

//git version control system er maddome amra je kono file er onek version rakhe dite pari je version gulo amder je kono shomoi e lagte pare

//git github 2 ta binni jinish. Git file er dike takiya thake change er jonno , and change ta file system a record rakhey. File ta je kono file hoty pare text, image etc file. er best feature holo aita version control kore. Git is a version control system.

//git local change gulor track takhe.



//git ki vabe kaj korse? git er khatre amra 2 ta jinish chinta korbo local & remote. Local hosse jeta amra amder machine a kaj korbo. Remote hosse jeta cloud a thakby.

//Local a amra jeta kaj kori working directory. working directory te kaj sesh holy amra aita k stage a tuly dibo. Stage thaka amra local repository te tuli. Repository k amra ekta folder kolpona korty pari.

//akhono amra cloud a jai nai. cloud a amra tokhon e jabo jokhon ai code ta amk onno kawk dite hobe or cloud a jokhon rakte chai pore jeno onno machine a use krty pari. ai purpose a Github or remote er agomon. so ai khatre amra local thake remote a diya dibo. aita e git er basic concept.

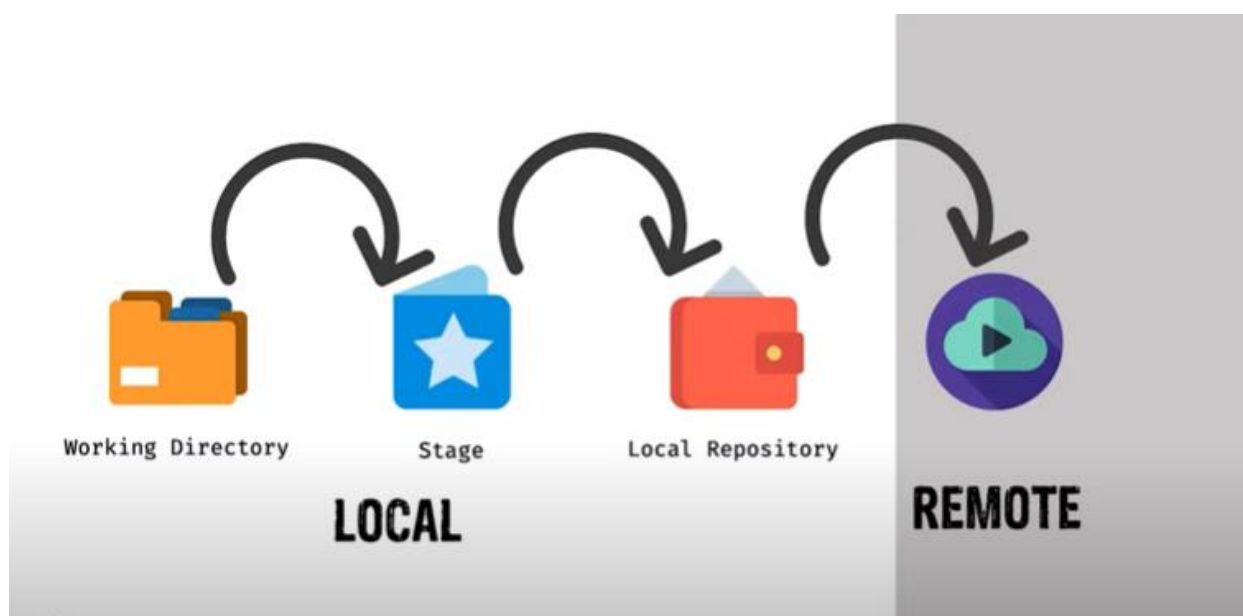


Fig: Local repository theke pore amra remote a jai

\\\\ Git install, init, state & clone:

//git download korbo & install korbo. install korer por git bash boly ekta terminal or box pabo. aita k use kore git command likbo.

//akhon terminal a mkdir gitone //gitone name ekta directory toiri korlam

//cd gitone

//file create korbo one.txt, two.txt, ekta folder crate korbo akhon.

