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26 Aug 2022

## Git & Github (code Eater)

Why Git?

because, (web2, web3, job, freelancing)

What is Git? (Distributed version control system)

It is simple software, exist on your computer to track history & files.

Why popular? changes of data track

- Track the history of files
- Collaboration

## Git Vs Github

- Github is company that let host your file using git.

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## Git Installation

- Desktop
- VS code editor

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## Git Configuration files

ls - show file & folder

ls -a - , , & hidden

Username  
Name

git config --global user.name → check

git config --global user.name moteulharn → Add Name  
→ check

Email

git config --global user.email moteulharn@gmail.com

## How Track

⇒ Git Bash terminal

⇒ Git init create detector not

⇒ Setting hidden files. Show

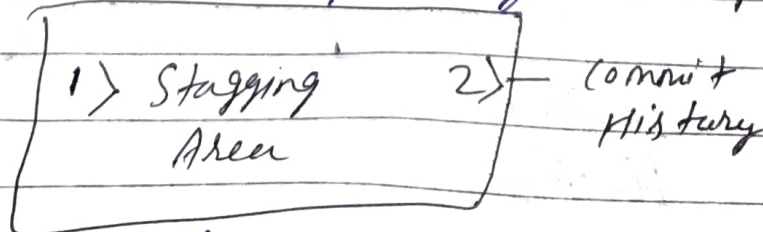
## How Git Works?

1. Folder Git & Github

2. Working Directory - All code, Read, Write.

3.

3. .git folder representing → Repository

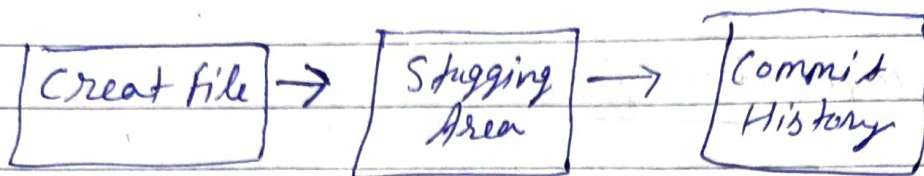


Repository

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Commit history — Unique id generate 14 Hex Decimal character

Identify first seven character.

Working  
↓

git status

Staging  
area  
↓

git add hello.txt

staging file transfer

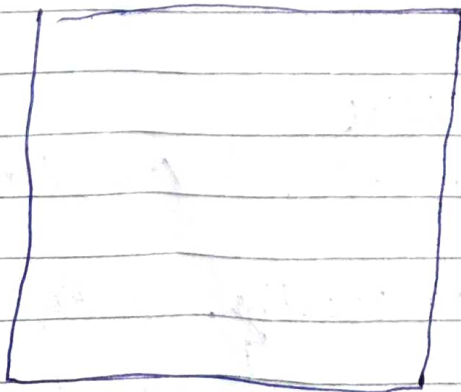
Commit

git commit -m "initial commit"  
name

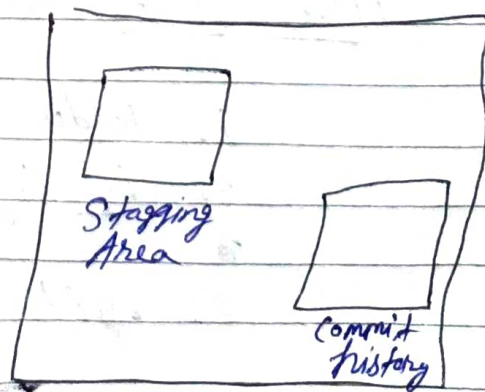
How Git Work?

Folder  
git

.git



Working  
Directory



Repository



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current  
directory

`git .`

⇒ Staging area to commit area

`git commit -m "code version"`

hexadecimal create

⇒ changes working directors

⇒ Working to staging area

`git .`

⇒ check — `git status`

⇒ Staging to Working  
unstage

⇒ `git reset HEAD -- hello`

## # Branch

• It is a pointer commit.



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`git cat-file -p` , latest commit code

`git log`

⇒ own branch create?

yes,

`git branch branch1`

check ⇒ `git branch`

1. branch
2. master

both are value same

⇒ how branch change?

changed `git checkout branch1`

checked - `git log`

## # Merge

incorporate the change of one branch to another changes.

$new1 * new2 = new2$  changes

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~~#Merge~~

branch check

git check

branch change

git checkout master

fast forward merge?

Master old to latest merge.

Delete branch

git branch -d branch1

Three way merge?

git add .

git commit -m "blue"

check

git <sup>branch</sup>  
~~merge~~

Merge

git merge branch1

close  
bash

W2

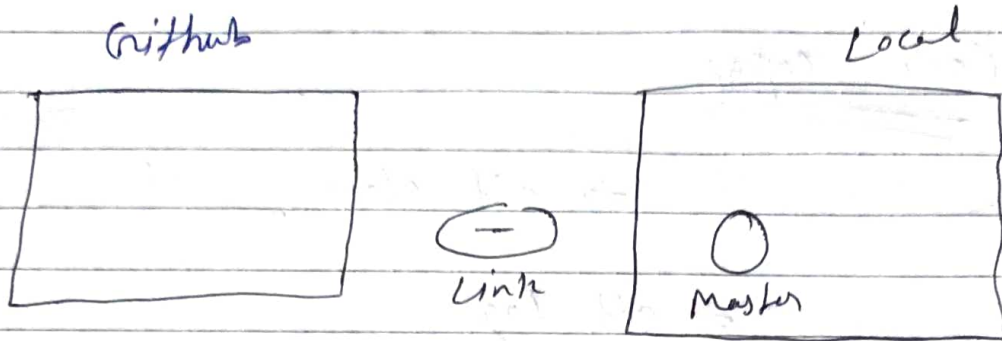




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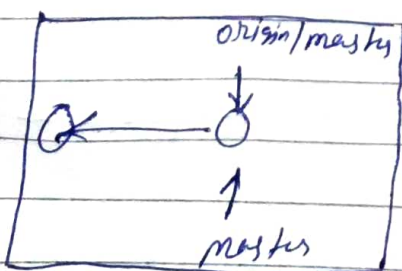
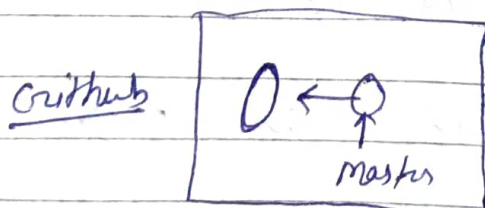
push

git push origin master

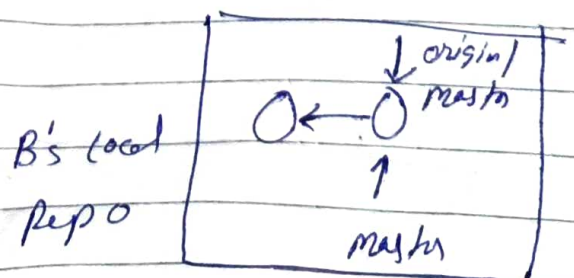
⇒ Finally linked remote

⇒ git push origin master

Working with others



A's Local  
Repo





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# Clone

Code copy

⇒ git clone url abc

⇒ git log

fetch

origin sink master

⇒ git fetch origin

⇒ git merge origin/master

# Working at the same time

⇒ git pull origin master

⇒ git add .

⇒ git commit -m "resolving conflict"

⇒ git push origin master

⇒ git pull origin master.

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