Git Complete Course

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Install Git

sudo apt install git # For Ubuntu and Debian
sudo yum install git # For RedHat
sudo dnf install git # For Fedora

Command:

Text:

Setup Starship.rs (Optional)

- 1: curl -sS https://starship.rs/install.sh | sh
- 2: vi ~/.bashrc
- 3: eval "\$(starship init bash)" # Add this line at the end of .bashrc file
- 4: Copy File content from <u>here</u>.
- 5: vi ~/.config/starship.toml
- 6: Paste the file that you copied from github here and save.

Git Init

- 1: First Create a folder for practicing git (mkdir Your-Folder)
- 2: And cd into the newly created folder.
- 3: git init # Initializes a new Git repository in the current directory

The git init command is the first step in creating a new Git repository. It creates a .git directory in the current directory, which contains all of the necessary files for Git to track changes to your code.

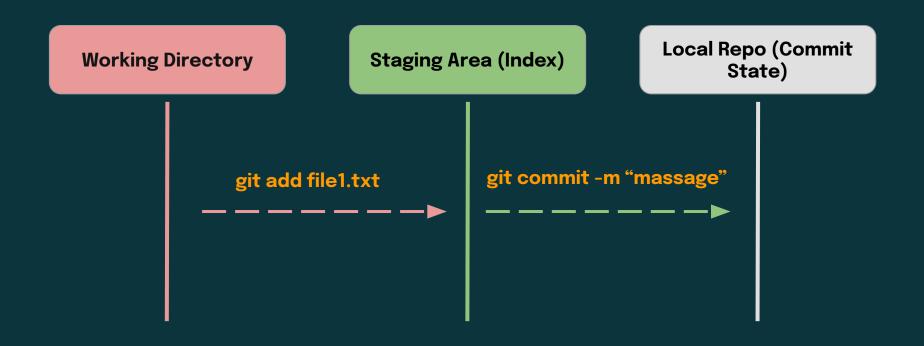
Configure Git

- 1: git config --global user.name "Your Name"
- 2: git config --global user.email "your-email@gmail.com"
- 3: git config --global -e # Check Configuration

First Commit

- 1: Create a file file1.txt with some content.
- 2: git add file1.txt # Add file to the staging area
- 3: git commit -m "a good massage" # Created first commit

Git 3 Tier Architecture Workflow



git add / Staging Area

The git add command is used to add changes from working directory to the staging area.

The staging area is a temporary holding area for changes that you want to include in your next commit. Once you have added changes to the staging area, you can commit them to the repository with the git commit command.

- 1: git add <filename> # Add single file to the staging area
- 2: git add. # Add all changed files in the current directory to Index
- 3: git ls-files # List all files present in Index (Staging Area).

Git Commit

The git commit command is used to create a permanent snapshot of the changes that have been added to the staging area. Once you have committed changes, they cannot be undone without explicitly reverting the commit.

- 1: git commit -m "commit message" # Create a Commit
- 2: git log # List all previous commits
- 3: git ls-tree < commit-id > # List all files present in particular commit

The commit message should be a brief description of the changes that you have made.