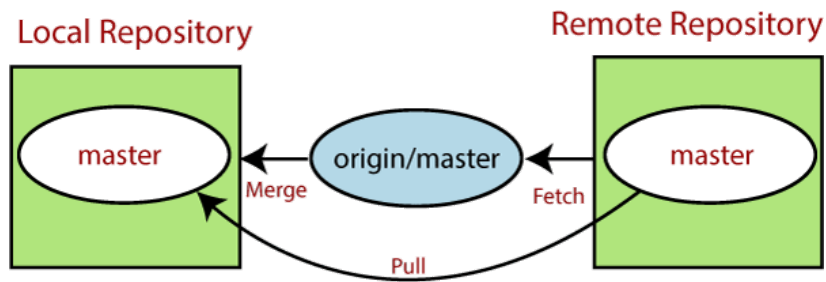


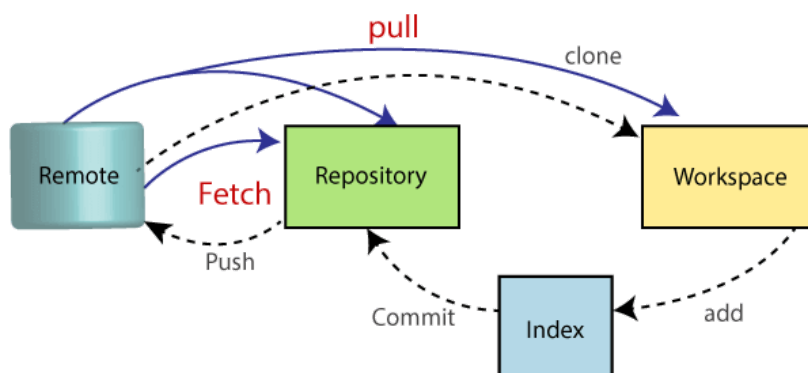
Git Pull / Pull Request

The term pull is used to receive data from GitHub. It fetches and merges changes from the remote server to your working directory. The **git pull** command is used to pull a repository.



Pull request is a process for a developer to notify team members that they have completed a feature. Once their feature branch is ready, the developer files a pull request via their remote server account. Pull request announces all the team members that they need to review the code and merge it into the master branch.

The below figure demonstrates how pull acts between different locations and how it is similar or dissimilar to other related commands.



The "git pull" command

The pull command is used to access the changes (commits) from a remote repository to the local repository. It updates the local branches with the remote-tracking branches. Remote tracking branches are branches that have been set up to push and pull from the remote repository. Generally, it is a collection of the fetch and merges command. First, it fetches the changes from remote and combined them with the local repository.

The syntax of the git pull command is given below:

Syntax:

```
$ git pull <option> [<repository URL> <refspec>...]
```

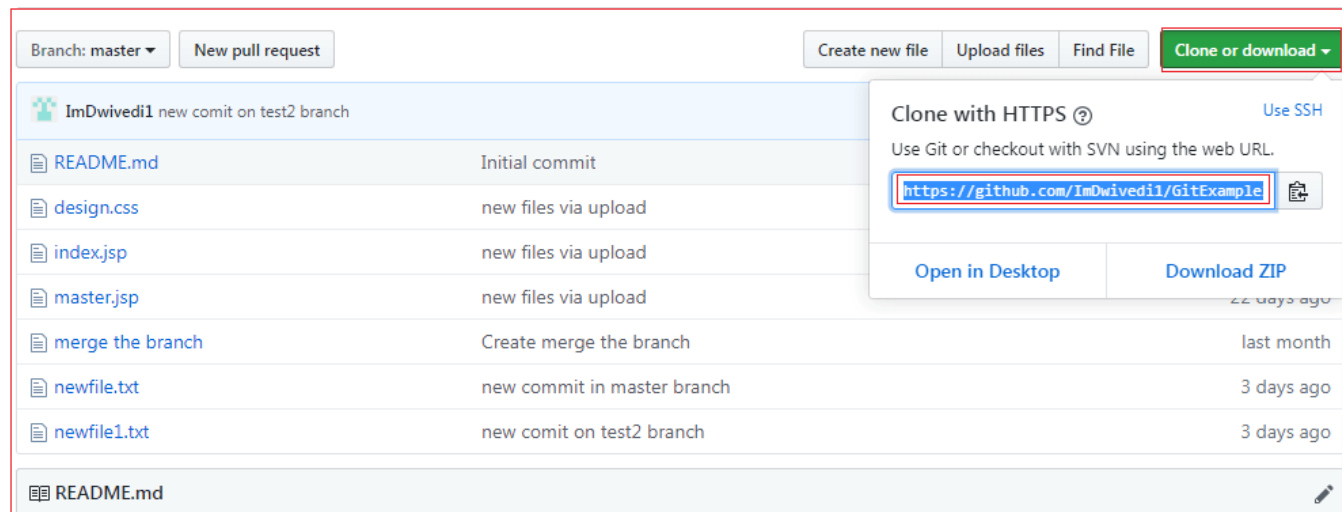
In which:

<option>: Options are the commands; these commands are used as an additional option in a particular command. Options can be **-q** (quiet), **-v** (verbose), **-e**(edit) and more.

