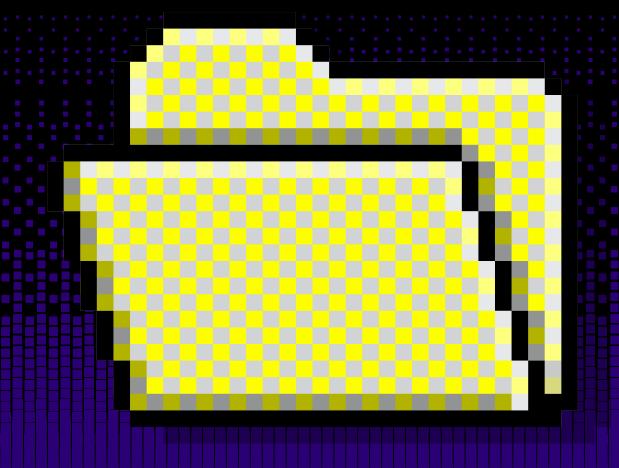
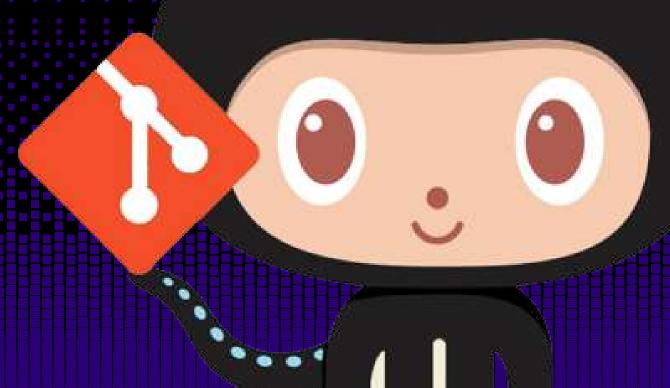


KHARAGPUR OPEN SOURCE SOCIETY

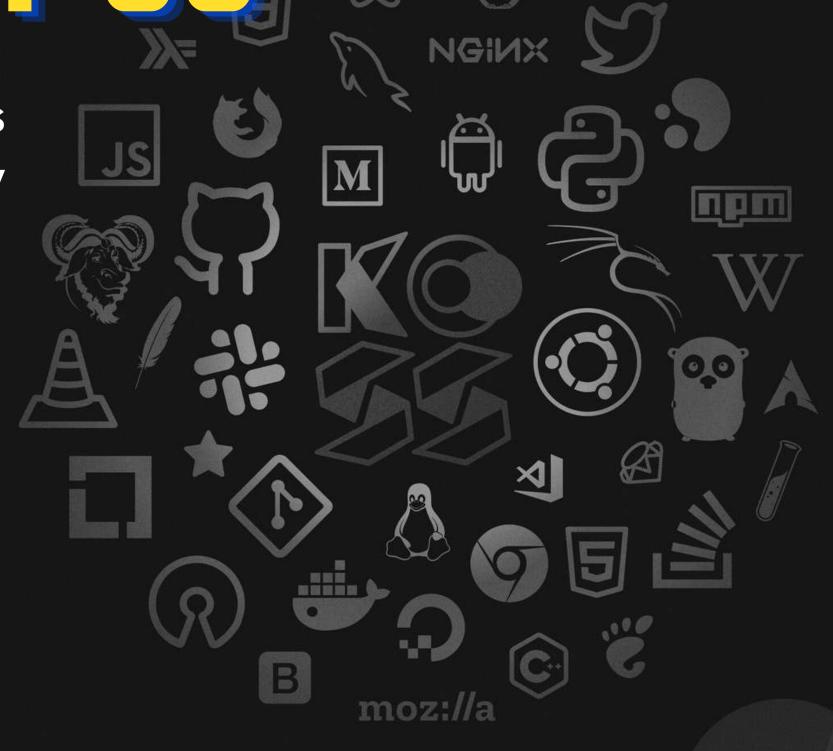


GIT & GITHUB WORKSHOP





We are a group of Open Source Enthusiasts who focus on something more preliminary and relevant, "A Love for Coding". **Every year KOSS plans to hold events for** familiarizing students with UNIX tools, Linux environment, Git Development Workflow, besides conducting workshops on GUI programming, Web development, **Android application Development and** Hackathons.



GIT WORKSHOP

- BASIC LINUX COMMANDS
- VERSION CONTROL SYSTEMS
- WHAT IS GIT?
- GIT WORKFLOW
- GIT COMMANDS

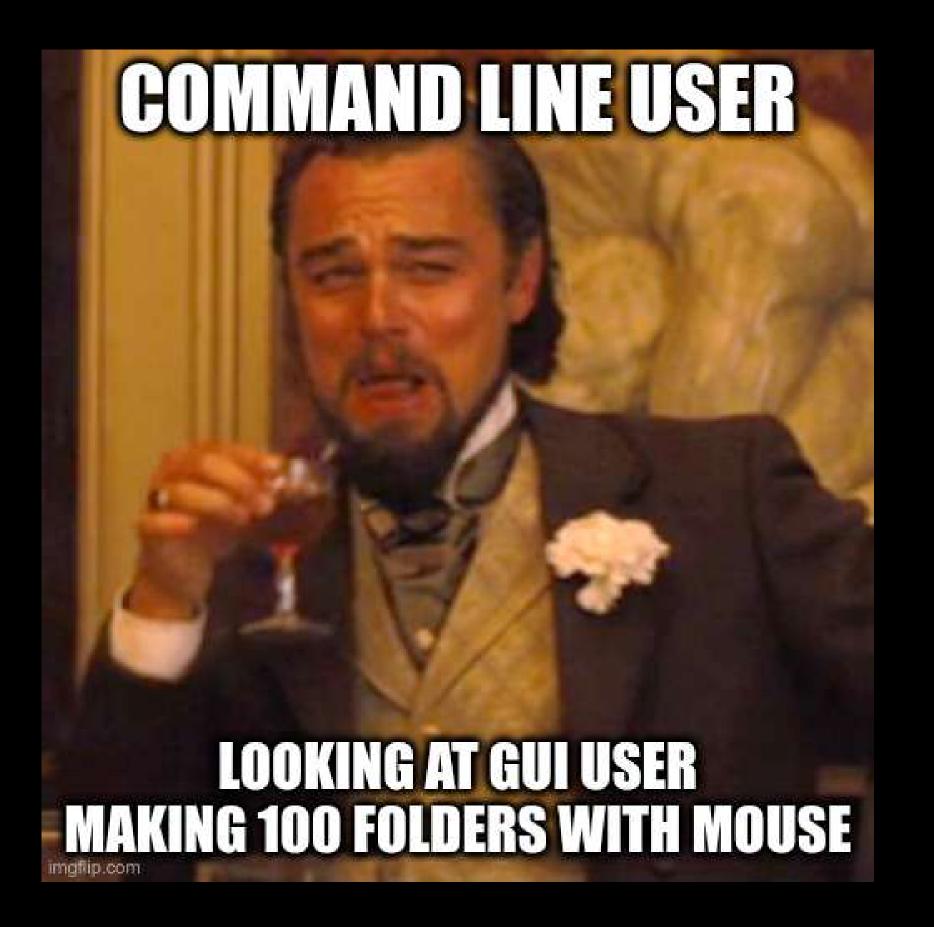
- GITHUB
- GIT VS GITHUB
- SENDING A PULL REQUEST













