

A BASIC INTRODUCTION



CHONCHOL KUMAR RAY

CAM-SUST

WHO IS HE?



Linus Torvalds

WHAT IS GIT

Git is a distributed version control system.

- Track of changes
- Rollback
- Collaboration

CMD COMMANDS

- Q dir/ls
 - -Displays a list of files and directories in the current directory.
- Q cd
 - -Changes the current directory.
- Q mkdir
 - -Creates a new directory.

HOW GIT WORKS

WORKSPACE

- git init
- git status

STAGGED

- git add
- git diff

LOCAL REPO

- git commit
- git log

CONFIG & INIT

- Q git config --global user.name "[firstname lastname]"
 - -set a user name globally
- Q git config --global user.email "[valid-email]"
 - -set an email address
- Q git init
 - -initialize an existing directory as a Git repository

STAGGING

- Q git add.
 - -stage all changed file in directory
- Q git add -A -stage all changed file in directory and subdirectories
- Q git add *.py
 -stage all files with same extension

COMMIT

- Q git commit -m "[descriptive message]" -commit your staged content
- Q git commit -a -m "Fixed bug in feature X" -stage and commit at a time

REPOSITORY

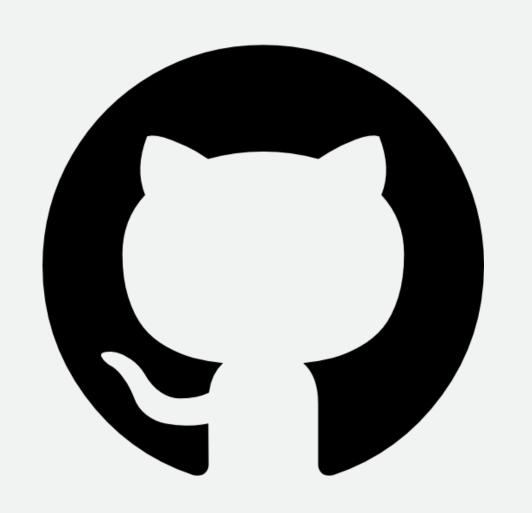
LOCAL REPOSITORY

The Local Repository is stored on your personal computer or workstation.

REMOTE REPOSITORY

The remote repository is stored on a server, typically a hosting service like GitHub, GitLab, Bitbucket or self-hosted Git server.

GITHUB



GitHub is a Web-based platform that provides version control service using git. Also it provides hosting for software development. It allows developers to store, manage, and collaborate on code projects

REMOTE TO LOCAL

- **Q** Create a repository in GitHub.
- Q git clone <repository-url>
 - -Copy the url of the repository and paste here.

LOCAL TO REMOTE

- Q git init
- Q git add README.md
- Q git commit -m "first commit"
- Q git branch -M main
- Q git remote add origin <repo-url>
- Q git push -u origin main

THANK YOU

CHONCHOL KUMAR RAY

CAM-SUST