

Module 2: Version Control with Git

Demo Document - 2

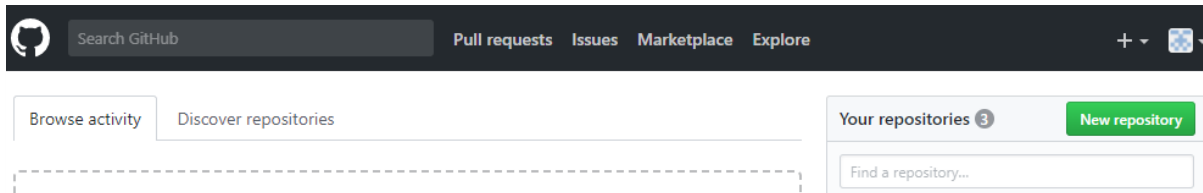
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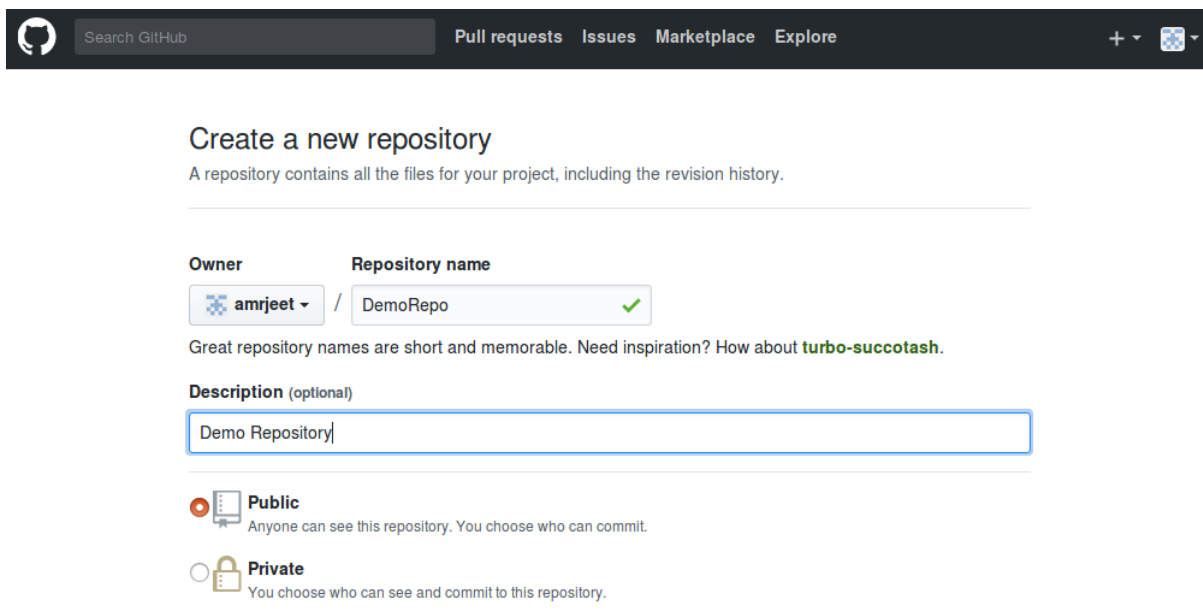
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Demo – 2: Remote Repositories

- Sign-up at **github.com**
- Click on New repository to create a new repository



- Under **Repository name**, give a name to your repository
- Give some Description about your repository under **Description** section.



- For a free repository choose public
- For a private repository a monthly premium needs to be paid
- Finally click on Create Repository

Description (optional)