TERMINAL COMMANDS

- - mkdir <directory-name> Makes a new directory at the current path
 - rmdir <directory-name> Deletes the given directory
 - cd <directory-name> Changes your location to given directory
 - pwd Gives the absolute path of the current directory
 - Is List the files/directories in the current folder
 - Is -a Gives the list of all the files/directories(including the hidden files/directories)
 - touch <filename> Create a new file in the directory
 - rm <filename> Deletes given file.
 - mv <filename> <target-directory> Change the location of a file/directory



VERSION CONTROL

Version control, also known as source control, is the practice of tracking and managing changes to software code. Version control systems are software tools that help software teams manage changes to source code over time.













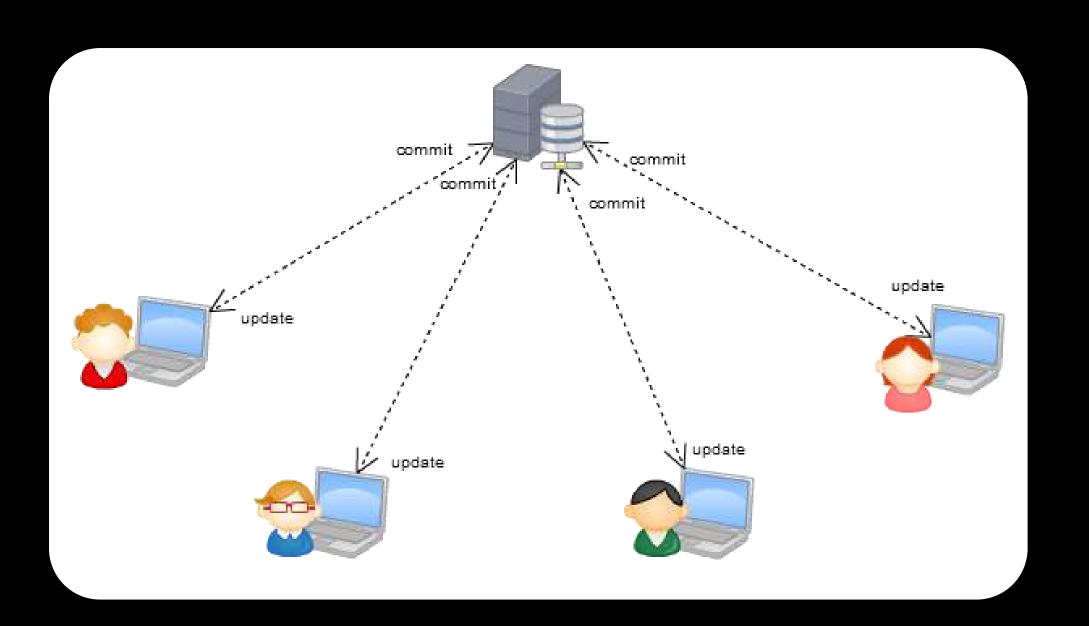


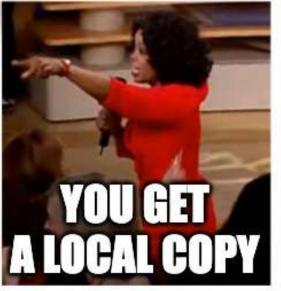






DISTRIBUTED VERSION CONTROL SYSTEM

















ABOUT GIT

- Git is a distributed version control system used for source code management.
- A command line version control program
- Free and Open Source







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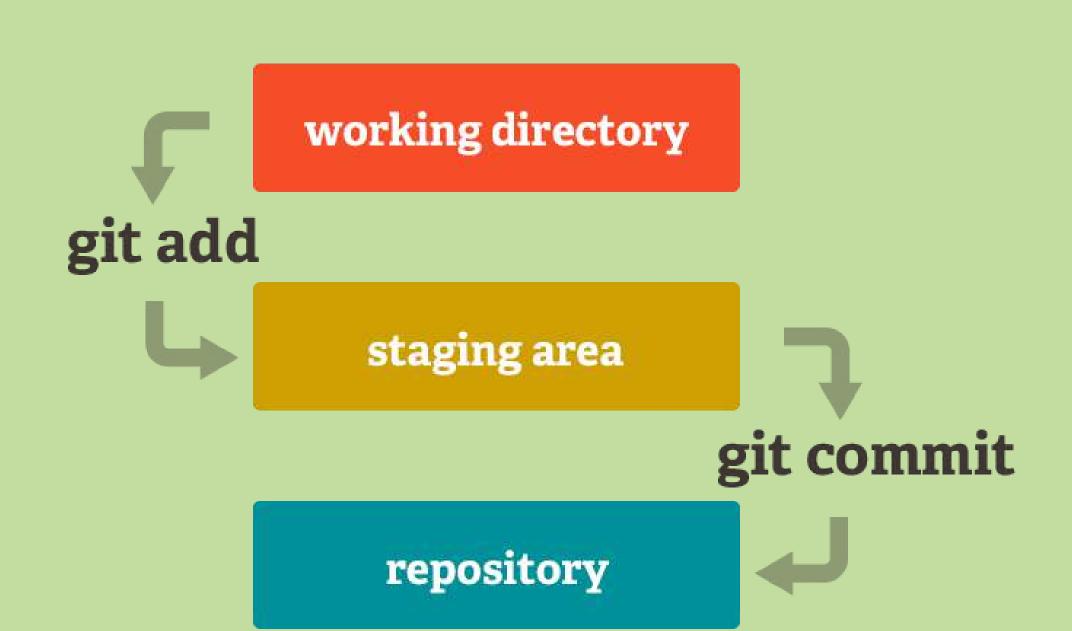
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origin|dynamic-directive-argum refactor: v-bind dynamic argun st: fix tests, resolve helper c refactor: extend dom-props update



