











Git | GitHub Handbook

Command	Use
# How to install git in your machine? # Installation for Windows / Mac O.S. / Linux / Unix Machine	 Download Git setup from the following url and install it in your machine. https://git-sem.com/downloads Once Git is installed, you can check the Git version by following command. gitversion If you want any help in Git, use the following command. git help
# How to create a GitHub Account?	You can create a GitHub account by following the URL. https://github.com/signup?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home
# How to configure a GitHub account?	1. Open GitBash in your local machine and type following command. git config user.name <your git="" username=""> (to set up your GitHub username) e.g. git configglobal user.name mrdeployment git config user.name (to check username is configured or not) git configglobal user.email <your email="" github="" registered=""></your></your>













Important Git | GitHub commands

git init

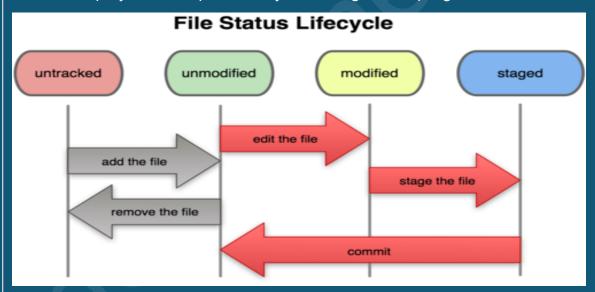
• This command is used to **initialize an empty repository**.

Is-lart

This command is used to display all hidden folders.

git status

- This Git command used to quickly check the status of your Git repository.
- It shows which files have been modified, which files are staged for the next commit, and which files are untracked.
- It helps you to keep track of your changes and progress.



Few terminologies to know

Untracked: File which doesn't have any relation with git.

It means you cannot track this file with the help of git.

Unmodified: It means Git says your **file is ready to commit.**

Modified : It means any changes happens after staged or

commit, can be re-pushed for commit

Staged : It is like a plan where you want to push file for

commit. Or We can say, the file which is staged is

ready to commit.













git add	This command is used to add a staged file for commit.
	e.g.
	git add index.html (index.html is file which is to be added to commit)
git add -A	This command is used to add all staged files together to commit. e.g. git add -A
git commit	The command itself says the meaning, It is used to commit files.
	Note: When you do first commit, it will open vim editor, here type following message on top "initial commit" to show what changes you made.
Note: It is suggested that, keep using the git status command to know the changes.	
git commit -m "your message"	 This command is used to commit without having/opening vim editor.
	e.g. git commit -m "my second commit"
git chckout <filename></filename>	This command is used to go back to your file's previous action. It works like an undo command.
	e.g. git checkout index.html
git checkout -f	This command is used to go back to all of your file's previous actions together.
	e.g. git checkout -f
git clean	Removes untracked files from the working directory.
git log	 This command is used to see what commit you have made. In short, your commit details.
	e.g. <mark>git log</mark>













git log -p -n	 This command is used to filter your last "n" numbers of commits.
	e.g. <mark>git log -p -5</mark> (it will show the last 5 commits details)
git log oneline	This command is used to see all commits in one line.
git diff	It will compare the working tree with the staging area.
	e.g. <mark>git diff</mark>
git diffstaged	It will compare the staging area with the last commit.
	e.g. git diffstaged
git rm <filename></filename>	This command will remove files from the git stage as well from your local machine.
	e.g. <mark>git rm index.html</mark>
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git rmcached <filename></filename>	 This command will remove files only from the git stage but remain available in your local machine.
	e.g. git rmcached index.html
git status -s	 This command will summarize the status of git. It is also called short status.
	 It indicates your file has been modified in the working tree.
	M - It indicates your file has been modified in the staging area.
C	MM - It indicates your file has been modified in the staging area as well as the working tree.
.gitignore	This file can be created to ignore specific files while we commit anything or clone a repository.
	 e.g. mylogs.log - create this file and mention mylogs.log in the .gitignore file. When you commit anything, whatever you have mentioned in mylogs.log that files will be ignored.













	 Same way if you want to ignore all logs file, mention *.log Similarly, if you can ignore all python files by mentioning *.py If you want to ignore any specific directory, mention mydirectory/
git branch <branchname></branchname>	 This command is used to create a new branch. e.g. git branch feature
git checkout <branchname></branchname>	 If you want to switch to another branch, git checkout command is used. e.g. git checkout main
git merge <branchname></branchname>	 If you want to merge any specific branch to the main branch, git merge command is used. e.g. git merge feature
git branch	 This command is used to see, currently you are in which branch. e.g. git branch * master feature It indicates, currently you are in master branch
git branch -b git branch -b	This command is used to create a new branch and instantly switch to it without having the git checkout command. e.g. git branch -b newbranch
git pull	When you update your local repository from remote. you can use this command. e.g. git pull
git push	This command is used in Git to send your local commits to a













	remote repository.
	e.g. <mark>git push origin mybranch</mark>
git stash	When you want to pause your current work without committing it, you can use this command. e.g. git stash
	 git stash is handy for when you need to switch tasks or branches without committing half-done work.
git clone	This command is used to clone (copy) your remote repository to local machine or cloud machine.
	e.g.
	git clone https://github.com/asfaqshekh/DevOps-Master-4sure.git
git reset	This command is used to remove last commit and if it is having bug and push git head (pointer) to last to last commit (no bugs)
	e.g. git reset hard <commitid></commitid>
	Note : It is used in local machine in real environment practice
git revert	This command will create a new commit by passing on the next commit (bugs) and function it properly.
	e.g. git revert <commitid></commitid>
	Note : This command is used in a remote repository in a real environment.