<repository URL>: Repository URL is your remote repository's URL where you have stored your original repositories like GitHub or any other git service. This URL looks like:

```
https://github.com/ImDwivedi1/GitExample2.git
```

To access this URL, go to your account on GitHub and select the repository you want to clone. After that, click on the **clone** or **download** option from the repository menu. A new pop up window will open, select **clone with https option** from available options. See the below screenshot:



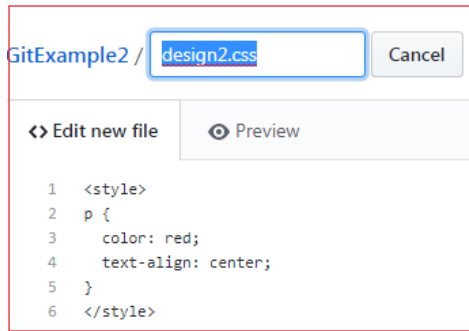
Copy the highlighted URL. This URL is used to Clone the repository.

<Refspec>: A ref is referred to commit, for example, head (branches), tags, and remote branches. You can check head, tags, and remote repository in **.git/ref** directory on your local repository. **Refspec** specifies and updates the refs.

How to use pull:

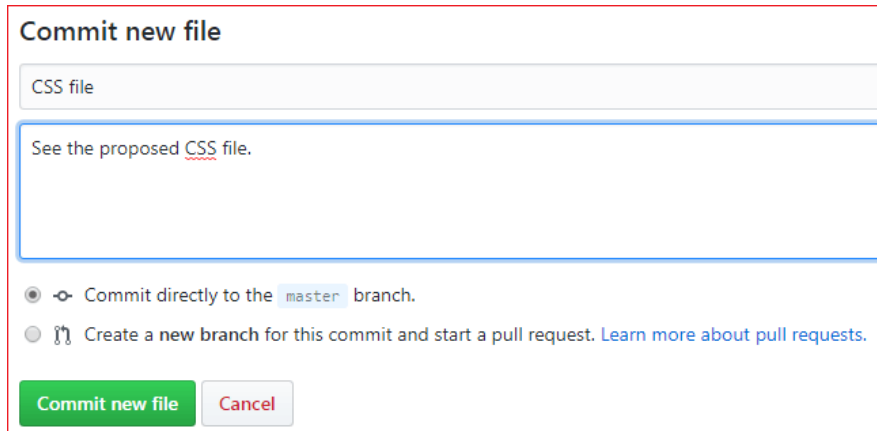
It is essential to understand how it works and how to use it. Let's take an example to understand how it works and how to use it. Suppose I have added a new file say **design2.css** in my remote repository of project GitExample2.

To create the file first, go to create a file option given on repository sub-functions. After that, select the file name and edit the file as you want. Consider the below image.



```
1 <style>
2 p {
3   color: red;
4   text-align: center;
5 }
6 </style>
```

Go to the bottom of the page, select a commit message and description of the file. Select whether you want to create a new branch or commit it directly in the master branch. Consider the below image:



Commit new file

CSS file

See the proposed CSS file.

☒ Commit directly to the master branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit new file Cancel

Now, we have successfully committed the changes.



To pull these changes in your local repository, perform the git pull operation on your cloned repository. There are many specific options available for pull command. Let's have a look at some of its usage.

Default git pull:

We can pull a remote repository by just using the git pull command. It's a default option. Syntax of git pull is given below:

Syntax:

```
$ git pull
```

Output:

```

HiManshu@HiManshu-PC MINGW64 ~/Desktop/GitExample2 (master)
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/ImDwivedi1/GitExample2
   f1ddc7c..0a1a475  master    -> origin/master
Updating f1ddc7c..0a1a475
Fast-forward
 design2.css | 6 ++++++
 1 file changed, 6 insertions(+)
 create mode 100644 design2.css

HiManshu@HiManshu-PC MINGW64 ~/Desktop/GitExample2 (master)
$ |

```

In the given output, the newly updated objects of the repository are fetched through the git pull command. It is the default version of the git pull command. It will update the newly created file **design2.css** file and related object in the local repository. See the below image.