WORKING DIRECTORY

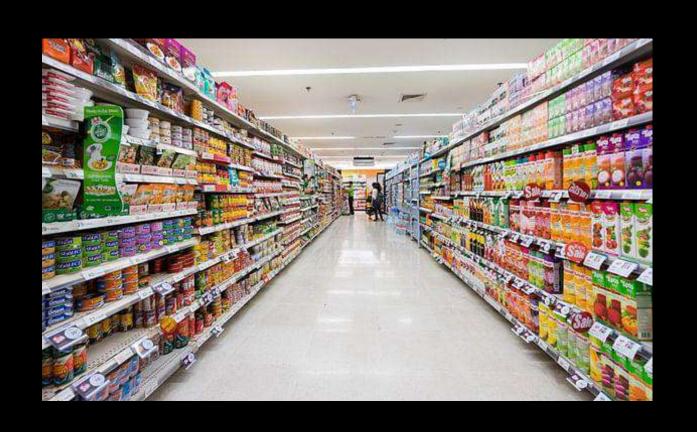
Working directory is the folder you are currently working in

WORKING DIRECTORY git add

You add your files to the staging area before commiting

WORKING STAGING LOCAL **DIRECTORY AREA REPOSITORY** git add git commit After making the changes, you commit those files to your local repository

STAGING AREA IN A NUTSHELL







WORKING DIRECTORY

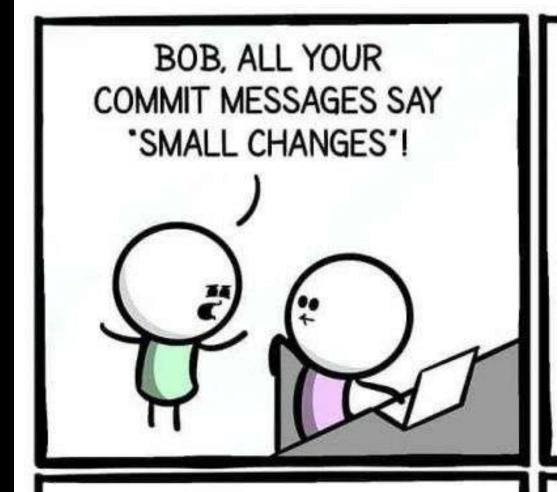
STAGING AREA

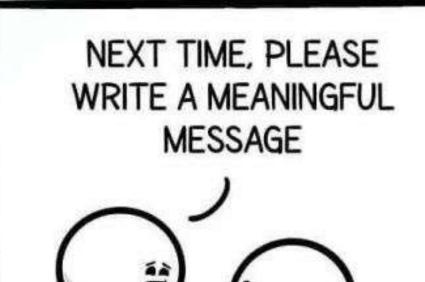
COMMIT

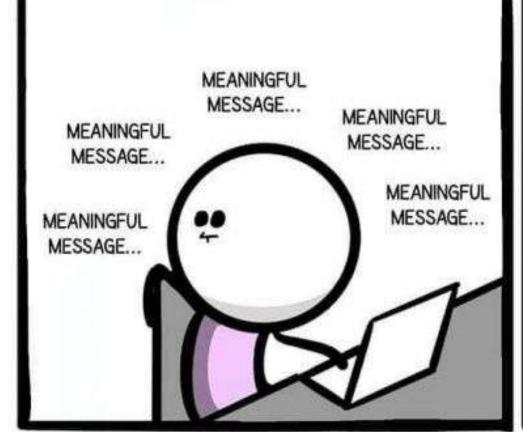




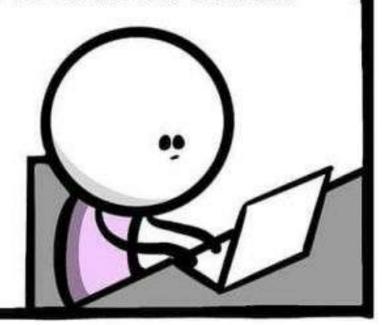
```
git init
git add <filename>
git commit -m "A nice commit message"
```







GIT COMMIT -M "WHAT IS LIFE IF FULL OF CARE. IF WE HAVE NO TIME TO STAND AND STARE..."



perf: improve scoped slots cha

test: test cases for v-on v-bi

Figure 1 Test Fi

TRILOGY TO THE STATE OF THE STA

test: fix tests in IEI



CAGE 1: UNDO CHANGES AFTER A COMMIT

Working tree is clean.

Cat comes up and adds rubbish files

You come back and check git status. It's too chaotic

You want to undo! Just do

>> git checkout .

And you have recovered your codebase



CAGE 2: REGTORING CODE AFTER FILEG ARE IN GTAGING

AREA

This time the cat plans to commit

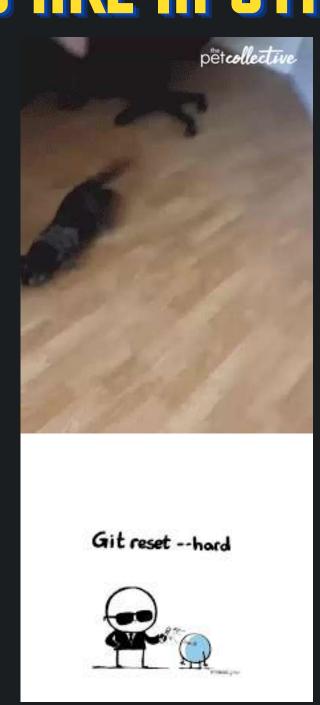
It adds rubbish files and rubbish content. It does

>> git add .

