit>

OPENING A PULL REQUEST

- **click pull request** find repo
- click **new pull request**
- **easily compare** new or previous work
- create pull req and give title or description of your changes.



MERGE YOUR PULL REQUEST

- **merge pull request** (change in main)
- click **confirm merge**(you will recived message req was merged succesfullly)
- click **delete merge**



made by asad manzoor 2023

Follow me: <https://github.com/asad-manzoor>

Refrence:
<https://docs.github.com/en/get-started/quickstart/hello-world>