

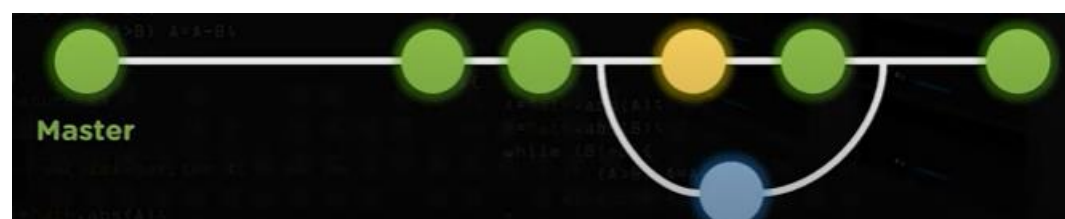
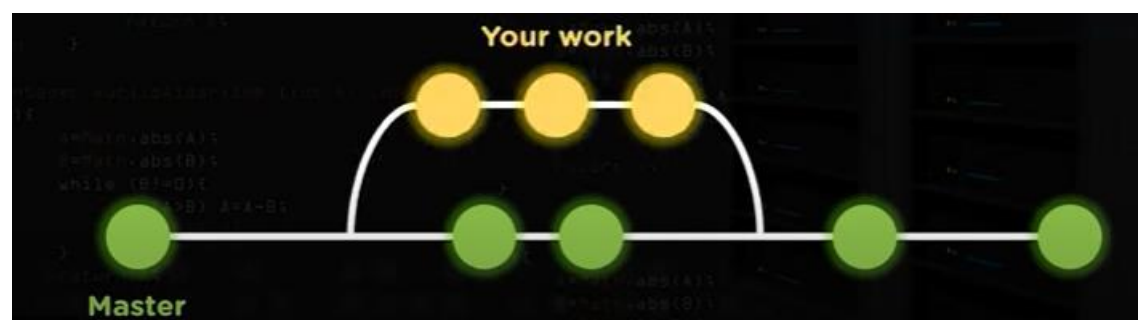
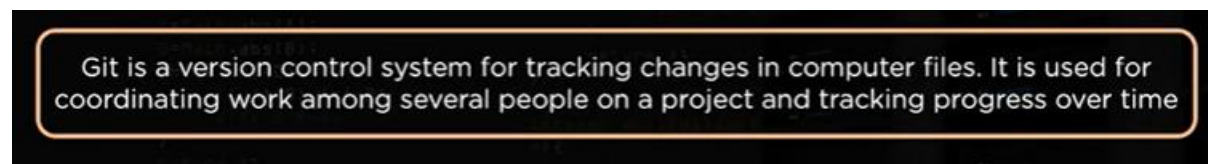
Full Stack Development

Assignment 1:

Git Push Command



What is Git?



What is github?

The image features the GitHub logo on the left, which consists of a black octocat silhouette inside a white circle with a dashed orange border, with the word "GitHub" in bold black text below it. To the right, a dark rounded rectangle with an orange border contains two bullet points. The word "VIDEOS" is written in white at the bottom left of the image.

- GitHub is a Git repository hosting service, which provides web-based graphical interface
- GitHub helps every team member to work together on the project from anywhere, and makes it easy for them to collaborate

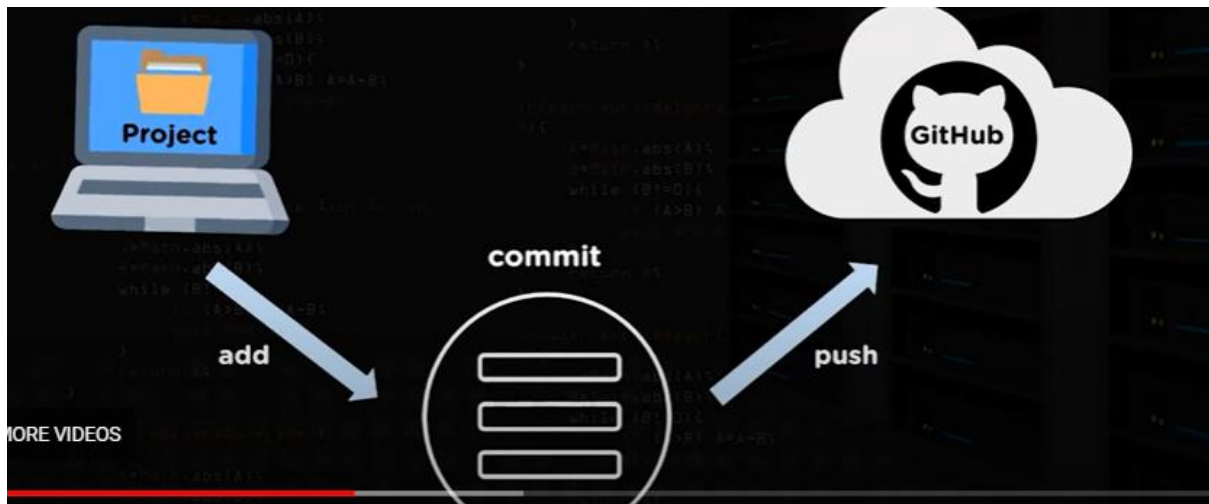
Different Commands in Git:

The image displays a list of Git commands and their functions, organized into two sections. Each item consists of a command name in a white box and its description in a dark box with an orange border. The background is dark with faint, colorful code snippets.

| | |
|-------------------|---|
| Git config | Configure the username and email address |
| Git init | Initialize a local Git repository |
| Git add | Add one or more files to staging area |
| Git diff | View the changes made to the file |
| Git commit | Commit changes to head but not to the remote repository |

| | |
|-------------------|--|
| Git reset | Undo local changes to the state of a Git repo |
| Git status | Displays the state of the working directory and staging area |
| Git merge | Merge a branch into an active branch |
| Git push | Upload content from local repository to a remote repository |
| Git pull | Fetch and download content from a remote repository |

Git Push Command



- Git push is used to push the local repository content to a remote repository
- After a local repository has been modified a push is executed to share the modifications with remote team members

Demo of Push Command

1. Open Git bash.
2. Configure your user name and mail id using the command git config
\$ git config --global user.name "anurpai"
\$ git config --global user.email anusha.pai@gmail.com
\$ git config --list
3. \$ pwd
4. \$ mkdir git_demo
5. \$ cd git_demo
6. \$ pwd
7. \$ mkdir FirstRepo
8. \$ cd FirstRepo
9. \$ pwd
10. \$ git init
11. Create a file in FirstRepo called alpha.txt, go to the file add content [beta, gamma} , save and close it.
12. \$ git status
13. \$ git add .
14. \$ git commit -m "beta, gamma"
15. \$ git log //you can see the commit id of the file committed
16. Create a file in FirstRepo called beta.txt, go to the file add content [alpha, gamma] , save and close it

17. Go to the previous file alpha.txt and make some changes[beta, gamma, delta], save and close it
18. `$ git status`
19. `$ git add .`
20. `$ git commit -m "alpha,gamma"`
21. Go to Github.com, log in to your account create a new repository, Give the name of the repository as FirstRepo, and say create.
22. Copy the url of the repository.
23. `$ git remote add origin paste the url copied.`
24. `$ git remote -v`
25. `$ git push -u origin master`
26. Go to github and check if the files

How to push a folder

27. Create a folder git_demo, add some files in it, may be a pdf file, or a ppt.
Move this folder into FirstRepo
28. Go back to git bash,and add this folder
`$ git add .`
29. `$ git commit -m "add folder"`
30. `$ git push -u origin master`
31. Go to the github account to check if the folder has been uploaded.

Git Pull Request



Lets say we have a project on a remote repository github, and we want to bring that project into our local repository, we first fetch the project into origin master, what origin master does is it fetches changes from the locally stored branch and merges that with the locally checked out branch. In the next step the origin master will merge the project with the branch and will eventually reach our local repository. Both processes together are known as the git pull request.

Lets see the process in detail.

- Git pull is used to fetch and merge changes from the remote repository to the local repository.
- Git pull is a combination of two commands, git fetch followed by git merge



Demonstration: Pull a repository from github to the local repository, make changes to the file and push it back on github

1. Open git bash and create a directory git_demo
\$ mkdir git_demo
2. \$ cd git_demo
3. \$ pwd
4. \$ mkdir changes
5. \$ cd changes
6. \$ pwd
7. \$ git init
8. To pull a file, go to github, go to our directory, clone or download, and copy the URL. Come back to the git Bash.
9. \$ git pull paste the url
10. \$ c:/windows/notepad alpha // go to the file delete alpha from there. Save it and close the file.
11. \$ c:/windows.notepad beta // go to the file delete beta form there. Save it and close the file.
12. \$ git status
13. \$ git add .
14. \$ git commit -m "changes made"
15. \$ git status
16. Go to github to the repository git-demo, copy the url.
17. \$ git remote add origin and paste the url.
18. \$ git remote -v
19. \$ git push -u origin master
20. Go to github and refresh the repository to see the changed files uploaded.

Branching in Git

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$ git branch first_branch2
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$ checkout first_branch2
bash: checkout: command not found
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$ git checkout first_branch2
Switched to branch 'first_branch2'
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (first_branch2)
```

```
$ git add info5.txt
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (first_branch2)
$ git commit -m " changes made to First_branch2"
[first_branch2 1137638] changes made to First_branch2
1 file changed, 1 insertion(+)
create mode 100644 info5.txt
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (first_branch2)
$ ls
info1.txt info2.txt info3.txt info4.txt info5.txt
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (first_branch2)
$ git checkout master
Switched to branch 'master'
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$ ls
info1.txt info2.txt info3.txt info4.txt
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$ git merge first_branch2
Updating 8be67b4..1137638
Fast-forward
 info5.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 info5.txt
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$ ls
info1.txt info2.txt info3.txt info4.txt info5.txt
```

```
Anusha Pai@LAPTOP-F4124SF1 MINGW64 ~/test1 (master)
$
```