

WHAT IS GIT?

- Git is a 'distributed version control system' - eh?
- That basically means...
 - It's a system that records changes to our files over time
 - We can recall specific versions of those files at any given time
 - Many people can easily collaborate on a project and have their own version of project files on their computer

→GIT

WHY USE GIT?



- Store revisions in a project history in just one directory
- Rewind to any revision in the project I wanted to
- Work on new features without messing up the main codebase
- Easily collaborate with other programmers

→GITHUB

GITHUB

- Online service that hosts our projects
- Share our code with other developers
- Developers can download the projects and work on them
- They can re-upload their edits and merge them with the main codebase



Initialising Git

after installing **git** into your system

<https://git-scm.com/download/win> → standalone Installer

<https://sourceforge.net/projects/atom.mirror/> →downloading atom

mkdir →use to create new directory

The "mkdir" command is used to create a new directory (folder) in the command prompt or terminal. It stands for "make directory."

CD → Change the current working directory

The "cd" command is used to change the current working directory in the command prompt or terminal. It stands for "change directory."

```
C:\Users\gudiw>git --version
```

```
git version 2.41.0.windows.1
```

```
C:\Users\gudiw>git config --global user.name G-raghava
```

```
C:\Users\gudiw>git config --global user.email raghava2k21@gmail.com
```

```
C:\Users\gudiw>git config user.name
```

```
G-raghava
```

```
C:\Users\gudiw>git config user.email
```

```
raghava2k21@gmail.com
```

```
C:\Users\gudiw>cd ..
```

```
C:\Users>cd gudiw
```

```
C:\Users\gudiw>cd documents
```

```
C:\Users\gudiw\Documents>ls
```

```
'ls' is not recognized as an internal or external command,  
operable program or batch file.
```

```
C:\Users\gudiw\Documents>dir
```

```
Volume in drive C is Windows
```

```
Volume Serial Number is 7CA2-5774
```

```
Directory of C:\Users\gudiw\Documents
```

```
10-06-2023 13:20 <DIR> .
20-06-2023 12:02 <DIR> ..
14-07-2022 15:02 <DIR> 450.cpp
14-07-2022 15:02 <DIR> Algo Assignment
14-07-2022 15:03 <DIR> c++
14-07-2022 15:03 <DIR> DS&Algo
14-07-2022 15:03 <DIR> GFG
02-06-2023 13:14 <DIR> IISExpress
14-07-2022 15:03 <DIR> MATLAB
29-04-2023 00:48 <DIR> MobaXterm
02-06-2023 13:14 <DIR> My Web Sites
14-07-2022 15:03 <DIR> Placement Series
11-11-2022 15:25 <DIR> Python Scripts
28-01-2022 12:10 311 Quiz.cpp
28-01-2022 12:10 58,854 Quiz.exe
28-01-2022 12:10 4,648 Quiz.o
08-02-2022 17:46 120 Raghava's Notebook.url
15-04-2023 14:01 69 test.py
10-06-2023 13:21 <DIR> tuts
14-04-2023 12:40 8 ty.py
02-06-2023 14:24 <DIR> Visual Studio 2022
10-06-2023 13:01 <DIR> WindowsPowerShell
6 File(s) 64,010 bytes
16 Dir(s) 162,558,996,480 bytes free
```

C:\Users\gudiw\Documents>**mkdir raghava123**

```
C:\Users\gudiw\Documents>dir
Volume in drive C is Windows
Volume Serial Number is 7CA2-5774
```

