

# GIT COMMANDS



<code>git show</code>	# shows one or more objects (blobs, trees, tags and commits).
<code>git diff</code>	# show changes between commits, commit and working tree
<code>git diff HEAD</code>	#show changes between working directory vs last commit
<code>git diff --staged HEAD</code>	#show changes between stage area vs last commit
<code>git diff --color</code>	# show colored diff
<code>git diff --staged</code>	# Shows changes staged for commit
<code>git tag</code>	# shows all the tags
<code>git tag -a v1.0 -m "msg"</code>	# creates an annotated tag
<code>git show v1.0</code>	# shows the description of version-1.0 tag
<code>git tag --delete v1.0</code>	# deletes the tag in local directory
<code>git push --delete my-remote v1.0</code>	# deletes the tag in my-remote (be carefore to not delete a branch)
<code>git push my-remote my-branch v1.0</code>	# push v1.0 tag to my-remote in my-branch
<code>git fetch --tags</code>	# pulls the tags from remote
<code>git pull my-remote my-branch</code>	# pulls and tries to merge my-branch from my-remote to the current branch git pull = git fetch && get merge
<code>git clean -f</code>	# clean untracked files permanently
<code>git clean -f -d/git clean -fd</code>	# To remove directories permanently
<code>git clean -f -X/git clean -fX</code>	# To remove ignored files permanently
<code>git clean -f -x/git clean -fx</code>	# To remove ignored and non-ignored files permanently
<code>git clean -d --dry-run</code>	# shows what would be deleted

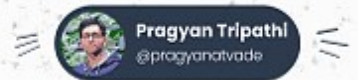
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<code>git log</code>	# shows the log of commits
<code>git log --no-pager</code>	# shows the log of commits without less command
<code>git log --oneline</code>	# shows the log of commits, each commit in a single line
<code>git log --oneline --graph --decorate</code>	# shows the log of commits, each commit in a single line with graph
<code>git log --since=&lt;time&gt;</code>	# shows the log of commits since given time
<code>git log -p &lt;file_name&gt;</code>	# change over time for a specific file
<code>git log &lt;Branch1&gt; ^&lt;Branch2&gt;</code>	# lists commit(s) in branch1 that are not in branch2
<code>git log -n &lt;x&gt;</code>	# lists the last x commits
<code>git log -n &lt;x&gt; --oneline</code>	# lists the last x commits, each commit in single line
<code>git grep --heading --line-number '&lt;string/regex&gt;'</code>	# Find lines matching the pattern in tracked files
<code>git log --grep='&lt;string/regex&gt;'</code>	# Search Commit log
<code>git reflog</code>	# record when the tips of branches and other references were updated in the local repository.
<code>git ls-files</code>	# show information about files in the index and the working tree
<code>git commit -m "msg"</code>	# commit changes with a msg
<code>git commit -m "title" -m "description"</code>	# commit changes with a title and description
<code>git commit --amend</code>	# combine staged changes with the previous commit, or edit the previous commit message without changing its snapshot
<code>git commit --amend --no-edit</code>	# amends a commit without changing its commit message
<code>git commit --amend --author='Author Name &lt;email@address.com&gt;'</code>	# Amend the author of a commit
<code>git push my-remote my-branch</code>	# pushes the commits to the my-remote in my-branch (does not push the tags)
<code>git revert &lt;commit-id&gt;</code>	# Undo a commit by creating a new commit



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<code>git init</code>	# initiates git in the current directory
<code>git remote add origin https://github.com/repo_name.git</code>	# add remote repository
<code>git clone &lt;address&gt;</code>	# creates a git repo from given address (get the address from your git-server)   <code>git clone &lt;address&gt; -b &lt;branch_name&gt; &lt;path/to/directory&gt;</code>
<code>git clone &lt;address&gt; -b &lt;branch_name&gt; &lt;path/to/directory&gt;</code>	# clones a git repo from the address into the given directory and checkout's the given branch
<code>git clone &lt;address&gt; -b &lt;branch_name&gt; --single-branch</code>	# Clones a single branch
<code>git add &lt;file_name&gt;</code>	# adds(stages) file.txt to the git
<code>git add *</code>	# adds(stages) all new modifications, deletions, creations to the git
<code>git reset file.txt</code>	# Removes file.txt from the stage
<code>git reset --hard</code>	# Throws away all your uncommitted changes, hard reset files to HEAD
<code>git reset --soft &lt;commit_id&gt;</code>	# moves the head pointer
<code>git reset --mixed &lt;commit_id&gt;</code>	# moves the head pointer and then copies the files from the commit it is now pointing to the staging area, # the default when no argument is provided
<code>git reset -hard &lt;commit_id&gt;</code>	# moves the head pointer and then copies the files from the commit it is now pointing to the staging area # and working directory thus, throw away all uncommitted changes
<code>git rm file.txt</code>	# removes file.txt both from git and file system
<code>git rm --cached file.txt</code>	# only removes file.txt both from git index
<code>git status</code>	# shows the modifications and stuff that are not staged yet
<code>git branch</code>	# shows all the branches (current branch is shown with a star)
<code>git branch -a</code>	# shows all the branches local and remote
<code>git cherry-pick &lt;commit_id&gt;</code>	# merge the specified commit
<code>git cherry-pick &lt;commit_id_A&gt;^ ..&lt;commit_id_B&gt;</code>	# pick the entire range of commits where A is older than B ( the ^ is for including A as well )

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<code>git config --global --list</code>	# lists the git configuration for all repos
<code>git config --global --edit</code>	# opens an editor to edit the git config file
<code>git config --global alias.&lt;handle&gt; &lt;command&gt;</code>	# add git aliases to speed up workflow , eg.
<code>git config --global core.editor &lt;editor_name&gt;</code>	# config default editor
<code>git archive &lt;branch_name&gt; --format=zip -- output=./&lt;archive_name&gt;.zip</code>	# create an archive of files from a named tree
<code>git stash</code>	# stashes the staged and unstaged changes (git status will be clean after it)
<code>git stash -u</code>	# stash everything including new untracked files (but not .gitignore)
<code>git stash save "msg"</code>	# stash with a msg
<code>git stash list</code>	# list all stashes
<code>git stash pop</code>	# delete the recent stash and applies it
<code>git stash pop stash@{2}</code>	# delete the {2} stash and applies it
<code>git stash show</code>	# shows the description of stash
<code>git stash apply</code>	# keep the stash and applies it to the git
<code>git stash branch my-branch stash@{1}</code>	# creates a branch from your stash
<code>git stash drop stash@{1}</code>	# deletes the {1} stash
<code>git stash clear</code>	# clears all the stash
<code>git rebase -i &lt;commit_id&gt;</code>	# Rebase commits from a commit ID
<code>git rebase --abort</code>	# Abort a running rebase
<code>git rebase --abort</code>	# Continue rebasing after fixing all conflicts