#### **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"
Cit init
```

**Usage: git init [repository name]** 

This command is used to start a new repository.

```
edureka@master:~$ git init /home/edureka/Documents/DEMO
Initialized empty Git repository in /home/edureka/Documents/DEMO/.git/
CIT 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/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
@0 -1,5 +1,5 @0
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%;
    width: ____
```

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

This command shows the differences between the two branches mentioned.

Git Commands With Examples I Edureka

# git reset

# Usage: git reset [file]

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

```
edureka@master:~/Documents/DEMO/project_1/css$ git reset site.css
Unstaged changes after reset:
M          project_1/css/site.css
M          project_1/index.html
```

Usage: git reset [commit]

This command undoes all the commits after the specified commit and preserves the changes locally.

```
edureka@master:~/Documents/DEMO$ git reset 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7
Unstaged changes after reset:
M project_1/css/site.css
M project_1/index.html
```

# **Usage: git reset -hard [commit]**

This command discards all history and goes back to the specified commit.

```
edureka@master:~/Documents/DEMO$ git reset --hard b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
HEAD is now at b01557d CHanges made in HTML file
```

## 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 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
commit 2b4c50431c127a0ae9ede4aace0b8dd1f9fcf2c5
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

commit 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 tag

## **Usage: git tag [commitID]**

This command is used to give tags to the specified commit.

```
dureka@master:~/Documents/DEMO$ git tag b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
dureka@master:~/Documents/DEMO$ git tag
lff3269a856ed251bfdf7ef87acb1716a2a9527a
b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
```

#### 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

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

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

Counting objects: 42, done.

Delta compression using up to 2 threads.

Compressing objects: 180% (32/32), done.

Writing objects: 180% (42/42), 463.18 KiB | 3.62 MiB/s, done.

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

remote: Resolving deltas: 180% (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
Cit pull
```

# Usage: git pull [Repository Link]

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

```
edureka@master:~/Documents/DEMOS git pull https://github.com/sahitikappagantula/gitlearn.git
warning: no common commits
remote: Counting objects: 13, done.
remote: Congressing objects: 100% (8/8), done.
remote: Total 13 (delta 1), reused 10 (delta 1), pack-reused 0
Unpacking objects: 180% (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)
```