Directory of C:\Users\gudiw\Documents

```
20-06-2023 12:09 <DIR> .
```

```
20-06-2023 12:02 <DIR> ..
14-07-2022 15:02 <DIR> 450.cpp
14-07-2022 15:02 <DIR> Algo Assignment
14-07-2022 15:03 <DIR> c++
14-07-2022 15:03 <DIR> DS&Algo
14-07-2022 15:03 <DIR> GFG
02-06-2023 13:14 <DIR> IISExpress
14-07-2022 15:03 <DIR> MATLAB
29-04-2023 00:48 <DIR> MobaXterm
02-06-2023 13:14 <DIR> My Web Sites
14-07-2022 15:03 <DIR> Placement Series
11-11-2022 15:25 <DIR> Python Scripts
28-01-2022 12:10 311 Quiz.cpp
28-01-2022 12:10 58,854 Quiz.exe
28-01-2022 12:10 4,648 Quiz.o
08-02-2022 17:46 120 Raghava's Notebook.url
20-06-2023 12:09 <DIR> raghava123
15-04-2023 14:01 69 test.py
10-06-2023 13:21 <DIR> tuts
14-04-2023 12:40 8 ty.py
02-06-2023 14:24 <DIR> Visual Studio 2022
10-06-2023 13:01 <DIR> WindowsPowerShell
6 File(s) 64,010 bytes
17 Dir(s) 162,560,278,528 bytes free
```

```
C:\Users\gudiw\Documents>cd raghava123
```

```
C:\Users\gudiw\Documents\raghava123>touch index.html
'touch' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\gudiw\Documents\raghava123>echo. > index.html
```

```
C:\Users\gudiw\Documents\raghava123>dir
```

Volume in drive C is Windows

Volume Serial Number is 7CA2-5774

```
Directory of C:\Users\gudiw\Documents\raghava123
```

20-06-2023 12:12 <DIR>	.
20-06-2023 12:09 <DIR>	..
20-06-2023 12:12	3 index.html
1 File(s)	3 bytes
2 Dir(s)	162,558,783,488 bytes free

```
C:\Users\gudiw\Documents\raghava123>Atom index.html
```

'Atom' is not recognized as an internal or external command,
operable program or batch file.

```
C:\Users\gudiw\Documents\raghava123>code . (open in VSCode)
```

```
C:\Users\gudiw\Documents\raghava123>rm index.html
```

'rm' is not recognized as an internal or external command,
operable program or batch file.

```
C:\Users\gudiw\Documents\raghava123>del index.html
```

```
C:\Users\gudiw\Documents\raghava123>dir
```

Volume in drive C is Windows

Volume Serial Number is 7CA2-5774

```
Directory of C:\Users\gudiw\Documents\raghava123
```

20-06-2023 12:31 <DIR>	.
20-06-2023 12:09 <DIR>	..
0 File(s)	0 bytes

```
2 Dir(s) 161,536,512,000 bytes free
```

```
C:\Users\gudiw\Documents\raghava123>cd ..
```

```
C:\Users\gudiw\Documents>rmdir raghava123
```

```
C:\Users\gudiw\Documents>dir
```

```
Volume in drive C is Windows
```

```
Volume Serial Number is 7CA2-5774
```

```
Directory of C:\Users\gudiw\Documents
```

20-06-2023	12:32	<DIR>	.
20-06-2023	12:26	<DIR>	..
14-07-2022	15:02	<DIR>	450.cpp
14-07-2022	15:02	<DIR>	Algo Assignment
14-07-2022	15:03	<DIR>	c++
14-07-2022	15:03	<DIR>	DS&Algo
14-07-2022	15:03	<DIR>	GFG
02-06-2023	13:14	<DIR>	IISExpress
14-07-2022	15:03	<DIR>	MATLAB
29-04-2023	00:48	<DIR>	MobaXterm
02-06-2023	13:14	<DIR>	My Web Sites
14-07-2022	15:03	<DIR>	Placement Series
11-11-2022	15:25	<DIR>	Python Scripts
28-01-2022	12:10		311 Quiz.cpp
28-01-2022	12:10		58,854 Quiz.exe
28-01-2022	12:10		4,648 Quiz.o
08-02-2022	17:46		120 Raghava's Notebook.url
15-04-2023	14:01		69 test.py
10-06-2023	13:21	<DIR>	tuts
14-04-2023	12:40		8 ty.py
02-06-2023	14:24	<DIR>	Visual Studio 2022
10-06-2023	13:01	<DIR>	WindowsPowerShell

```
6 File(s)      64,010 bytes  
16 Dir(s)  161,516,154,880 bytes free
```

C:\Users\gudiw\Documents>

⇒ The "rm" command is typically used to remove (delete) files and directories in Unix-based systems like Linux and macOS. In Windows command prompt, the equivalent command to remove files is "del" or "erase," and to remove directories (folders) is "rmdir" or "rd."

