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What is Git?

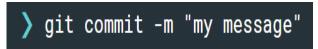
Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency, then using Git effectively will probably be much easier for you. As you learn Git, try to clear your mind of the things you may know about other vcs. such as doing so will help you avoid subtle confusion when using the tool. Even though Git is used to tracking changes in the source code, enabling multiple developers to work together on non-linear development. Git as their version control system of choice. Over the last few years, the survey hasn't even bothered to ask about version control because Git is so widely used.

- Businesses using Git can break down communication barriers between teams and keepthem focused on doing their best work. Plus, Git makes it possible to align experts across a business to collaborate on major projects.
- Any changes made to the source code were unknown to the other developers
- Developers used to submit their codes to the central server without having copies of their own

Basic Git commands

They are many git commands that can be used to perform many operations these are the some of the basic git commands

• git commit captures a snapshot of the projects currently staged changes also functions like taking a photo. Anything that's been staged with git add will become a part of the snapshot with git commit.



- git status shows the status of changes as untracked, modified, or staged.
- git branch shows the branches being worked on locally.

) git branch

- git merge merges is used for development created by git branch and integrate them into a single branch
- git pull that allows to fetch and download content from a remote repository and immediately update the local repository to match that content
- git push updates the remote repository with any commits made locally to a branch.
- git init initializes a brand It can be used to convert an existing, unversioned project to a Git repository or initialize a new. It adds ahidden subfolder within the existing directory that houses the internal data structure required for version control.
- git clone creates a local copy of a project that already exists remotely. The clone includes all theproject's files, history, and branches.



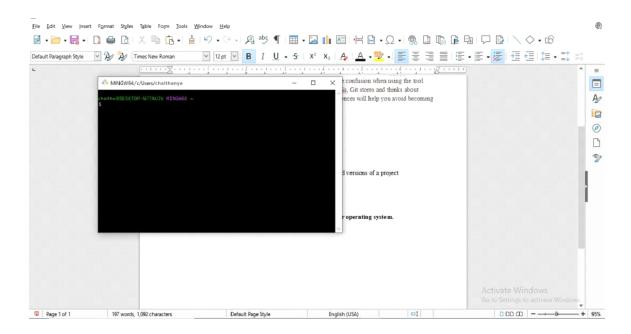
• git add stages a change adds a change in the working directory to the staging area. It tells Git that you want to include updates to a particular file in the next commit

> git add file1 file2

Manage Projects With Repositories

- The First thing we have to do is **Clone** the project to work on a local copy
- Then Control and also track the changes on Straging, Committing
- To allow them for work on different locaions we use Branch and Merge
- Then we need to **Pull** the leatest Version
- Later we have to **Push** local updates to main project

- The very first step is to create an accout on github
- Then We need to download the file of git bash file windows
- · After downloading we need to install the git bash file and run



- We have to check the version then promopt Git Bash \$ git --version
- Then we need to change the working directory to local repository the command : \$ cd Document

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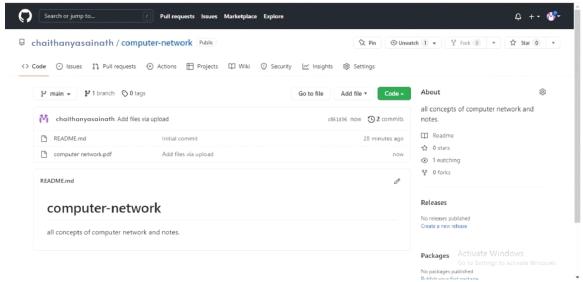
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Stage the file for commit to your local repository.

-git add

Then we add the file to respository and commit
 git commit -m



• Atlast we complete the github project

