GIT Tutorial

This is enough git command line for a software developer to use \bigcirc

To configure the user name and email:
\$ git configglobal user.email <user email=""></user>
\$ git configglobal user.name <user name=""></user>
Show all Git config properties throughout all of the variously scoped Git file:
\$ git configlist
Show the working tree status:
\$ git status
Create an empty Git repository or reinitialize an existing one:
\$ git init
ş git illit
The new (or untracked), deleted and modified files will be added to your Git staging area:
\$ git adda or .
Captures a snapshot of the project's currently staged changes:
\$ git commit
Record changes to the repository:
\$ git commit -m " <initial commit="">"</initial>
To show the working tree status:
\$ git status
Adds a change in the working directory to the staging area
\$ git add <file name=""></file>
To chack the file in any particular folder:
To check the file in any particular folder:

Cloning a Remote Git Repository from GitHub:-To removes specific files or a group of files from a Git repository: \$ rm -rf .git To clone a repo from the Github into a new directory: \$ git clone If you want to change the name of the cloned repo: \$ git clone url <new name> To change the directories: \$ cd <directory name> List the content: \$ ls Present working directory: \$ pwd you should change the commit name after any change in the file shift+insert to paste the copied text on gitbash .gitignore: Ignoring Files in Git To generate the new blank file: \$ touch <file name> Git will not track files and folders specified in .gitignore. However, the .gitignore file itself is tracked by Git.

Git Diff: Showing Changes Between Commits/Staging Area & Working Directory:-To compares the working directory with staging area: \$ git diff **Skipping The Staging Area:-**To skip the staging area of tracked file: \$ git commit -a -m "<commit>" Moving and Renaming Files In Git:-To remove files from the working tree and from the index: \$ git rm <file name> To rename a file, a directory, or a symlink: git mv <old name> <new name> To untrack the file from staging area: \$ git rm--cached **Viewing & Changing Commits In Git:-**To show commit logs: \$ git log The git log patch command displays the files that have been modified. It also shows the location of the added, removed, and updated lines: \$ git log -p

The log command displays the files that have been modified. It also shows the number of lines and a summary line of the total records that have been updated:

To show the history of n number of commit change:

\$ git log -p <-n number>

To show all the history of commit in one line:
\$ git logpretty=oneline
To show all the history of commit in short:
\$ git logpretty=short
To show all the history of commit in detail:
\$ git logpretty=full
Filtering the Commit History:
By Date:
\$ git logsince= <number days="" of=""></number>
\$ git logsince= <number months="" of=""></number>
\$ git logsince= <number of="" years=""></number>
By author name, mail etc:
\$ git logpretty=format: "%h %an" [h- commit hash an- author name ae- author email]
To modify the most recent commit:
\$ git commitamend
Vim editor fill open up if you are using Git Bash
Use
Esc: to type
i: to edit
wq: to exit

\$ git log--stat

Unstaging & Unmodifying Files In Git:-

To unstage any file: \$ git restore --staged filename To unstage or even discard uncommitted local changes: \$ git restore <file name> To restore/unmodify, match with the last commit: \$ git checkout --<file name> To match the working directory from last commit: \$ git checkout -f **Working with Remote Repositories:-**Let you create, view, and delete connections to other repositories: \$ git remote To push file to remote: \$ git remote add <connection name> <website url> To show connection name with URL: \$ git remote -v **Setting Alias In Git:**command:

If you don't want to type the entire text of each of the Git commands, you can easily set up an alias for each

\$ git config --global alias.co checkout

\$ git config --global alias.br branch

\$ git config --global alias.ci commit

\$ git config --global alias.st status

\$ git config --globalalias.ustaged 'restore --staged -'

Branching (To avoid changes in master branch, people create branches and work in that branch)

To create new branch
\$ git checkout -b <new-branch-name></new-branch-name>
To switch into different branch
\$ git checkout <branch-name></branch-name>
\$ git checkout \branch-hame>
To check all the branches in git
\$ git branch
To merge branch :
\$ git merge <branch be="" merge="" name="" to=""></branch>
Resolving Merge Conflicts
To show branch and the last commit message and commit hash:
\$git branch -v
To show the already merged branch:
\$ git branchmerged
y 5/t Dranen Mergea
To show the branch that is not merged:
\$ git branchno-merged
To delete the branch(gives warning if the branch is not merged):
\$git branch -d <branch name=""></branch>
To forcefully delete branch with no error:
\$ git branch -D <branch name=""></branch>

Conflict resolution master

Pushing Git Branches To Remote Repositories:-

To push the branch:
\$ git push <connection name=""> <branch name=""></branch></connection>
To change the branch name on remote:
\$ git push <connection name=""> <old branch="" name=""> :<new branch="" name=""></new></old></connection>

To rename the connection on remote:

To delete the branch on remote:

\$ git remote rename <old name > <new name>

\$ git push -d <connection name> <branch name>