Demo Repository



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

☐ Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None**

Add a license: **None**

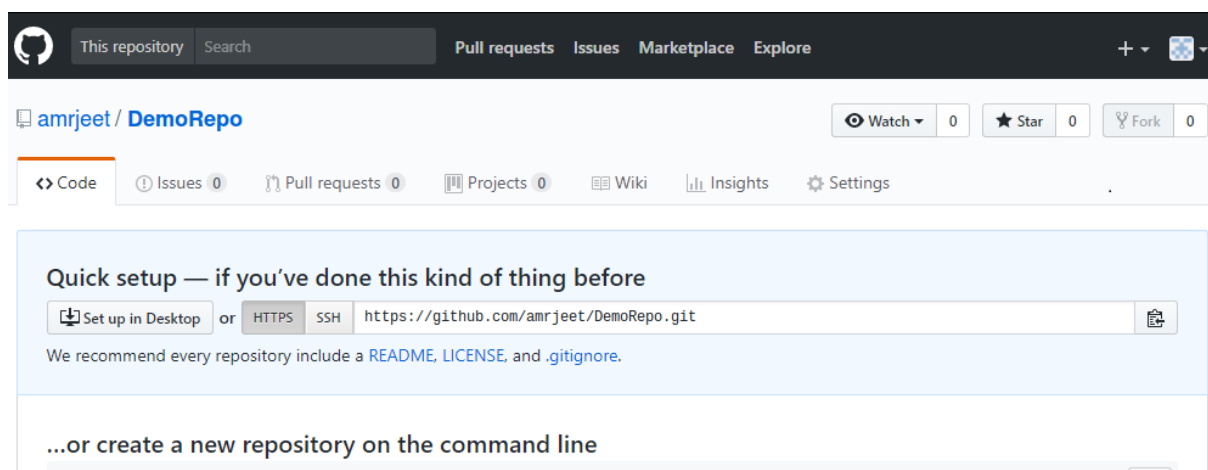


Create repository

- To add Remote repository to local use **git add remote** followed by remote link

