Git Commands

**Push: From Local to remote**

Start git: git init

Moving files from your machine to git staging area: git add filename

Want to see list of files in staging area: git status (green color means added to git staging area. Tred color means not yet added)

Transfer files from git staging area to local git repository: git commit -m “msg”

Note that it does not ask for file name. It means all the files stored in git staging area are transferred to the git local repository on your machine.

Checking git local repository: git log

This will tell: Who committed it, when and whats the message and hash which will uniquely identify this commit.

Now, we want add local git to remote git repository. I have created new github repository named Story to put local to remote. After doing this, I got a link which I need to paste in my terminal.

Example: git remote add origin https://github.com/vk-vinayak/Story.git

git branch -M main

git push -u origin main

Copy and paste above in terminal and done! Success!

Now, If I added lines in my files. Automatically nothing changes in github neither in git staging area. I need to separely carry out above activity to make things happen. But when I check git status it shows me that it is modified.

Why you need staging area? What things you need to track. Only those in staging area

What I have done to ensure changes I made in Chapter1.txt gets into github remote repository?

1. Git add chapter1.txt to the staging area
2. Git commit -m”msg”
3. Now, to move from local to remote: As the connection between local and remote is already established, I do not need to copy and paste link again to establishthe connection. I only typed: git push -u origin main and things got updated on github remote repository.

Now, I want to rollback changes I made. I mean I messed up with the file I am working with and I want to go back to the previously saved version of the file on git.

Command: git checkout Chapter1.txt

What happened: The things that I have messed up in the text file got restored as per previous version of the git . (Messed up line got deleted). Note that this happened locally.

Wanted to know the difference between your current version and git version of the file?

Command: git diff Chapter1.txt

Adding all the files in the folder to the staging area: git add .

To see hidden files in a folder: ls -a

If you get lost in path, but if you know the name of you file, you can get the address of the file by following command:

readlink -f filename

How to remove all the current files from the staging area: git rm –cached -r .

To remove a specific file from git staging area: git rm –-cached filename

Suppose, you want to ensure that certain files are never uploaded on git (your secret, private files), you first create .gitignore and list out all the files you want git to ignore in that file.

DS\_Store file is hidden file which tells your preference about how you want to view files in your folder.

How to create hidden file? Put dot in front of it

touch .gitignore

Now, how to open that hidden file? code -a .gitignore

How to open any file from command line in VS? Code filename.format

If you want to hide all your .txt files then: \*.txt in .gitignore

Now, if you check git status, you will see .gitignore and file.txt. secret.txt is not added to the git as we have included it in the .gitignore

Git diff chapter4.txt

A new line added just now becomes green in color and the earlier common stuff becomes red.

**Pull: From remote to Local**

**Git clone: Store someone else’s code in your local machine as your version of their open source code.**

Git clone url

What I did: I wanted to play the game whose code was open source available on the github. I searched for quakejs, copied their link and then moved to hyper terminal and typed: git clone and pasted the link I copied using shift+control+V.

Then, I pasted couple of line of code as per the their documentation on github. Like npm install and other. I think this is to set the server for the site and then followed the url to play the game. (although its not running, I think I have understood the process)