

Polarapu Prasad +91-8802399967

How to install Git?

To install Git click on this link https://git-scm.com/downloads Download as per your OS and install.

After installing Git open Git Bash.

Create a New folder and enter into that dir.

First we need to initilize the git repository

-> git init

After that we need to configure user name and email id

- -> git config --global user.name "Polarapu"
- -> git config --global user.email "polarapuprasad@gmail.com"
- -> git config --list (here we can list all configurations)

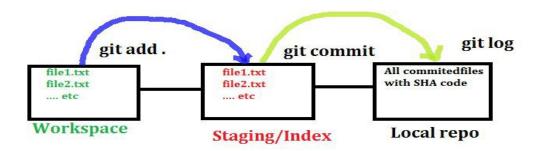
Craete some sample files by using Touch or Vi or Cat commands

EX: Touch file1

vi file2

cat > file3

Git having three stages:



- 1) Workspace
- 2) Index / staging area
- 3) local repository

when we are creating the files it will under workspace area

-> git status (Now it will shows all files in workspace)

All workspace file names in Red colour

- -> git add filename (or)
- -> git add . (here . indicates all files in workspace)
- -> git status

Now all files in Index/staging area

All index/staging area files in Green colour

-> git commit -m "sample message"

All files committed from index area to local repository

- -> git status (here it showing nothing to commit, working tree clean)
- -> git log git log is command here it will displays all log files

How to creatre Github repository

https://github.com/ create a github acount

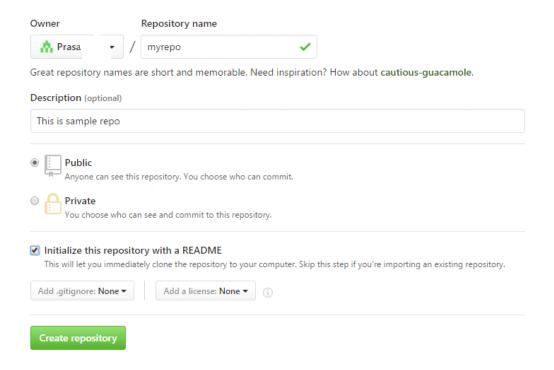
now login to github account

Click on start project option see the below snapshot

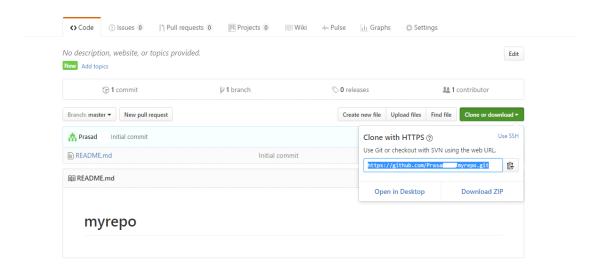


Give the repository name and click on initialize this repository with a README

Click on Create repository



Click on Clone or download tab and copy the path



Now open git, create a new folder like central and enter into central dir

-> git clone path/of/github/repository

Ex:-

git clone https://github.com/Prasadxyz/myrepo.git

Enter into myrepo directrey

Now here create some sample text files

This all files Add and commit

-> git push path/of/github/repo Branch name

(by default Branch name is master)

ex:-

git push https://github.com/Prasadxyz/myrepo.git master

Now goto github and refresh it, here it will displays all files

How to create Branches

By default Branch name is master

- -> git branch (To list all Branches)
- -> git branch branchname
- ex:- git branch polarapu
- -> git branch --list or git branch

```
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)
$ git branch
list
# master

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)
$ git branch --list
list
# master

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)
$ git branch polarapu

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)
$ git branch
list
# master
polarapu

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)
$ |
```

How to switch newley created branch

-> git checkot Branch name

ex:- git checkout polarapu

Now we are in polarapu branch

Please observe the below figure

```
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

$ git branch list  
* master  
polarapu  
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

$ git checkout polarapu  
Switched to branch 'polarapu'  
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)

$ git branch  
list  
master  
* polarapu  
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)

$ | Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)

$ | Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)
```

How to delete a Branch

ex:- git branch -d polarapu

Before deleting branch we need to switch to different branch git checkout master
git branch
git branch -d branch name

```
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)

§ git branch
list
master

* polarapu

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)

§ git checkout master

Switched to branch 'master'

Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

§ git branch -d polarapu
Deleted branch polarapu (was 10440b0).

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

§ git branch
list

* master

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

§ |
```

How to create Branch and How to switched branch with in single step

```
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

$ git branch
list

* master

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (master)

$ git checkout -b polarapu1

Switched to a new branch 'polarapu1'

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu1)

$ git branch
list
   master

* polarapu1

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu1)

$ |
```

git checkout -b New branch name

ex:-

git checkout -b polarapu1

Merge

```
Now create no.of files in two branches with diff names
```

```
ex:- git checkout polarapu (switch into 1<sup>st</sup> branch)
```

Create some files here like file1.txt, file2.txt, etc....

Do git Add and Commit

git checkout polarapu1 (switch into 2nd branch)

Create some files like file5.txt, file6.txt, etc...

Do git Add and commit

- → Now switch into polarapu branch (1st branch) git checkout polarapu issue the Is command
- → git merge other branch name

ex:- git branch polarapu1

```
Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu1)
Sgit checkout polarapu
Switched to branch 'polarapu'

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)
S ls
file1.txt file2.txt file3.txt

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)
S git merge polarapu1
Updating a45491b..ba11146
Fast-forward
file5.txt | 0
file6.txt | 0
file7.txt | 0
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file5.txt
create mode 100644 file6.txt
create mode 100644 file7.txt

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)
S ls
file1.txt file2.txt file3.txt file5.txt file6.txt file7.txt

Prasad@AC-0091 MINGW64 ~/Desktop/central/myrepo1 (polarapu)
S |
```

 \rightarrow Is (here it will display's all file)

please observe the below snapshot.