→ If you want to create an empty file with a specific name, you can use the "echo" command in Windows

echo. > index.html

This command creates a new file named "index.html" with no content. The "echo." command is used to write a blank line to the file.

REPOSITORIES (REPO'S)



A repo is a container for a project you want to track with Git (e.g. a website project)



Can have many different repo's for many different projects on your computer



Like a project folder which Git tracks the contents of for us

REPOSITORIES



My Project

```
| -- .git  
| -- index.html  
| -- style.css  
| -- img  
    | -- logo.png  
    | -- crazy_cat.jpg
```

→ Circles are commit points

COMMITS

— Commit History —

Start



Finnished Header

Finnished Footer

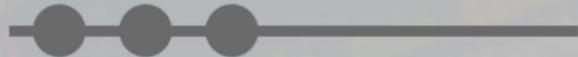
Added JS slider

Added new feature

Styled new feature

COMMITs

My Project	Modified	Staging	Committed
-- .git	Changed files		
-- index.html	Not committed	Add any changed files to staging that you want to commit	
-- style.css			
-- img			
-- logo.png			
-- crazy_cat.jpg			

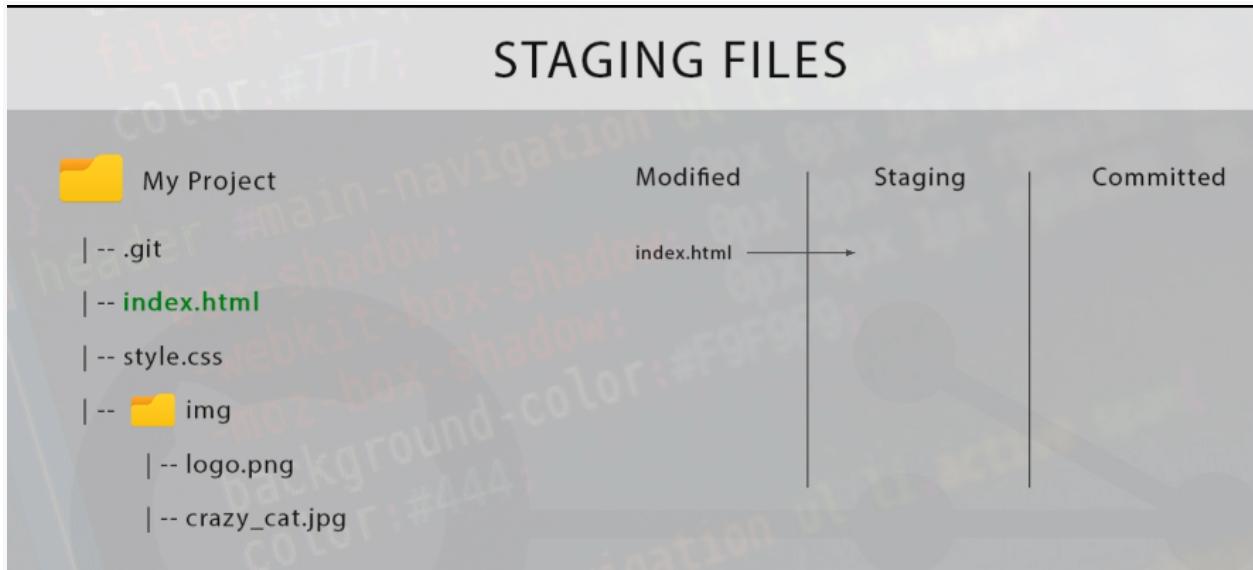


Creating a Repository

go to the folder where our code is available

1. `git init` (this will create .git file)

Staging Files



cmd

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git status
On branch master
```

Initial commit

Untracked files:

```
(use "git add <file>..." to include in what will be committed)
```

index.html ↗