//akhon git init korbo karon git k chanai dity hobe

Git init korte ekta hihen .git folder create hoi jeta shob kisu maintain kore & amder project a nojor rakhe shara khon

//cloud a o repository create korbo mane init korbo.

GitHub theke repository niya ashe kaj korte chile:

Git clone <https://github.com/Maksuda123/JavaScript-All-Code.git>

//github er kono repository niya kaj kortey chiley git clone file link.

//ki ki change/update or kaj hoiyase dekhbar jonno= git status

//akhon stage a tulbo er mane add kora. Add korer command = git add --all / git add -A (shob add korer jonno mane Jodi clone kore thaki akhon notun aro file tect add korlam ai gula to git er kase unracked so ai jonno git add --all)

Stage = add Add kora mane e stage a tula

//er por git status diya dekbo ki ki add hoiyase

//add teke abr shob bad dite chile command = git reset

So stage a tule dilam add kore but akhon abr shob badd dite chassi stage theke tai command = git reset (er mane state theke local a chole jassi reset kore)

//current folder git a tulty command = git add .

//kisu delete korly sheta git a na tulty chile command = git add * (1 ta delete koresi er ekta create koresi file akhon chassi notun ta stage a tulte tai = git add *)//delete file chara shob file stage a tule *

//jodi ekta file k stage tulte chi onno gula bade command = git add file name = git add one.txt

Kono fulder er bitor Jodi file ta thake jake stage a tulbo = git add myFolder/one.txt

//ami jodi chai shob .js file add korbo command = git add *.js

>>Easy way root folder theke = git add . kore dile e holo then check git status

.....ja korlam ato khon local theke stage a tullam. Working directory to stage end!

Stage theke local repository:

.....ki vabe nite hoi dakhi.....

Commit kora mane local repository te tulamane amr kaj sesh

Commit er jonno = git commit ai tuko likle o hoi but aita good practice na shate m plag diya ki korasi bole dewa valo

//command er maddome comit = git commit -m "I have made change" (m diya mssage pah)

//git status

>Commit kore falisi akhon chassi abr working directory te fire jate (ager moto stage a asi but working directory te fire jete chai)

//commit er por ami abr local a ashte chile kaj korte chile command = git reset HEAD~ (working stage a niya jabe)

So amra commit korle o she khan theke fire ashte pari

Git remove:

Manually o kono file k delete korte pari kono file delete kora dorkar hole er por akhon to abr stage a tulte hobe so = git add .

Akhon Jodi chai reset dib akhon reset dile stage theke file gulo chole jabe but delete file kintu ashbe na

Then Akhon Jodi chai jeta delete korsi aita amr niya ashbo amr delete kora lagbe na command = git reset --hard

>Remove + stage a tula 2 ta ek shate kore rm

//git remove korte = git rm one.txt git status

Jake remove korte chai tar Jodi kono change kore thaki ta hole delete korte = git rm two.txt – f(mane stage a na tula thakle ai vabe remove korte hobey)

git branch:

//koita branch ase dekte command = git branch

//branch create korte command = git branch file name (git branch javascript)

//branch er modda dukte command = git checkout main

//kisu korly commit korte hoby

//commit er pore ek branch er kisu er ek branch a dekha jabe na (branch alata tai commit er por dekbo na)

//development & main 2 ta branch k marge korte chai So development branch theke= git merge main -m "mergin on development with main"

Main er shate development k merge korbo = git merge development -m "mergin on main with development"

>merge er shomoi conflict hote pare Jodi 1 e file a 2 jon 2 dik theke change kore So tokhon merge korte gele bolbe Auto-mergin conflictfaild

Suppose main a asi development er stahe marge korte chassi = git merge development

Ato khon ja ja korlam shob chilo local repository er kaj.....

Add korlam, commit korlam local er kaj sesh

.....local end.....

