

GIT CHEET SHEET

- 1) Verifying the installation
 - a. git -version
- 2) Change the defaultbranch name of the Main from Master use:
 - a. git config --global init.defaultBranch main
- 3) Configuring the username and email ID
 - a. git config --global --list
 - b. git config --global user.name "Username"
 - c. git config --global user.email "Email"
- 4) Innitialize repo
 - a. git init
- 5) Move the file from untracked/unstaged to staged area
 - a. single file= git add <file name>
 - b. multiple files= git add.
- 6) Commit
 - a. New file= git commit -m "message"
 - b. modified file= git commit -am "message"
- 7) Remote Repo
 - a. Connect Local repo with Remote repo:- git remote add origin <repo url>
 - b. Verify remote connections:- git remote -v
 - c. Remove remote repo:- git remote remove <name of the remote repo>

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8) Log commands

- a. Commit list in details= git log
- b. Commit list in one line= git log --oneline
- c. List of all the authors within the project (s=summary and n = numbered) = git shortlog -s -n
- d. Commits list by author= git log --author <Author Name>
- e. OR = git log --author=<2/3 starting letters>
- f. Logs of specific file= git log --author <Author Name> <filename>
- g. Logs for a specific file= git log -p <fileName>
- h. Decorated view of log= git log --all --decorate --oneline --graph
- i. OR= git log --graph --oneline
- j. Logs from remote repository git log reponame/branchname
- k. Log view of specific commit= git show <comitid> --stat
- I. View last few commits= git log -< no of commits you want to view>
- m. View logs between specific dates= git log --after <YYYY-MM-DD> --before <YYYY-MM-DD>
- n. Detailed view of logs in one line= git log --stat --oneline
- o. To read the total count of commits in the repo:- git log --oneline | wc -l
- 9) Reflog Command
 - a. To view the backend log with even the hidden steps we can use:- git reflog
 - b. To see all the details of reflog use git reflog show --all
- 10) Renameing a file from git
 - a. git mv <old name> <new name>
- 11) View the list of configuration
 - a. git config --global --list
- 12) Alias:
 - a. git config --global alias.br branch
 - b. git config --global alias.ci commit
 - c. git config --global alias.st status
 - d. git config --global --unset "alias.name"
 - e. git config --global --unset-all

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13) Diff commands:-

- a. Difference between two commits= git diff <old commit> <new commit>
- b. Modified VS Committed = git diff <filename>
- c. Staged VS Commited = git diff --staged <Filename>
- d. Staged VS Specific Commit = git diff <commit ID>
- e. Remote VS Local = git diff origin/master

14) Pushing Changes to remote Repo

- a. 1st time push= git push -u origin <remote branch>
- b. multiple times push= git push

15) Cloning a repo

- a. Complete repo= git clone <URL of the repo>
- b. Only a branch from the repo= git clone -b <Branch name><Repository URL>

16) View List of Files

- a. List all files git Is-files
- b. List stagged files git ls-files --stage
- c. List of file in a directory git ls-files --directory <dir name>

17) Configure git ignore to your system

a. git config --global core.excludesFile <PATH TO .GITGNORE FILE>

18) Checkout Commands:-

- a. To switch to a branch = git checkout <branchname>
- b. To switch to a remote branch = git checkout <remotebranch>
- c. To switch to a commit git checkout commitid
- d. To switch to a tag git checkout tagname

19) Clean Command

- a. To view the implication of the clean command Git clean ---dry-run
- b. To force delete the file from the repo Git clean -f
- c. To delete dir Git clean -f -d
- d. To delete all the files and dir Git clean -f -d
- e. To delete all the ignored file in one go Git clean -f -x
- f. To delete all the files and dir incliding ignored files Git clean -f -d -x
- g. To delete a specific file git clean -i >> option 4 >> use yes or no for selecting right file for deletion.



20) RM Command

- a. Removes the file from the git and the file system git rm -f <filename>
- b. Removes the file only from git repo but actual file will still be there in the project git rm --cached <filename>

21) Reset Command

- a. Move the file to Staging area= git reset --soft <commit-id>
- b. Move the file to unstaged area= git reset --mixed <commit-id>
- Move the files out of records or reverts the file to the stage of previous committed
 stage git reset --hard <commit-id>

22) Revert Command

- a. git revert < commitID>
- b. Note:-- when you want to revert from 5th commit to 3rd commit then pass the commit id of 4th Commit to revert to the 3rd commit stage.

23) Amend Command

a. git commit --amend -m "message"

24) Tag Command

- a. Annotated tag= git tag -a <tagname> <commit-id> -m "Message here"
- b. Lightweight tag= git tag <tag name> <commit-id>
- c. Get the list of tags= git tag --list
- d. Get the list of tags with their messages= git tag -n
- e. Delete a tag= git tag -d <tagname>
- f. View a specific tag= git show <tagname>
- g. Pushing tags to remote repo= git push -- tags
- h. Delete tag from remote= git push --delete origin <tagname>



25) Stashing Commands

- a. To stash all the files git stash
- b. To show the list of files stashed git stash list
- c. To show the latest stash or files stashed at 0th position git stash show
- d. To show the stashed records at position 1 git stash show $\{1\}$ or use git stash show $\{5\}$.
- e. To stash with a message Git stash save "message"
- f. To get the files back to work:- Git stash pop
- g. To get back the stashed files at position 1:- git stash pop {1}
- h. This will remove the files from the position 1 and it will also delete the change completely and u cannot undo this:- git stash drop {1} / {stash-id}
- i. Remove all the stashed files in one go:- git stash clear
- j. Stash Show more details:- git stash show -p
- k. Stashing a single file:- git stash -- <filename>

26) Git Branching

- a. I want to see the branches available in this repository then:- Git branch
- b. I want to see all the branches including local and remote branches:- Git branch -a
- I want to see all the branches and their last/latest commits along with their message:- Git branch -v
- d. Delete a branch:- Git branch <branchname> -d
- e. Rename a branch:- Git branch -m <oldName> <newName>
- f. If you are on the branch you want to rename:- git branch -m new-name
- g. to check the parent of a branch:- git log -g <branch name>
- h. To view only the remote branch list:- git branch -r
- To create a branch and move inside the newly created branch in one go:- git checkout -b <branch name>
- j. Change the default branch:- git push --set-upstream origin
branchname>

27) Git Merging

a. To merge the branch:- git merge <branch name>

28) Git rebase

To rebase the branch from current parent to new parent commit:- git rebase
 stranch name