

- 'git -- version : shows version of git
- ils: shows all directories/files
- jet init : pinitializing git, so now it tracks our files
- · 'git '; a hidden folder to keep history of all files and sub-foldors.

 Consits: "HEAP, hooks, refs, config, info, description, objects" files initially, & it grows in size as we make progress.
- . '(ommit' ~ check point (like game)
- . 'pwd': shows present working directory
- ogit status : > shows whether our folder has already initialized git?
 - git push Github Is shows any 'commits' to be done on branch, name will be shown.
- .'cd': changes directory

· 'git add file_1 | git add . ':

write multiple files

L) adds file_1 to tracking ladds all 'uncommitted'/changed files zone. we can also under tracking of git.

git add

- Working dir

√ Repo ←

- Staging Area -

- · 'git commit -m "message": while committing it imp. to add a message inside "".
- ⇒ Stage: →git init
 - -> create file/files
 - -) git add file1 file2 Il git add .
 - git status
- → Commit; → git commit -m "a good descriptive message" - git status

 - > git log ' pured to view history of committed changes within a Call repo. I log of commits with commit hash
- 'git config -- global user-name "Ank ver" : set a git username
- · 'git config -- global user, name' : confirm, you have set correct git username " 'git config -- global user, email " ave g. ai" : set a git email

.' git log -- oneline "shows git logs in I line > '.gitignore': > don't want to track some files -> ex node_modules, APIkey, ex - get template online, patterns can be tricky. (type 'gitignore generator 'online) > Branches: → Like an alternate timeline -> You are always on some branch - Head - master : Head points to where a brand (checkpoints) is currently at. · git branch : shows all possible branches available · 'git branch branch_name': creater a new branch named "branch_name" · 'git checkout branch_name': switches to 'branch_name' branch.
· 'git checkout -b branch_name': Creater & switches to 'branch_name' branch
· Commit before switching to another branch (git merge branchz): merges branchz with => Merging the branches: 'master' brands, provided we are currently on master - git branch -d brunch1': deletes 'brunch1' brunch to resolve conflicts: → git tries it's best branch that you've on. Keep whatever you want, remove mounters & save. line 3 y another branch. (merge) (>>>>>> bugfix Suppose we want changes of other branch to be saved, then whatever is in "p" -> remove I those & save. That's it. Conflict resolved. ⇒ git diff : > shows the changes between working directory (convent file) & represent lines, thou to read diff:

of file 1

doesn't mean (--) file 1

(+++) file 2

(is not but file 1, but change)

made over time, so sawing as file 2

in file

multiple files represents lines (+++) file 2 [in file] can

represent lines (+++) file 2 [in file] me

doesn't mean sine & little preview of it. of file 2

., so you made changes , - did git add. " - Now you can use this command. - git diff -- staged ! shows differences blue index to (staged changes) & I shows in 'vim mode' -> to exit -> enter 'q'. -) If we want to see differences between 2 specific commits; + git log -- oneline : shows commit id with commit messages, basically git lag. 6 git diff (commidId1). (commitId2) : shows differences both commits. git diff <commit[d]> <commit[d2> ⇒ git stash ': > create a repo, work & councit on main → switch to another branch & work -> conflicting/unsaved changes don't allow to switch branch, without 'commits -> Stash cou + git stash ': you can switch branch be moved to diff. branches - 'git stash pop': bring back those chappen -) git stash apply : apply changes & keep them in stash as well. (get from 'git log -- oneline') git checkout (Hash) -> (detach Head): new branch -> Now if we want to come to present -> "git checkout marker" git checkout HEAD ~ 2 -> look at 2 commit prior git restore filename -> get back to last commit version. ⇒ Rebase: → alternative to merging - clean up tool (clean up commits) Merge Short out for Steys: "git init D//work & add more to footer branch Moork & commit on main branch 1 move to footer branch ·git switch -c footer · git rebase main I work be add a footer in feature branch MNEVER REBASE WHEN "gt commit - am "add footer text YOU ARE ON 'MAIN' BRANCH · git switch main , NEVER REBATE COMMITT "work & add hero section on main branch THAT YOU HAVE SHAREN git switch footer PUSHED TO GITHUB git merge main "work & add more info, in footers I'vif there is more work on main, do more merge Mget on footer branch & rebase ·git rebase main

-> Rebase command is done from side branch & not 'main' branch Now rebase is done from other branches only, then in git growth you can see that all the branches are merged into I line. Then suppose you go to main branch & do changes, again you can commit it & see that another branch is being shown.

Basically two howe another commit while merging branches & now we don't have that after rebasing. -) If conflicts occur while rebasing -> read errors; a git rebase moun // conflict occurs _ sto abort & get back to state before "git rebase" (rebase - in halt state) Honce conflict solved of git add/rm < conflicted files) then git rebase -- continue ⇒ Github Discussion: → Git is a software & Gitthub is a service to host git online {Gitthub = collaboration + Backup + Open Source} · Greate a new repo. Charallely do "git init" in whatever file yourne working) · No need to add readme file (if we already have file in our vscode & it is git initialized) (readme md) markdown · git remote -v : checks if there are any remote reports set up and.

dop cupty means no remote reports set up and. So now to add connection we do: / git remote add name un Soit remote add origin https://github.com/-git git remote rename obliname neuname : if we want to rename our old name (origin) to new name. git remote remove name: If we want to remove the name. swhere I have to push branchname which you want to push ·git push <remote> <branch>: : It will push your code to githus but when next time you do 'git push', when you updated files & want to push, then that command git push origin main we can push any branch 'git push' won't work, as there is connection established yet. ·git push - u origin main: '-u' setup an upstream that allow you to run future command 'git push' & it push the code directly to github.

git clone (URL): » of any repo. Se now we can bring that repo.) code onto our system. when you clone a reportion get just main branch connected, rest of remote branches are not configured: git switch branch name .git branch - Y: connects remote branch to local. => Work Stage [local Repo] Remote Repo 3 - git fetch -> (get info. but don't)

put in my work git pull put info. & add it in my work) - git pull = git fetch + git merge -) git pull origin main (changes will be merged to main) > Github features on website like: Adding collaborators Readme file · Markdown format · Adding Gists Kind of like virtual machines, · Codespaces · Den Container but here it's configured based on what kind of code I am having. Ex: I have Golang repo then while opening this, it will have configuration & installation done already. -> Pork the repo; create branchs make change, now we can > Open Source: · Talk · Open an issue do 'git push origin branch name · Get the issue assigned ; then in Github you can · Work & add value compare & pull request . Make PR & iterate over it · Hour Patience → git revert: → purpose: reverts a specific commit by creating a new commit that unders the changes made by the specified commit. Economit history not modified? · git reset: -> purpose: resets the current branch to a specific commit, discouncil, any commits after that point.