Git Commands

git config

```
Usage: git config --global user.name "[name]"
Usage: git config --global user.email "[email address]"
```

This command sets the author name and email address respectively to be used with your commits.

```
edureka@master:~$ git config --global user.name "sahitikappagantula"
edureka@master:~$ git config --global user.email "sahiti.kappagantula@edureka.co"
```

git init

Usage: git init [repository name]

This command is used to start a new repository.

git clone

Usage: git clone [url]

This command is used to obtain a repository from an existing URL.

```
edureka@master:~$ git clone https://github.com/sahitikappagantula/gitexample.git
Cloning into 'gitexample'...
remote: Counting objects: 28, done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 28 (delta 5), reused 28 (delta 5), pack-reused 0
Unpacking objects: 100% (28/28), done.
```

git add

Usage: git add [file]

This command adds a file to the staging area.

edureka@master:~/Documents/DEMO\$ git add project_1

Usage: git add *

This command adds one or more to the staging area.

```
edureka@master:~/Documents/DEMO$ git add *
```

git commit

```
Usage: git commit -m "[ Type in the commit message]"
```

This command records or snapshots the file permanently in the version history.

```
edureka@master:~/Documents/DEMO$ git commit -m "First Commit"
[master (root-commit) aff3269] First Commit
9 files changed, 200 insertions(+)
create mode 100644 project_1/css/site.css
create mode 100644 project_1/fonts/segoeuil.ttf
create mode 100644 project_1/img/cloneWhite.svg
create mode 100644 project_1/img/deployWhite.svg
create mode 100644 project_1/img/lightbulbWhite.svg
create mode 100644 project_1/img/stackWhite.svg
create mode 100644 project_1/img/successCloudNew.svg
create mode 100644 project_1/img/tweetThis.svg
create mode 100644 project_1/img/tweetThis.svg
create mode 100644 project_1/index.html
```

Usage: git commit -a

This command commits any files you've added with the git add command and also commits any files you've changed since then.

```
edureka@master:~/Documents/DEMO$ git commit -a
On branch master
nothing to commit, working tree clean
```

git diff

Usage: git diff

This command shows the file differences which are not yet staged.

Usage: git diff -staged

This command shows the differences between the files in the staging area and the latest version present.

```
edureka@master:~/Documents/DEMO/project_1/css$ git diff --staged
diff --git a/project_1/css/site.css b/project_1/css/site.css
index 25606b6..fba307d 100644
--- a/project_1/css/site.css
+++ b/project_1/css/site.css
@@ -1,5 +1,5 @@
html,
-/* This the css file for the web page */
+/* This the css file for the web page we are using for our DEMO */
body {
    height: 100%;
    width: 100%;
```

Usage: git diff [first branch] [second branch]

This command shows the differences between the two branches mentioned.

git reset

Usage: git reset [file]

This command unstages the file, but it preserves the file contents.

git status

Usage: git status

This command lists all the files that have to be committed.

git rm

Usage: git rm [file]

This command deletes the file from your working directory and stages the deletion.

```
edureka@master:~/Documents/DEMO/project_2$ git rm example.txt
rm 'project_2/example.txt'
```

Git rm -r FloderName

This command used to delete entire folder

git log

Usage: git log

This command is used to list the version history for the current branch.

```
edureka@master:~/Documents/DEMO$ git log
commit 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7 (HEAD -> master)
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:25:17 2018 +0530

Changes made in HTML and CSS file

commit b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:13:29 2018 +0530

CHanges made in HTML file

commit aff3269a856ed251bfdf7ef87acb1716a2a9527a
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:07:28 2018 +0530

First Commit
```

Usage: git log -follow[file]

This command lists version history for a file, including the renaming of files also.

```
edureka@master:~/Documents/DEMO$ git log --follow project 1
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:50:08 2018 +0530
    New file added
 commit 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:25:17 2018 +0530
    Changes made in HTML and CSS file
 commit b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:13:29 2018 +0530
    CHanges made in HTML file
 ommit aff3269a856ed251bfdf7ef87acb1716a2a9527a
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:07:28 2018 +0530
    First Commit
```

git show

Usage: git show [commit]

This command shows the metadata and content changes of the specified commit.

