



What is our GOAL for this MODULE?

The goal of this module is to learn to use git from the command line.

What did we ACHIEVE in the class TODAY?

- Installed command line git and git bash
- Cloned the activity repository
- Made some changes to the code and committed these changes to a remote repository

Which CONCEPTS/ CODING BLOCKS did we cover today?

- git and git bash
- Committing changes to github from command line.



How did we DO the activities?

1. We used GitHub website to host our code online. GitHub used a tool called Git to keep track of all the changes in the code.

Installing Git

For Mac:

https://sourceforge.net/projects/git-osx-installer/files/

For Windows:

https://gitforwindows.org/

• Open your git bash shell (for Windows) or a normal terminal (for Mac). Enter the password on the bash shell and it shows the output.

```
$ pwd
/home/rajeev
$ |
```

• We used commands like "Is" (to list all the files in the directory), "cd" (change to a different directory), "mkdir", etc.

2. We created a new directory/folder in any location using 'mkdir' commands. 'mkdir' stands for make directory.

```
# mkdir Projects
# cd Projects/
# git clone https://github.com/whitehatjr/angryBirdsStage2
Cloning into 'angryBirdsStage2'...
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (38/36), done.
remote: Compressing objects: 100% (34/34), done.
remote: Total 38 (delta 10), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (38/38), done.
# ls
# ls
# angryBirdsStage2/
# cd angryBirdsStage2/
# cd angryBirdsStage2/
# ls
# BaseClass.js Box.js index.html matter.js p5.min.js Pig.js sketch.js style.css
# BaseClass.js Ground.js Log.js p5.dom.min.js p5.sound.min.js (PIROME.md sprites/
# ls
```

© 2019 The content of this email is confidential and intended for the recipient specified in message only. It is strictly forbidden to share any part of this message with any third party without a written consent of the sender. If you received this message by mistake, please reply to this message and follow with its deletion, so that we can ensure such a mistake does not occur in the future.



- The three greas in Git:
 - A working directory: Files are first modified in the working directory.
 - A staging area: Hosts all the files which are changed before they are committed.
 - A repository (local and remote): Hosts all the different committed versions of the files.

Note: Every modified file travels from the working directory to the staging area to a repository.

- 3. To make a git add and git commit the files with a message use:
 - git add <file_name>
 - git commit -m "<message>" (-m stands for message)

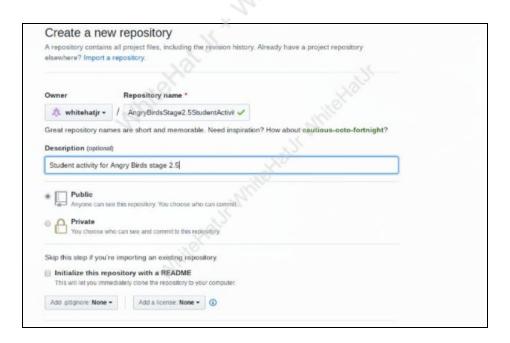
```
git add sketch.js

git commit -m "Add Platform"

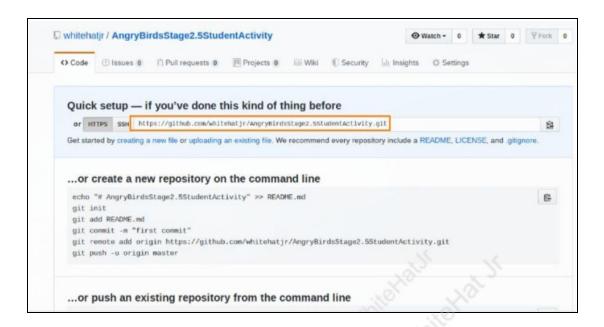
[master 02d325a] Add Platform

1 file changed, 5 insertions(+), 3 delethons(-)
```

4. We created an empty remote Github Repository. DO NOT INCLUDE A README.md file







- 5. To associate the working directory on our git bash shell to this remote repository use: git remote add <remote_name> <remote_github_url>
 - We used any name for the <remote_name> and the url of the github repository you created.

```
$ git remote add test https://github.com/whitehatjr/AngryBirdsStage2.5StudentActivity
```

6. **To push files to a remote repository use:** git push -u <remote_name> (-u stands for username which is promoted by this command)

© 2019 The content of this email is confidential and intended for the recipient specified in message only. It is strictly forbidden to share any part of this message with any third party without a written consent of the sender. If you received this message by mistake, please reply to this message and follow with its deletion, so that we can ensure such a mistake does not occur in the future.



7. You could see all the commits ever made on the repository by typing the command "git log".

```
i git log
commit ace/acche0692ceed25264239ce2c19fa98139067 (HErOD -) masster, angryBirda2.5/masster)
Date: Sun Jul 14 03:47:18 2019 +0530

Changed Readme
commit 02d825a57be6d990130f85693763c50118baale9
Author: rajeev.artha (rajeev.artha8gmail.com)
Date: Sun Jul 14 03:18:29 2019 +0530

Add Platform
commit 7510a4a70f02d826530bf1a3058b33acf1e705e (origin/masster, origin/HERO)
Author: whitehatjr ($2094703.whitehatjr8users.noreply.github.com)
Date: Fri Jul 12 00:19:23 2019 +0530

Update sketch.js
commit 8e6a9e7765d781619dead3a302de8540E5884858
Author: whitehatjr ($2094703.whitehatjr8users.noreply.github.com)
Date: Fri Jul 12 00:10:49 2019 +0530

Delete test
commit befc4Pd674a96f3786287sea16a857752a02350b
Author: whitehatjr ($2084703.whitehatjr8users.noreply.github.com)
Date: Thu Jul 11 23:99:54 2019 +0530

Add files via upload
commit d3e57fc8e423b55a33ses932023ecccldd6c4
Author: whitehatjr ($2084703.whitehatjr8users.noreply.github.com)
Date: Thu Jul 11 23:99:04 2019 +0530

Create test radiation
commit d3e39f8e944eb5e923b20357f0s41446id385243
Author: whitehatjr ($2084703.whitehatjr8users.noreply.github.com)
Date: Thu Jul 11 23:99:14 2019 +0530

Add files via upload
commit d3e39f8e944eb5e923b20357f0s41446id385243
Author: whitehatjr ($2084703.whitehatjr8users.noreply.github.com)
Date: Thu Jul 11 23:99:14 2019 +0530

Add files via upload
commit d3e307f0s9348246580e933704ce862e98a07d5
Author: whitehatjr ($2094703.whitehatjr8users.noreply.github.com)
Date: Thu Jul 11 23:97:11 2019 +0530

Add files via upload
commit d3e307639348276580e933704ce862e98a07d5
Author: whitehatjr ($2094703.whitehatjr8users.noreply.github.com)
Date: Thu Jul 11 23:97:11 2019 +0530
```

What's NEXT?

In the next class, you will be learning about constrained bodies.

EXTEND YOUR KNOWLEDGE:

To understand git and command line watch the following video. https://youtu.be/HVsySz-h9r4