And luckily you come in time and it runs away

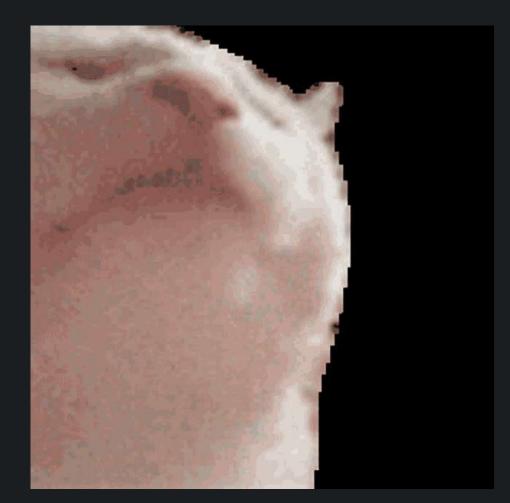
How do you unstage?

>> git reset --hard HEAD



CASE3: GOING BACK TO A PREVIOUS COMMIT

This time the cat makes not 1 but 2 rubbish commits >> git reset --hard <commit_hash>



perf: improve scoped slots change detection accuracy (#9371)

test: test cases for v-on |v-bind o

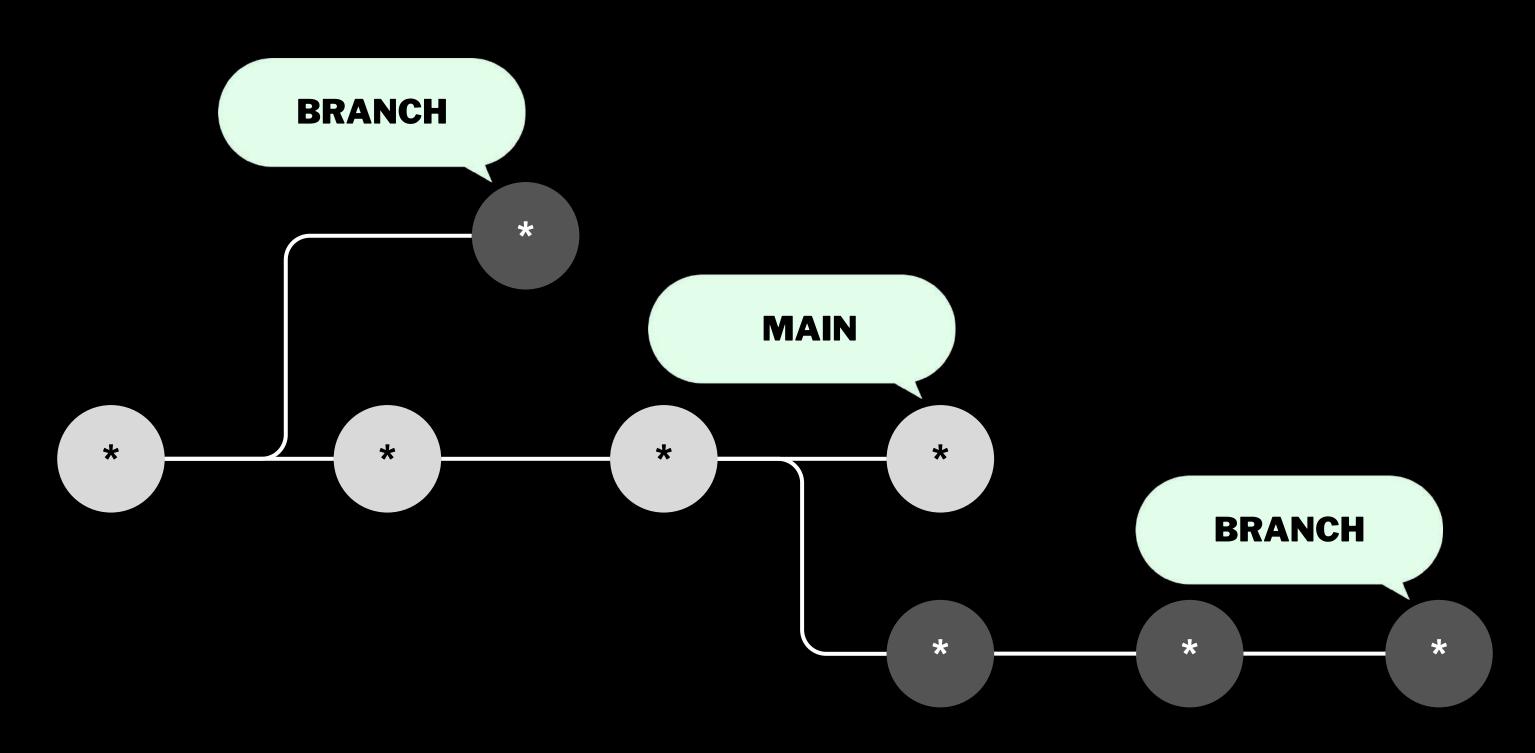
babelic is DOUBITES 2 mamic arginal control of the control of the