```
nothing added to commit but untracked files present (use "git add" to track)
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git add index.html
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
```

λ

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git status
On branch master

Initial commit

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

    new file:   index.html
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git rm --cached index.html
rm 'index.html'
```

```
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (master)  
λ git status  
On branch master  
  
Initial commit  
  
Untracked files:  
  (use "git add <file>..." to include in w  
hat will be committed)  
  
      index.html  
  
nothing added to commit but untracked file  
s present (use "git add" to track)
```

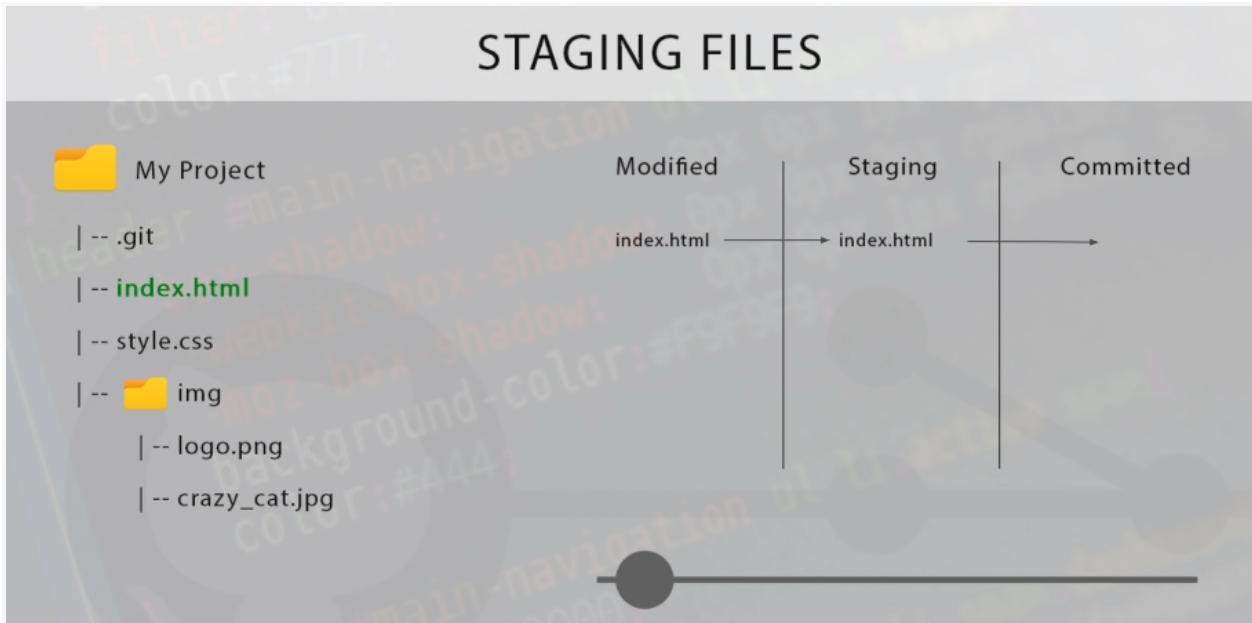
```
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (master)  
λ git add .
```

```
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (master)  
λ git status  
On branch master
```

```
Initial commit
```

```
Changes to be committed:  
(use "git rm --cached <file>..." to unst  
age)  
  
      new file:   index.html  
      new file:   styles.css
```

Making Commit



```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git status
On branch master
```