Syntax: `git add remote origin <remote link>`

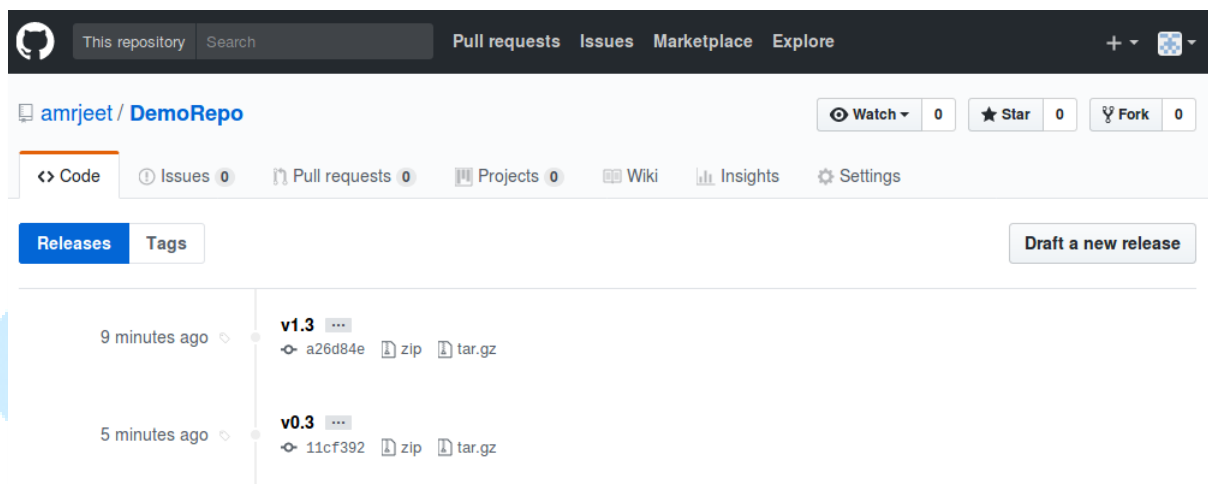
```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git remote add origin https://github.com/amrjeet/DemoRepo.git
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```



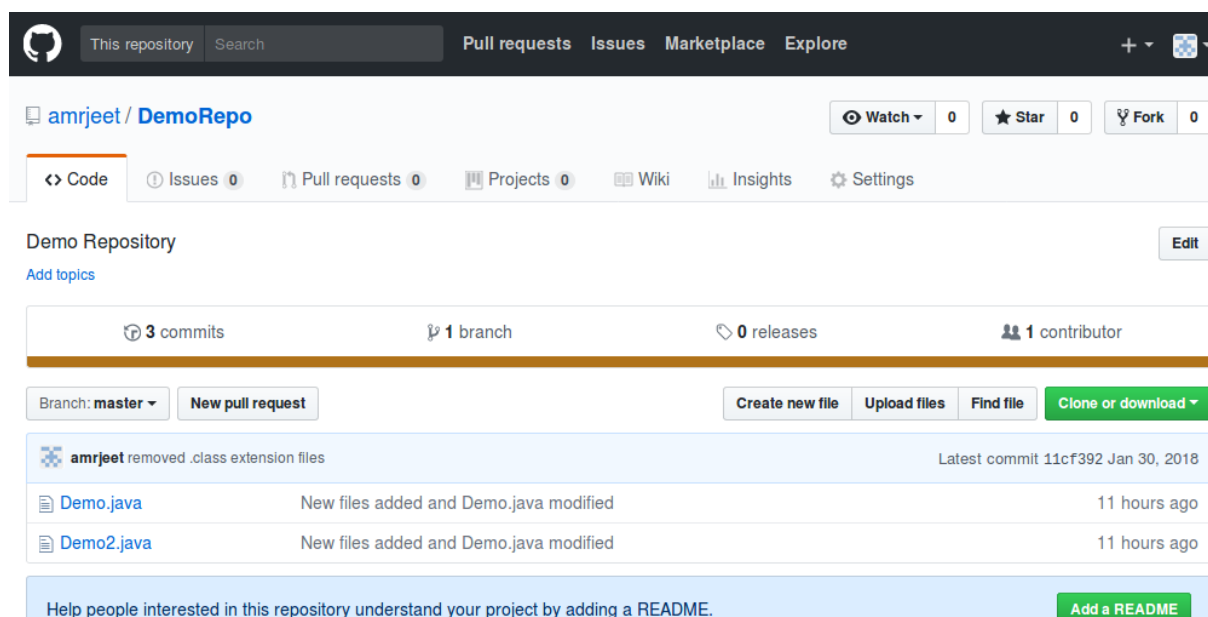
- To push **Local repository** to remote use **push** command
- Syntax: `git push origin master`

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git push origin master
Username for 'https://github.com': amrjeet
Password for 'https://amrjeet@github.com':
Counting objects: 11, done.
Compressing objects: 100% (10/10), done.
Writing objects: 100% (11/11), 1.61 KiB | 0 bytes/s, done.
Total 11 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/amrjeet/DemoRepo.git
* [new branch]      master -> master
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

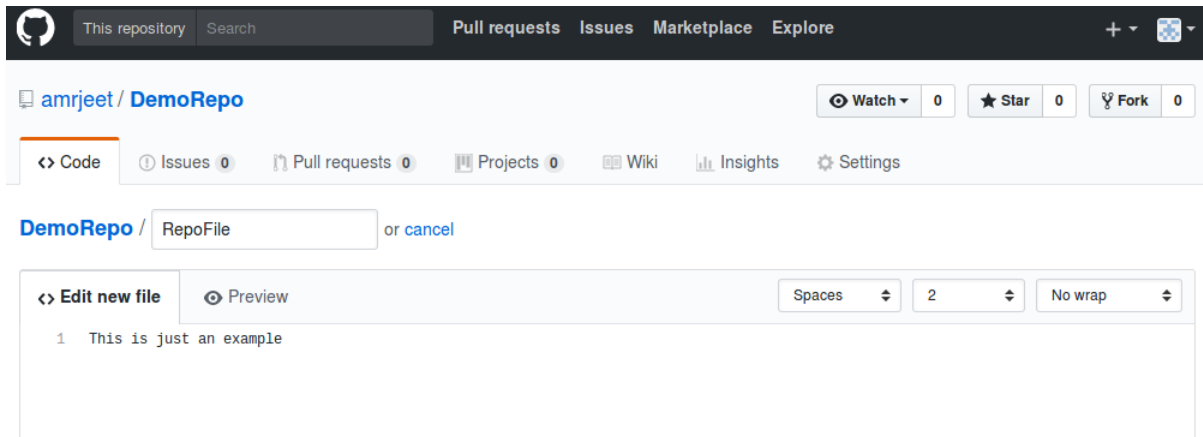
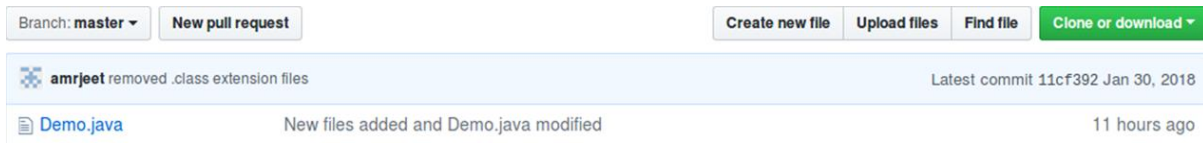
- Tags can be pushed, viewed and shared on Remote
Syntax: `git push origin --tags`



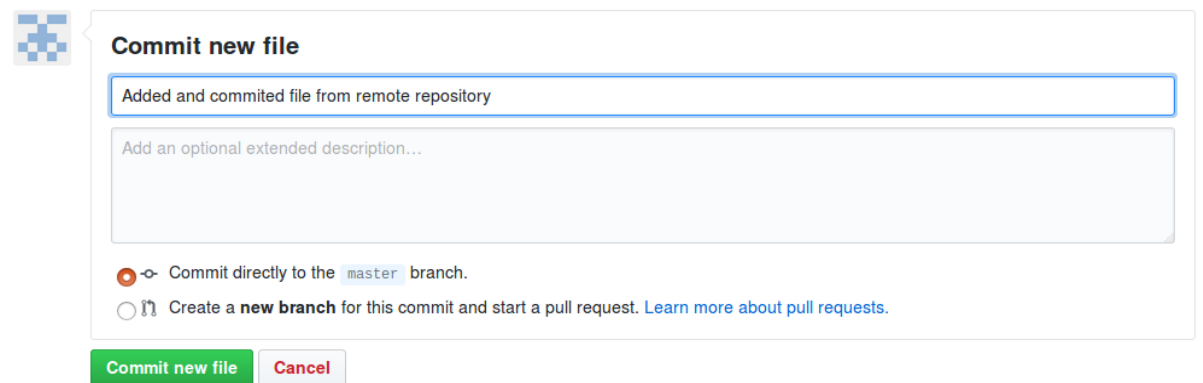
- The changes can be seen in Remote repository

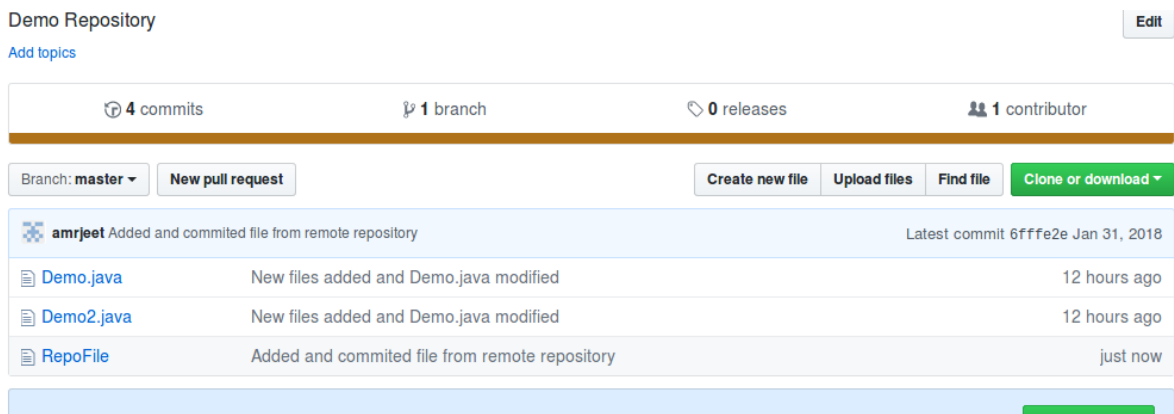


- Files can be created and edited on remote



- These files can then be committed on the remote





- To list all the remotes attached to your Local repository
Syntax: `git remote -v`

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git remote -v
origin  https://github.com/amrjeet/DemoRepo.git (fetch)
origin  https://github.com/amrjeet/DemoRepo.git (push)
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

- **Fetch** command copies the changes from remote to local repository
Syntax: `git fetch origin`

- Fetch **does not** affect the present working directory

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git fetch origin
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ ls
Demo2.class Demo2.java Demo.class Demo.java
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

- Pull copies all the changes from remote to local repository
- It then merges the changes with the present working directory
Syntax: `git pull origin`

```
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ git pull origin
From https://github.com/amrjeet/DemoRepo
* branch          HEAD          -> FETCH_HEAD
Updating 11cf392..6fffe2e
Fast-forward
 RepoFile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 RepoFile
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$ ls
Demo2.class Demo2.java Demo.class Demo.java RepoFile
amrinderjeet@amrinderjeet-VirtualBox:~/Documents/demo$
```

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