Local theke remote a nite chaile = push

Remote theke local a niyaashte = fetch (fetch korle local a change ta ashbe but working directory te ashbe na Working a niya ashte pull)

Remote theke Shudu change niya ashte chite = fetch

Remote theke shob niya ashte = pull (pull = fetch + pull+ merge working directory er shate)

Remote = origin (origin mane remote)

Push korte command = git push origin main (local main theke = remote main a push korte chassi)

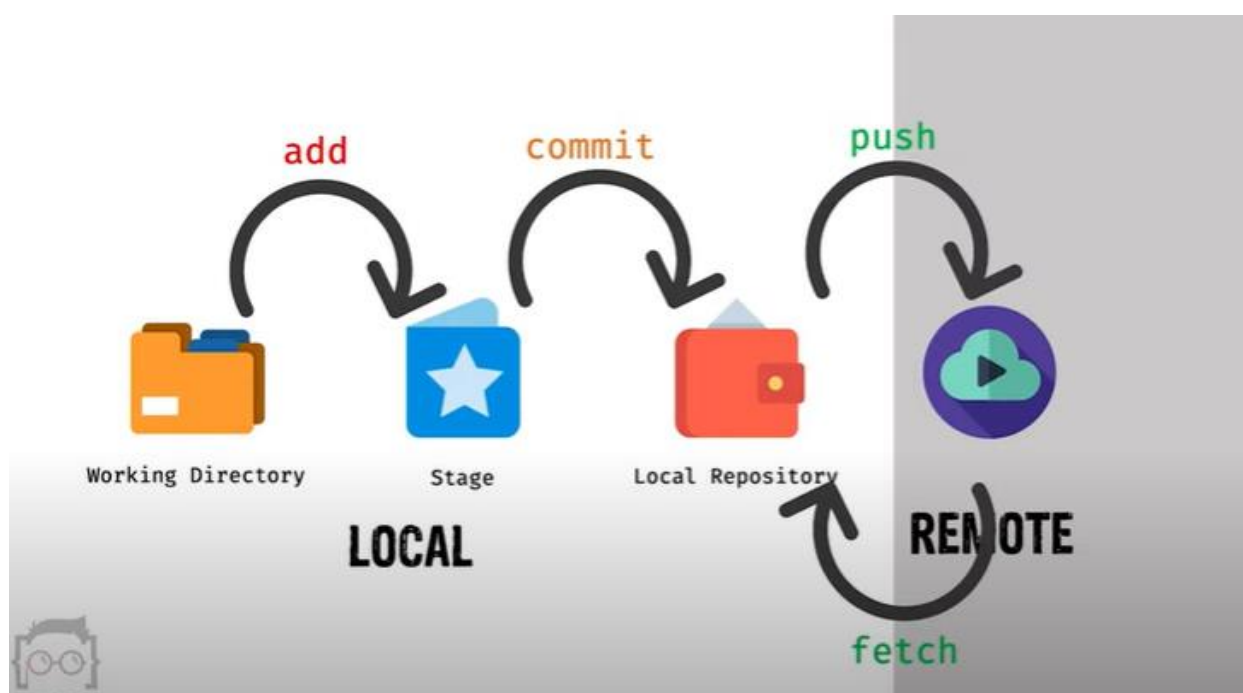
Development k push korbo = git push origin development (remote a development branch create hobe & push hobey)

Remote a change/edit korle =git fetch (remote theke local a niya ashte)

Remote theke niya o shte chai working a impact o frlte chai tahole =git merge (ftch er por merge o korte hobey)

Ai fetch & merge 2 ta ek shate korte =git pull (pull = fetch + merge)

Pull korle change o niya ashbe &merge o korbey



Summay

//git iitialized korte command = git init

//code add = git add .

//current folder git a tulty command = git add .

//ki ki add hoise dekte = git status

//shob add korer command = git add --all

//kisu delete korly sheta git a na tulty chile command = git add *

//jodi ekta file k gite tulte chi onno gula bade command = git add file name = git add one.txt

// Spacifique file add korte = git add script.js

//ami jodi chai shob .js file add korbo command = git add *.js

//git commit a add korer por Spacifique file remove korte = git rm script.js

//akhon dakbo stage theke ki babe local repository te nite hoi

//command er maddome comit = git commit -m "I have made change" (m diya mssage pahi)

//git status

//koita branch ase dekte command = git branch

//branch create command = git branch file name

//branch er modda dukte command = git checkout main

//kisu korly commit korte hoby