fix: fix checkbox event



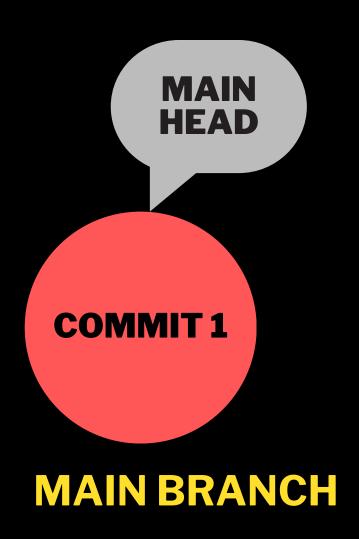




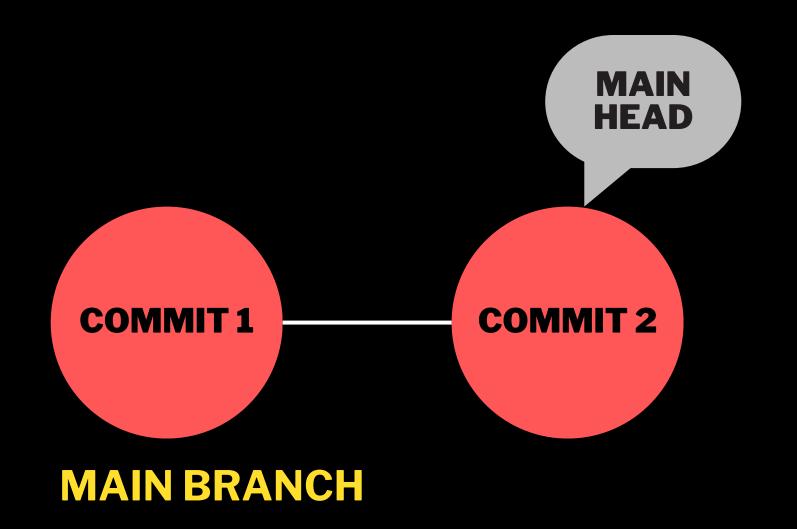




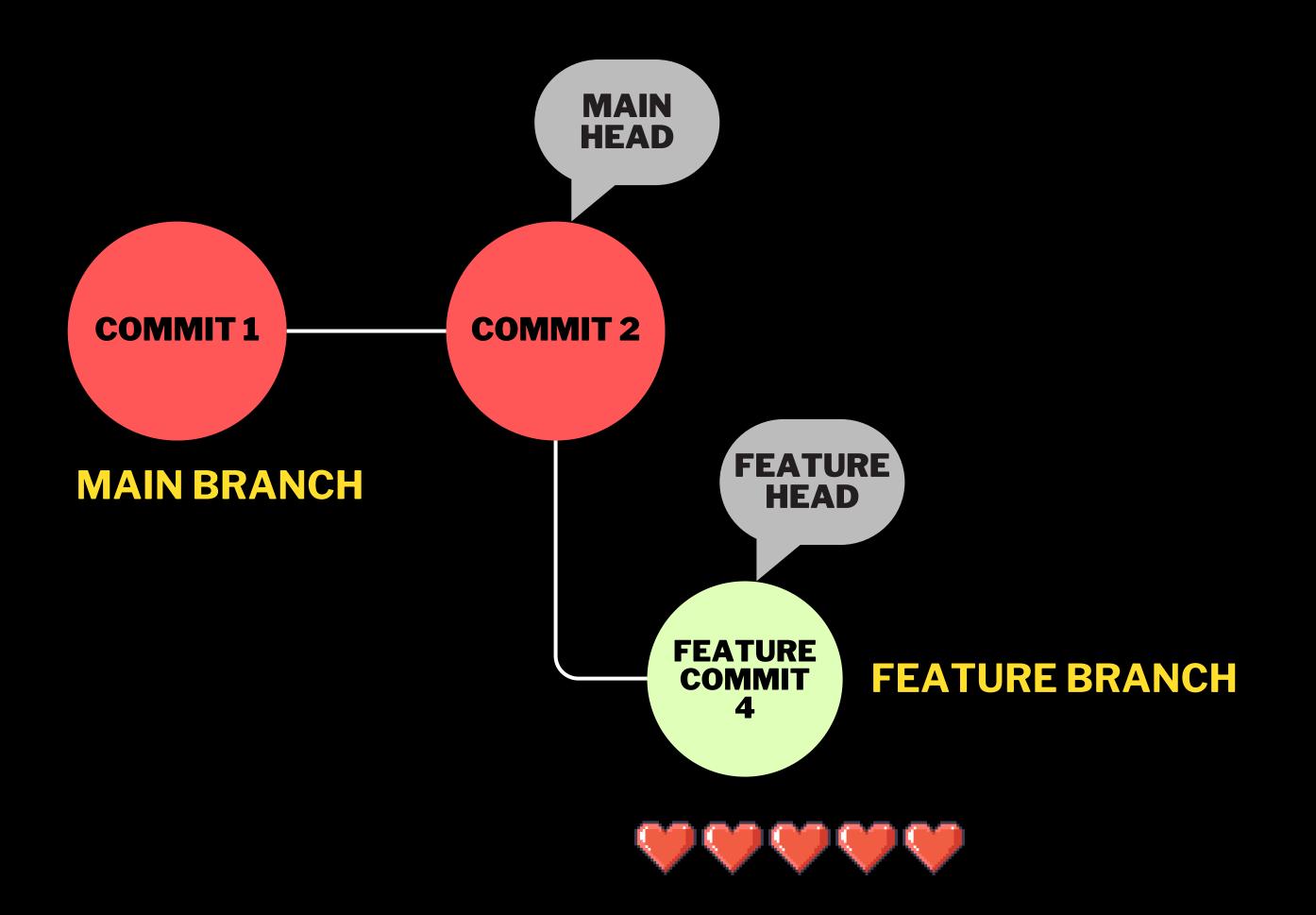


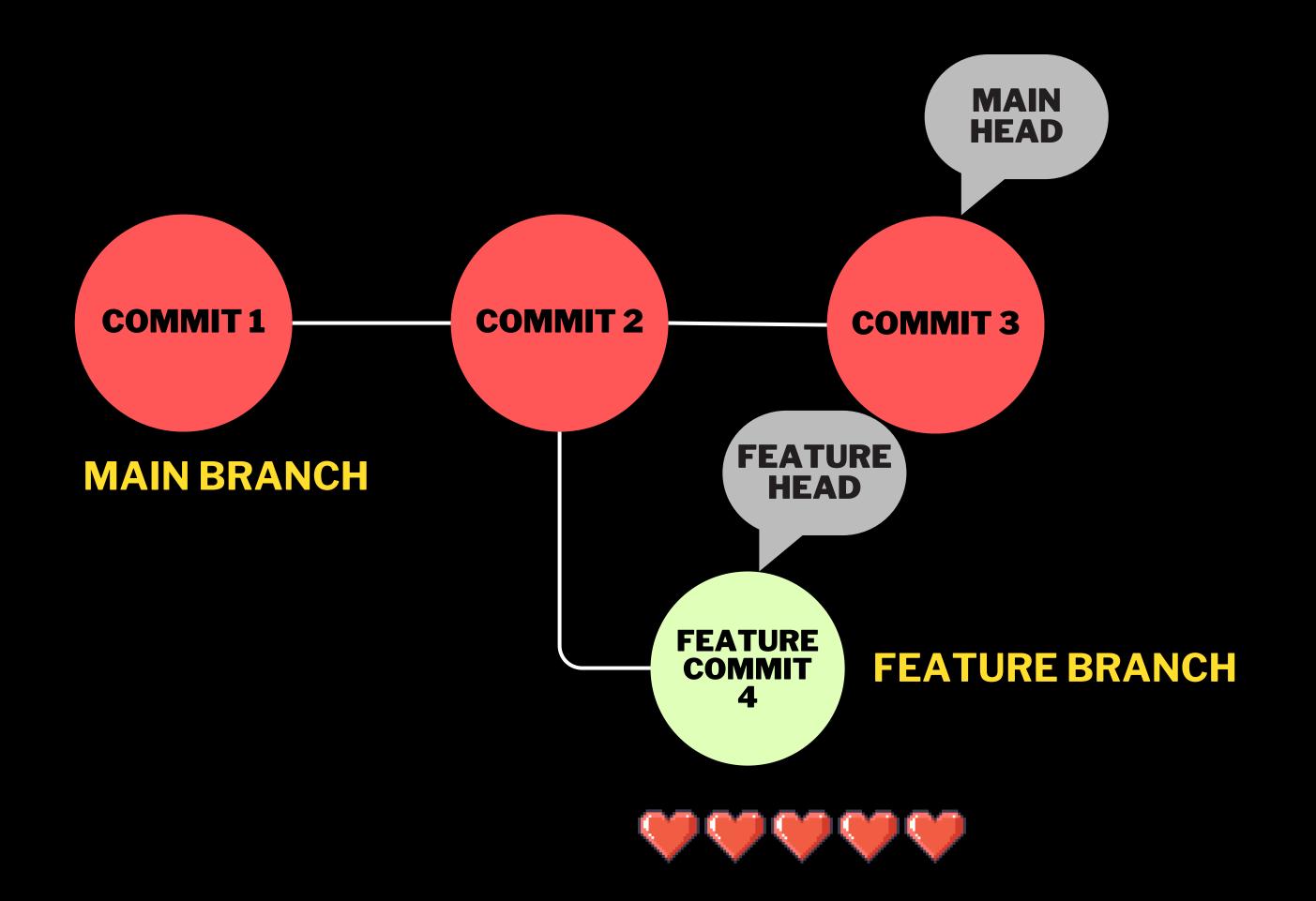


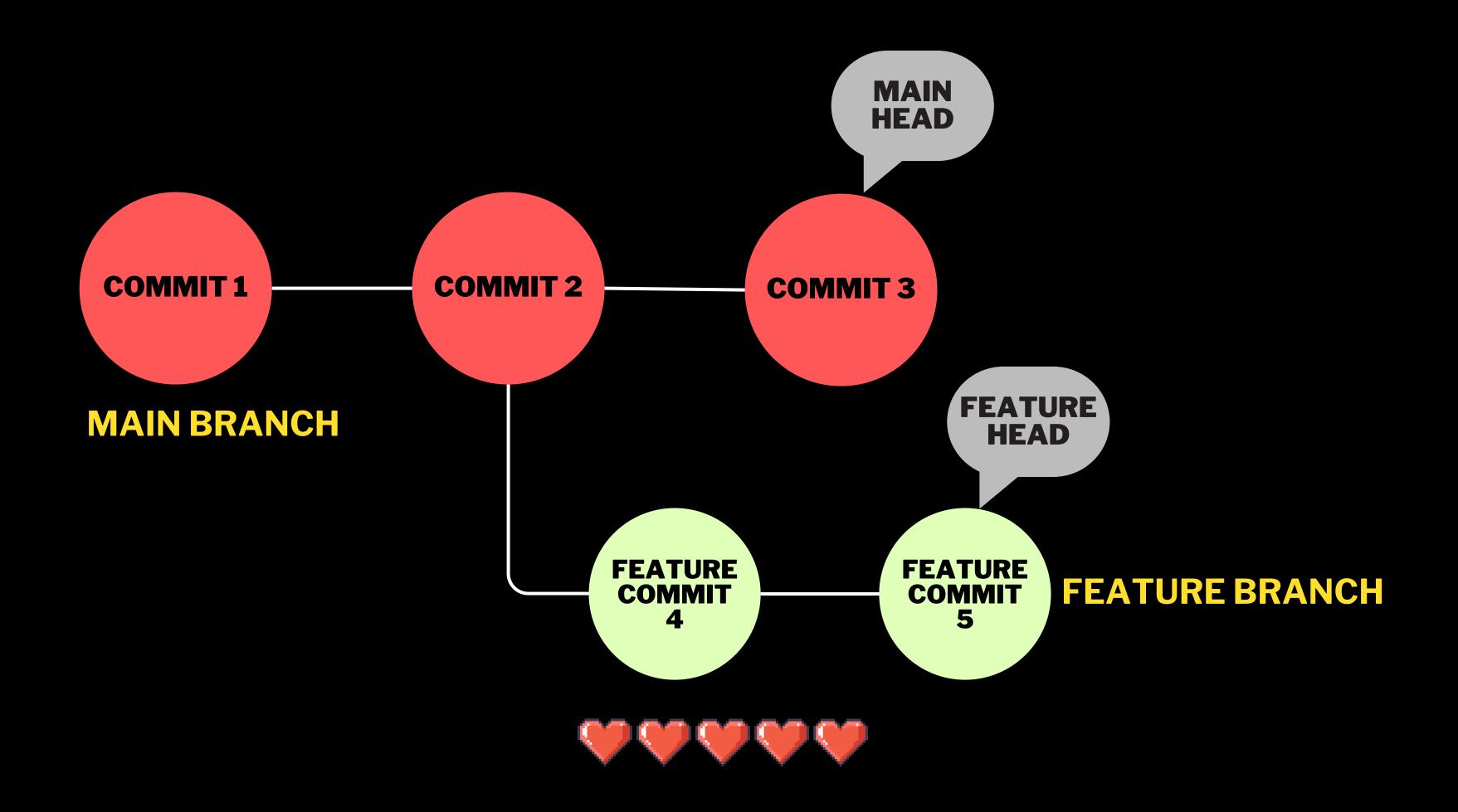












MAIN BRANCH AFTER MERGING CHANGES FROM MAIN FEATURE BRANCH **HEAD COMMIT COMMIT 3 COMMIT 1 COMMIT 2** *6 **MAIN BRANCH FEATURE FEATURE FEATURE BRANCH COMMIT COMMIT**



Dig College Beat Step Anaccuracy (#9371) test: test cases for v-on/v-bind dynamic arguments