git branch

Usage: git branch

This command lists all the local branches in the current repository.

```
edureka@master:~/Documents/DEMO$ git branch
* master
```

Usage: git branch [branch name]

This command creates a new branch.

edureka@master:~/Documents/DEMO\$ git branch branch_1

Usage: git branch -d [branch name]

This command deletes the feature branch.

edureka@master:~/Documents/DEMO\$ git branch -d branch_1
Deleted branch branch_1 (was be040cc).

git checkout

Usage: git checkout [branch name]

This command is used to switch from one branch to another.

```
edureka@master:~/Documents/DEMO$ git checkout branch_2
Switched to branch 'branch_2'
```

Usage: git checkout -b [branch name]

This command creates a new branch and also switches to it.

```
edureka@master:~/Documents/DEMO$ git checkout -b branch_4
Switched to a new branch 'branch_4'
```

git merge

Usage: git merge [branch name]

This command merges the specified branch's history into the current branch.

```
edureka@master:~/Documents/DEMO$ git merge branch_2
Merge made by the 'recursive' strategy.
project_1/index.html | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
```

git remote

Usage: git remote add [variable name] [Remote Server Link]

This command is used to connect your local repository to the remote server.

edureka@master:~/Documents/DEMO\$ git remote add origin https://github.com/sahitikappagantula/GitDemo.git

git push

Usage: git push [variable name] master

This command sends the committed changes of master branch to your remote repository.

```
edureka@master:~/Documents/DEMO$ git push origin master
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Counting objects: 42, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (32/32), done.
Writing objects: 100% (42/42), 463.10 KiB | 3.62 MiB/s, done.
Total 42 (delta 9), reused 0 (delta 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/sahitikappagantula/GitDemo.git
* [new branch] master -> master
```

Usage: git push [variable name] [branch]

This command sends the branch commits to your remote repository.

```
edureka@master:~/Documents/DEMO$ git push origin master

Jsername for 'https://github.com': sahitikappagantula

Password for 'https://sahitikappagantula@github.com':

Counting objects: 42, done.

Delta compression using up to 2 threads.

Compressing objects: 100% (32/32), done.

Writing objects: 100% (42/42), 463.10 KiB | 3.62 MiB/s, done.

Total 42 (delta 9), reused 0 (delta 0)

remote: Resolving deltas: 100% (9/9), done.

To https://github.com/sahitikappagantula/GitDemo.git

* [new branch] master -> master
```

Usage: git push -all [variable name]

This command pushes all branches to your remote repository.

```
edureka@master:~/Documents/DEMO$ git push --all origin
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/sahitikappagantula/GitDemo.git
 * [new branch] branch_3 -> branch_3
 * [new branch] branch_4 -> branch_4
```

Usage: git push [variable name] :[branch name]

This command deletes a branch on your remote repository.

```
edureka@master:~/Documents/DEMO$ git push origin : branch_2
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Everything up-to-date
```

git pull

Usage: git pull [Repository Link]

This command fetches and merges changes on the remote server to your working directory.

```
edureka@master:-/Documents/DEMO$ git pull https://github.com/sahitikappagantula/gitlearn.git
warning: no common commits
remote: Counting objects: 13, done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 13 (delta 1), reused 10 (delta 1), pack-reused 0
Unpacking objects: 100% (13/13), done.
From https://github.com/sahitikappagantula/gitlearn
* branch HEAD -> FETCH_HEAD
fatal: refusing to merge unrelated histories
```

git stash

Usage: git stash save

This command temporarily stores all the modified tracked files.

```
edureka@master:~/Documents/DEMO/project_1$ git stash save
Saved working directory and index state WIP on branch_2: 5152fcd Index.html updated
```

Usage: git stash pop

This command restores the most recently stashed files.

Usage: git stash list

This command lists all stashed changesets.

```
edureka@master:~/Documents/DEMO/project_1$ git stash list
stash@{0}: WIP on master: 5f6ba20 Merge branch 'branch_2'
```

Usage: git stash drop

This command discards the most recently stashed changeset.

```
edureka@master:~/Documents/DEMO/project_1$ git stash drop stash@{0}
Dropped stash@{0} (5e2cbcea1b37d4e5b8885496<u>4</u>d6165e461e2309d)
```

Delete Remote Branch

Usage: git push origin --delete remoteBranchName