Initial commit

```
Changes to be committed:
(use "git rm --cached <file>..." to unstage)

  new file:   index.html
  new file:   styles.css
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git commit -m "added index and styles files"
[master (root-commit) 4a8a0c0] added index and styles files
 2 files changed, 13 insertions(+)
 create mode 100644 index.html
 create mode 100644 styles.css
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git log
commit b946a4e34b2748cf8bd12ed875b6c8cc69fb6c95
Author: iamshaunjp <shaunjp@shaun-pelling.com>
Date:   Mon May 22 15:39:25 2017 +0100

    changed body font size

commit af6b84c6a1bd4eb56648e9519ded9cc129e4c156
Author: iamshaunjp <shaunjp@shaun-pelling.com>
Date:   Mon May 22 15:38:17 2017 +0100

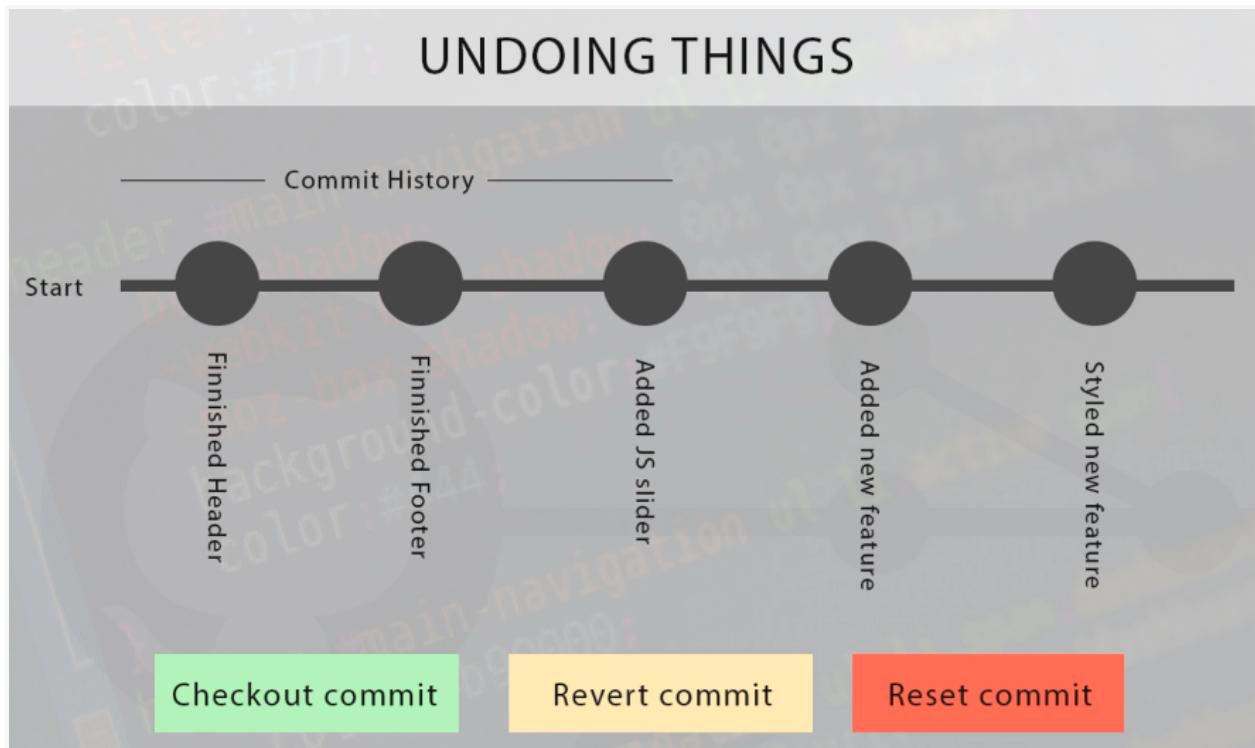
    added index title

commit 4a8a0c06a33d27fa94d0a2e2f4b36d7bd8ce0251
Author: iamshaunjp <shaunjp@shaun-pelling.com>
Date:   Mon May 22 15:36:25 2017 +0100

    added index and styles files
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git log --oneline
b946a4e changed body font size
af6b84c added index title
4a8a0c0 added index and styles files
```

UnDoing Things



→These are the multiple commits done

```
C:\Users\Shaun\Documents\My Web Sites\Reco
rding\git-one (master)
λ git log --oneline
b7b2d3d added heading to index file
2d634d7 added new feature
b946a4e changed body font size
af6b84c added index title
4a8a0c0 added index and styles files
```

