



# GIT COMMANDS

EVERYTHING YOU NEED



Shwetank Singh  
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# git init

*git init*

## Initialize a new Git repository



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# git clone

*git clone*

*<https://github.com/username/repository.git>*

Clone a repository into a new directory



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# git add

*git add README.md*

Add file contents to the index



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# git mv

*git mv file\_from file\_to*

Move or rename a file, a directory, or  
a symlink



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# git rm

*git rm filename*

Remove files from the working tree  
and from the index



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# git commit

*git commit -m "Commit message"*

Record changes to the repository



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# git status

*git status*

## Show the working tree status



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# git branch

*git branch -a*

List, create, or delete branches



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# git checkout

*git checkout branch\_name*

Switch branches or restore working  
tree files



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# git merge

*git merge feature*

Join two or more development histories together



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# git rebase

*git rebase master*

Reapply commits on top of another  
base tip



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# git tag

*git tag -a v1.4 -m "my  
version 1.4"*

Create, list, delete or verify a tag  
object signed with GPG



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# git fetch

*git fetch origin*

Download objects and refs from  
another repository



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# git pull

*git pull origin master*

Fetch from and integrate with  
another repository or a local branch



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# git push

*git push origin master*

Update remote refs along with  
associated objects



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# git stash

*git stash save "work in progress"*

Stash the changes in a dirty working directory away



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# git log

*git log --oneline*

## Show commit logs



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# git diff

*git diff HEAD~1*

Show changes between commits,  
commit and working tree, etc



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# git reset

*git reset --hard HEAD~1*

Reset current HEAD to the specified  
state



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# git remote

*git remote -v*

Manage set of tracked repositories



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# git submodule

*git submodule update --init*

Initialize, update or inspect  
submodules



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# git bisect

*git bisect start*

Use binary search to find the commit  
that introduced a bug



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# git grep

*git grep "foo()"*

Print lines matching a pattern



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# git cherry-pick

*git cherry-pick 4a20915*

Apply the changes introduced by  
some existing commits



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# git revert

*git revert 3e6b2a1*

Revert some existing commits



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# git archive

*git archive --format=tar  
master*

Create an archive of files from a  
named tree



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# git clean

*git clean -f*

Remove untracked files from the  
working tree



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# git describe

*git describe --tags HEAD*

Show the most recent tag that is  
reachable from a commit



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# git show

*git show v1.2.1*

Show various types of objects



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# git config

*git config user.name "John Doe"*

Get and set repository or global options



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# git ls-tree

*git ls-tree HEAD*

List the contents of a tree object



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# git cat-file

*git cat-file -p 2b5bfdf*

Provide content or type and size  
information for repository objects



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# git merge-tree

*git merge-tree*

**4b825dc642cb6eb9a060e54**

**bf8d69288fbbee4904** show the changes between two tree objects



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# git verify-tag

*git verify-tag v1.4.0*

Verify the GPG signature of a tag



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# git blame

*git blame README.md*

Show what revision and author last modified each line of a file



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# git rev-parse

*git rev-parse HEAD*

Parse revision (or other objects)  
identifiers



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# git shortlog

*git shortlog*

Summarize 'git log' output



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# git show-ref

*git show-ref --heads*

List references in a local repository



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# git pack-refs

*git pack-refs --all*

Pack heads and tags for efficient  
repository access



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# git filter-branch

*git filter-branch --env-filter*

Rewrite branches



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# git reflog

*git reflog show master*

Show reflog information



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git rebase --

interactive  
*git rebase --interactive*

*HEAD~3*

Rebase commits interactively



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# git remote

## rename

*git remote rename origin*

## *upstream*

### Rename a remote



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# git bundle

*git bundle create  
repo.bundle HEAD master*

Move objects and refs by archive



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# git fsck

*git fsck*

Verifies the connectivity and validity  
of the objects in the database



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# git prune

*git prune*

Prune all unreachable objects from  
the object database



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# git count-objects

*git count-objects -vH*

Count unpacked number of objects  
and their disk consumption



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# git repack

*git repack -a -d*

Pack unpacked objects in a repository



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# git replace

*git replace*

**5b5b025afb0b4c913b4c338a**

**42934a3863bf3644**  
Replace an object with another  
object



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