Name	Date modified	Type	Size
.git	10/1/2019 2:47 PM	File folder	
newfolder3	9/21/2019 11:37 AM	File folder	
design	9/19/2019 6:10 PM	Cascading Style S...	1 KB
design2	10/1/2019 2:47 PM	Cascading Style S...	1 KB
index	9/19/2019 6:10 PM	JSP File	2 KB
master	9/19/2019 6:10 PM	JSP File	1 KB
merge the branch	9/20/2019 6:05 PM	File	1 KB
newfile	9/28/2019 12:56 PM	Text Document	1 KB
newfile1	9/28/2019 4:01 PM	Text Document	1 KB
README	9/19/2019 6:10 PM	MD File	1 KB

As you can see in the above output, the design2.css file is added to the local repository. The git pull command is equivalent to **git fetch origin** and **git merge head**. The head is referred to as the ref of the current branch.

Git Pull Remote Branch

Git allows fetching a particular branch. Fetching a remote branch is a similar process, as mentioned above, in **git pull command**. The only difference is we have to copy the URL of the particular branch we want to pull. To do so, we will select a specific branch. See the below image:

Branch: edited ▾
View #2
Create new file
Upload files
Find File
Clone or download ▾

This branch is 1 commit ahead, 8 commits behind master. #2 Compare

ImDwivedi1 Update Index.jsp ... Latest commit 00fccc5 17 days ago

README.md	Initial commit	last month
design.css	new files via upload	22 days ago
index.jsp	Update Index.jsp	17 days ago
master.jsp	new files via upload	22 days ago
merge the branch	Create merge the branch	last month

README.md

In the above screenshot, I have chosen my branch named **edited** to copy the URL of the edited branch. Now, I am going to pull the data from the edited branch. Below command is used to pull a remote branch:

Syntax:

```
$ git pull <remote branch URL>
```

Output:

```

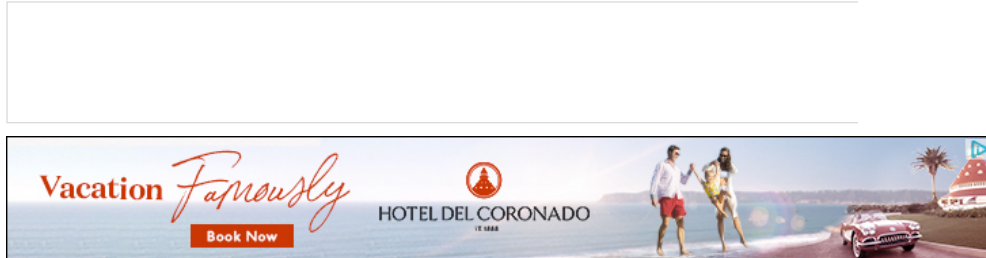
HiManshu@HiManshu-PC MINGW64 ~/Desktop/Demo (master)
$ git pull https://github.com/IMDwivedi1/GitExample2.git
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (38/38), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 38 (delta 13), reused 19 (delta 7), pack-reused 0
Unpacking objects: 100% (38/38), done.
From https://github.com/IMDwivedi1/GitExample2
* branch            HEAD       -> FETCH_HEAD
HiManshu@HiManshu-PC MINGW64 ~/Desktop/Demo (master)
$

```

In the above output, the remote branch **edited** has copied.

Git Force Pull

Git force pull allows for pulling your repository at any cost. Suppose the below scenario:



If you have updated any file locally and other team members updated it on the remote. So, when will you fetch the repository, it may create a conflict.

We can say **force pull** is used for overwriting the files. If we want to discard all the changes in the local repository, then we can overwrite it by influentially pulling it. Consider the below process to force pull a repository:

Step1: Use the git fetch command to download the latest updates from the remote without merging or rebasing.

```
$ git fetch -all
```

Step2: Use the git reset command to reset the master branch with updates that you fetched from remote. The hard option is used to forcefully change all the files in the local repository with a remote repository.

```
$ git reset -hard <remote>/<branch_name>
```

```
$ git reset-hard master
```

Consider the below output:

```

HiManshu@HiManshu-PC MINGW64 ~/Desktop/Demo/GitExample2 (master)
$ git fetch --all
Fetching origin
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/IMDwivedi1/GitExample2
0a1a475..828b962 master    -> origin/master
HiManshu@HiManshu-PC MINGW64 ~/Desktop/Demo/GitExample2 (master)
$ git reset --hard master
HEAD is now at 0a1a475 CSS file

```

In the above output, I have updated my design2.css file and forcefully pull it into the repository.

Git Pull Origin Master

There is another way to pull the repository. We can pull the repository by using the **git pull** command. The syntax is given below:

```
$ git pull <options> <remote>/<branchname>
$ git pull origin master
```

In the above syntax, the term **origin** stands for the repository location where the remote repository situated. **Master** is considered as the main branch of the project.