GITHUB



Team Enterprise

Where the Workship builds software the builds

Millions of developes maintain their software or most advanced developes

ALONE WE CAN DO 50 LITTLE, TOGETHER WE CAN DO 50 MUCH HELEN KELLER

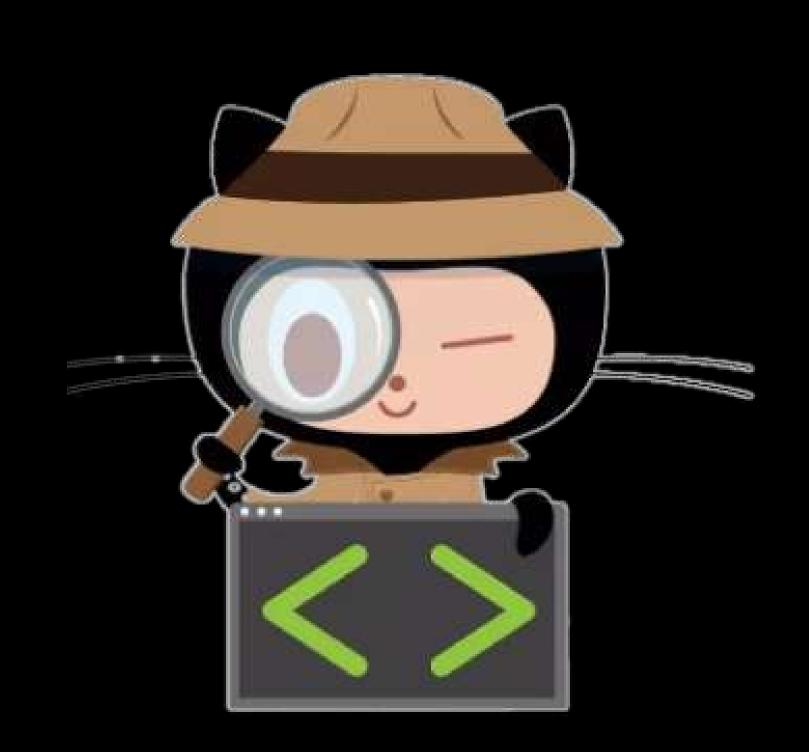
need for aithub?

- Developers need a web/cloud based hosting platform
- Useful for version control
- Enables efficient collaboration
- Easy evaluation of each others work



WHAT IS GITHUB?

- Largest web-based git repository hosting website
- GitHub makes git social
- Allows developers to collaborate on a project from anywhere



MAINE OFFICE KE 1ST DAY GIT AUR GITHUB KO EK BOLDIYA



GIT V9 GITHUB: WHAT'9 THE DIFFRENCE



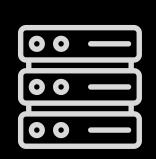


USED FOR VERSION CONTROL



COMMAND **LINE TOOL LOCALLY ON COMPUTER**





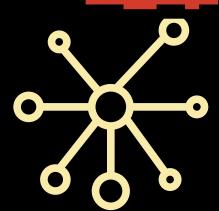
USED FOR HOSTING GIT REPOSITOREIS

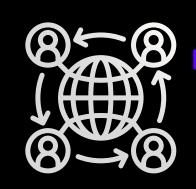






TRACKS AND STORES CHANGES MADE TO FILES

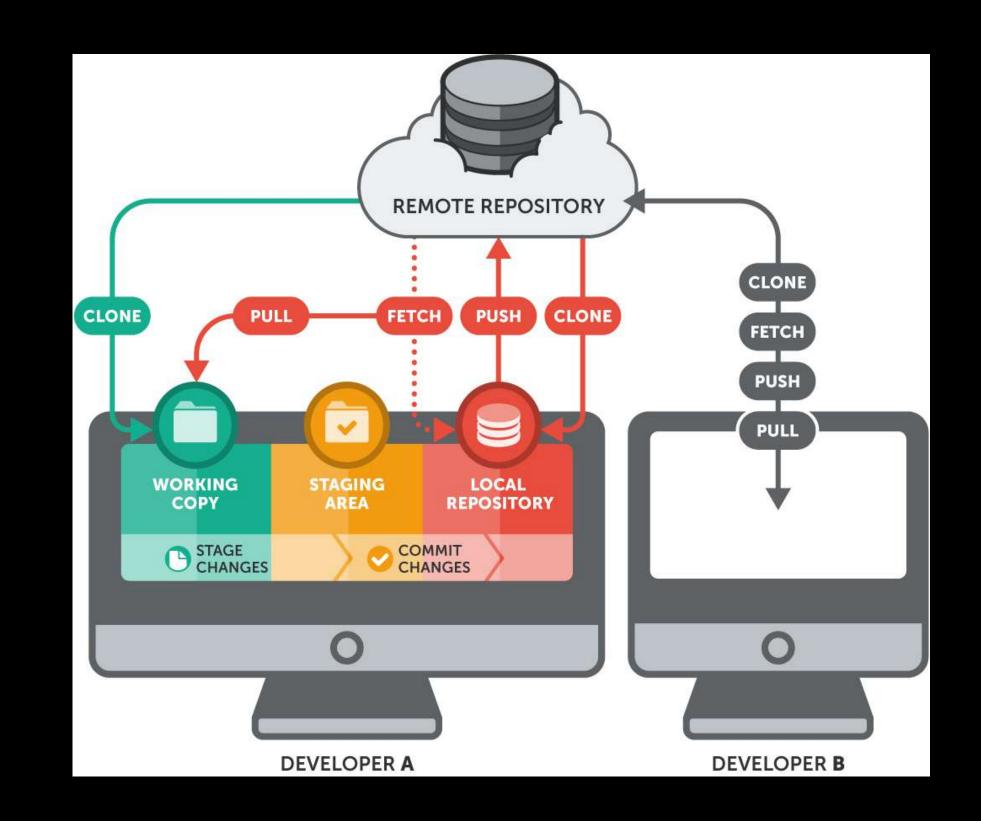




PROVIDES WEB INTERFACE, **ALLOWS SHARING CODE WITH OTHERS**

REMOTE REPOSITORY

A remote repository is a server-based storage location for code and project files, used in version control systems like Git. It allows multiple developers to collaborate by sharing, updating, and synchronizing their work, enabling efficient teamwork and code management.



