

What are we going to see in this session?

- What is Head?
- Git Restore
- Git Checkout
- Git Reset
- Ignoring files by Git





What is Head?

- You can see the "pointer" head from command "git log"
- This actually helps us to understand which commit we are using currently.
- By default head \rightarrow points to the last commit.
 - If in-case we go back to any of the previous state of project then head will point to the relevant commit.
- You can also learn more details about of head using command "git show HEAD"
- This command is going to provide more visibility about your commit and as well as commit difference (which we can see at later point)
- Note: You can also view this output by providing head ID or array number.
 - "git show 0d196fa"
 - "git show HEAD~1"



Git Restore

- Let's say for example we are modifying the project file. (Adding some line into it)
- As a result of modification you can see file status as modified in "git status" command.
- Now if in-case you need to restore the change back you can simply use command "git restore filename"
- If in-case you need to restore multiple file changes you can use commands "git restore . (or) git restore *



Git Checkout

- Let see how to undo things using "git checkout"
- Using this command we can go back in time & check different state of our files.
- If you want to move previous state just use command "git checkout <head-id>"
- This command is going to move your head to previous state, but not going to delete the files. You can check in which state you are using command "git status"
- You can revert back to the current state using command "git checkout master"
- Note: Its very safe to use git checkout to go back in time because its read only.
 - This can proved by going back to previous state file and modify something and make a commit. However this commit is not going to result anywhere.
 - ✓ git checkout <head-id>
 - Modify the file
 - Stage the file & make test commit
 - "git status & git log" command is going to show you the commit.
 - Go back to current state "git checkout master" your new test commit will be no longer exist
- Checkout also allows us to move between different branches. (which we can see at later point)



Git Reset

- Git reset is going to help us to delete the commits which we made.
- Git reset has 3 different flags. (soft, mixed, hard)
 - Create sample file and do stage & commit the file.
 - Lets try "git reset --mixed" which is default flag, if incase you are not specifying anything.
 - ✓ git reset --mixed <head-id> this just going to un stage the files and also remove the commit.
 - ✓ git reset --soft <head-id> this just going to remove the files from commit and keep it in staging area.
 - ✓ git reset --hard <head-id> this command is going to be bit dangerous which is going to delete the file permanently from workspace.



Git ignore

- You might be in an situation to maintain some files not tracked by Git. To solve this kind of situation git has an solution called ".gitignore"
 - Create file called .gitignore under your project directory.
 - Create some sample files which need to be ignored & update those file details in .gitignore
- Note: Same procedure might not work if incase you are trying with existing files which is already managed by git. Because those files are exist before we create gitignore file.
 - ✓ Modify the existing file which is tracked by git & try update that file details in .gitignore.
- Ignore complete folder
 - Create folder with couple files underneath.
 - One way is providing the absolute details in .gitignore like below # Auto generated files auto-generated-files/a.txt auto-generated-files/b.txt Else, you use * to notify all the files under the folder auto-generated-files/*



End of this topic!

Any questions?

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