Consider the below output:

```
HiManShU@HiManShU-PC MINGW64 ~/Desktop/Demo/GitExample2 (master)
$ git pull origin master
From https://github.com/ImDwivedi1/GitExample2
* branch      master      -> FETCH_HEAD
Updating 0a1a475..828b962
Fast-forward
 design2.css | 1 +
 1 file changed, 1 insertion(+)
HiManShU@HiManShU-PC MINGW64 ~/Desktop/Demo/GitExample2 (master)
$
```

It will overwrite the existing data of the local repository with a remote repository.

You can check the remote location of your repository. To check the remote location of the repository, use the below command:

```
$ git remote -v
```

The given command will result in a remote location like this:

```
origin https://github.com/ImDwivedi1/GitExample2 (fetch)
origin https://github.com/ImDwivedi1/GitExample2 (push)
```

The output displays fetch and push both locations. Consider the below image:

```
HiManShU@HiManShU-PC MINGW64 ~/Desktop/Demo/GitExample2 (master)
$ git remote -v
origin https://github.com/ImDwivedi1/GitExample2 (fetch)
origin https://github.com/ImDwivedi1/GitExample2 (push)
```

Git Pull Request

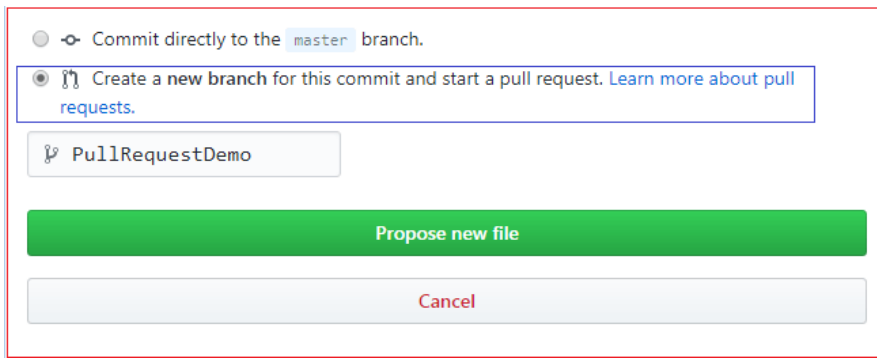
Pull request allows you to announce a change made by you in the branch. Once a pull request is opened, you are allowed to converse and review the changes made by others. It allows reviewing commits before merging into the main branch.

Pull request is created when you committed a change in the GitHub project, and you want it to be reviewed by other members. You can commit the changes into a new branch or an existing branch.

Once you've created a pull request, you can push commits from your branch to add them to your existing pull request.

How to Create a Pull Request

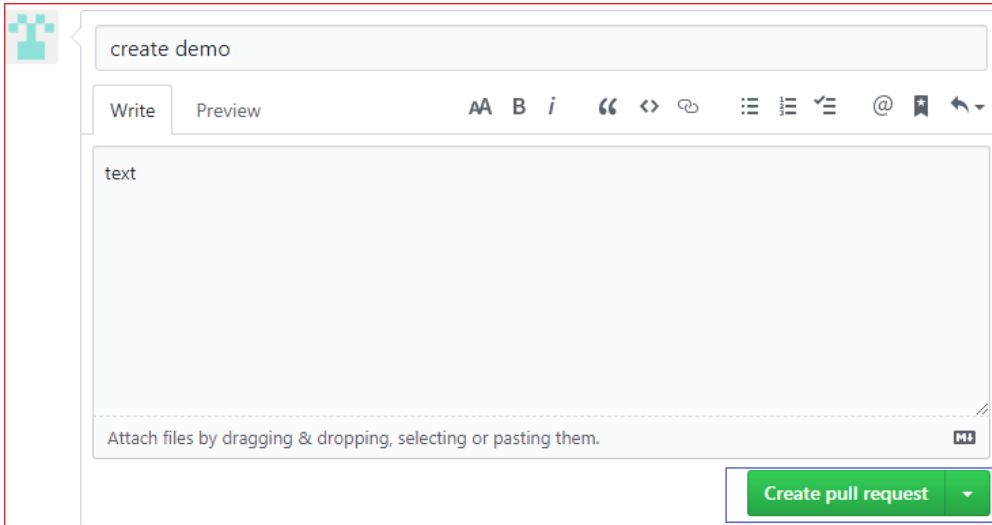
To create a pull request, you need to create a file and commit it as a new branch. As we mentioned earlier in this topic, how to commit a file to use git pull. Select the option "**create a new branch for this commit and start a pull request**" from the bottom of the page. Give the name of the new branch. Select the option to **propose a new file** at the bottom of the page. Consider the below image.



☐ Commit directly to the `master` branch.

☒ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

In the above image, I have selected the required option and named the file as **PullRequestDemo**. Select the option to propose a new file. It will open a new page. Select the option **create pull request**. Consider the below image:



create demo

Write Preview

text

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Now, the pull request is created by you. People can see this request. They can merge this request with the other branches by selecting a merged pull request.

← Prev

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