PUSH AMB resolve he

test: fix tests in it







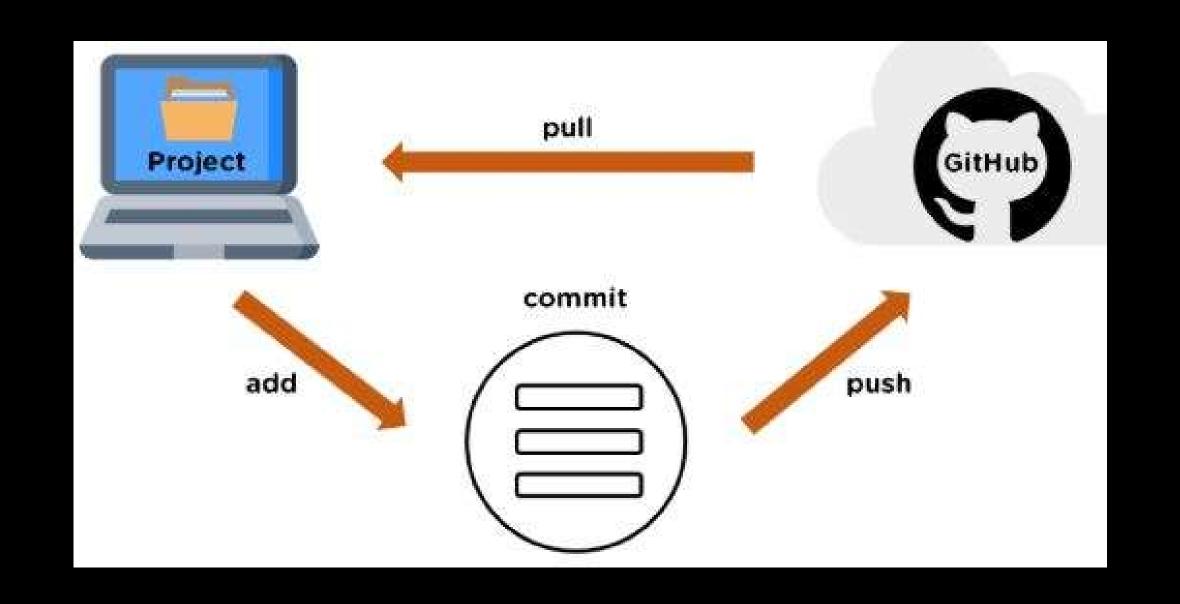


GIT PUSH

The "push" command in git is used to upload or send the committed changes from a local repository to a remote repository, allowing those changes to be shared and stored centrally for collaboration and synchronization among team members >> git push

GIT PULL

The "pull" command in Git is used to fetch and integrate the latest changes from a remote repository into the local repository. This ensures that your local copy is up-to-date with the most recent developments made by other contributors





DEMO: SEND A PR

STEPS TO MAKE A PR

- FORK
- CLONE
- NEW BRANCH
- COMMIT
- PUSH
- PULL REQUEST (ON GITHUB)

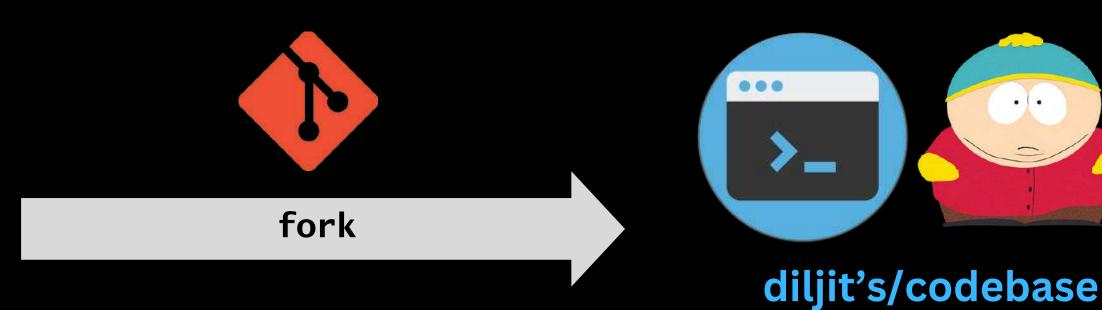
















diljit's/codebase













AFTER MERGING THE PULL REQUEST, THE CODEBASE IS FREE OF BUGS!

WE WANT YOU TO SEND A PRI





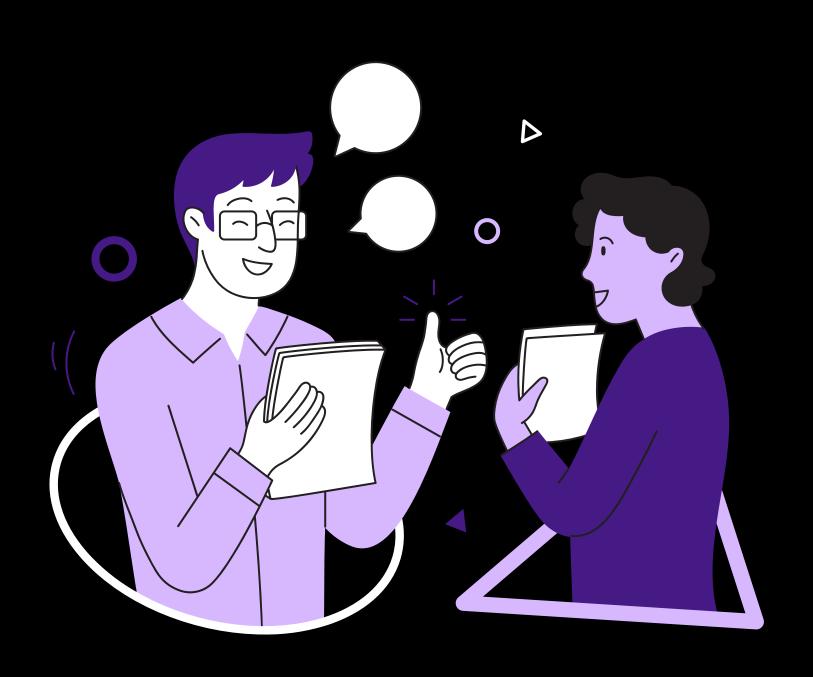


SOME GOOD PLACES TO TRY OUT



- Checkout metakgp repositories
- Issues with label <good-first-issue>
- Participate in KWoC-2023 (Keep following KOSS on facebook for updates)
- < https://goodfirstissue.dev/ >

WE WANT YOUR FEEDBACK





https://shorturl.at/cv147