→Checkout “af6b84c”

```
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (master)  
λ git checkout af6b84c  
Note: checking out 'af6b84c'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>  
  
HEAD is now at af6b84c... added index titl  
e  
  
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (HEAD detached at af6b84c)  
λ git checkout master|
```

```
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (HEAD detached at af6b84c)  
λ git checkout master  
Previous HEAD position was af6b84c... adde  
d index title  
Switched to branch 'master'
```

→Revert “2d634d7”

```
C:\Users\Shaun\Documents\My Web Sites\Reco
rding\git-one (master)
λ git log --oneline
b7b2d3d added heading to index file
2d634d7λ added new feature
b946a4e changed body font size
af6b84c added index title
4a8a0c0 added index and styles files
```

```
C:\Users\Shaun\Documents\My Web Sites\Reco
rding\git-one (master)
λ git revert 2d634d7
[master f286814] Revert "added new feature
"
 1 file changed, 1 deletion(-)
 delete mode 100644 feature.js
```

```
C:\Users\Shaun\Documents\My Web Sites\Reco  
rding\git-one (master)  
λ git log --oneline  
f286814 Revert "added new feature"  
b7b2d3d added heading to index file  
2d634d7 added new feature  
b946a4e changed body font size  
af6b84c added index title  
4a8a0c0 added index and styles files
```

→Reset “af6b84c”

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git reset af6b84c
Unstaged changes after reset:
M       index.html
M       styles.css

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git log --oneline
af6b84c added index title
4a8a0c0 added index and styles files

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git reset af6b84c --hard
HEAD is now at af6b84c added index title

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git reset 4a8a0c0 --hard
HEAD is now at 4a8a0c0 added index and styles files
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git log --oneline
4a8a0c0 added index and styles files
```

Branches

→creating the new branch

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git branch feature-1

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git branch -a
  feature-1
* master

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git checkout feature-1
Switched to branch 'feature-1'

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-1)
λ git branch -a
* feature-1
  master

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-1)
λ
```

→Deleting the branch

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git branch -d feature-1
error: The branch 'feature-1' is not fully merged.
If you are sure you want to delete it, run 'git branch -D feature-1'.

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git branch -D feature-1
Deleted branch feature-1 (was dbc8c5a).

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git branch -a
* master
```

→ In one step we can create branch & switch to branch

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git checkout -b feature-a
Switched to a new branch 'feature-a'
```

→ File created in branch “feature a”

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git checkout -b feature-a
Switched to a new branch 'feature-a'

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-a)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-a)
λ git commit -m "added feature a file"
[feature-a e301c48] added feature a file
 1 file changed, 1 insertion(+)
 create mode 100644 feature-a.js
```

→ File created in branch “feature b”

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git checkout -b feature-b
Switched to a new branch 'feature-b'

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-b)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-b)
λ git commit -m "added feature b file"
[feature-b 15fa9f8] added feature b file
 1 file changed, 1 insertion(+)
 create mode 100644 feature-b.js
```

→Currently available branches in Repo

```
C:\Users\Shaun\Documents\My Web Sites\Recordi
ng\git-one (master)
λ git branch -a
  feature-a
  feature-b
* master
```

Merging Branches & Conflicts

→ Feature a & Feature b branches merged to master

```
cmd
C:\Users\Shaun\Documents\My Web Sites\Re
cording\git-one (master)
λ git merge feature-a
Updating 8caa62a..e301c48
Fast-forward
  feature-a.js | 1 +
  1 file changed, 1 insertion(+)
  create mode 100644 feature-a.js

C:\Users\Shaun\Documents\My Web Sites\Re
cording\git-one (master)
λ git merge feature-b
Merge made by the 'recursive' strategy.
  feature-b.js | 1 +
  1 file changed, 1 insertion(+)
  create mode 100644 feature-b.js
```

→new branch feature-c created & style.css modified in master as well as feature-c

```
cmd
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git checkout -b feature-c
Switched to a new branch 'feature-c'

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (feature-c)
λ git checkout master
Switched to branch 'master'

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git commit -m "added margin to body selector"
[master 89e1a69] added margin to body selector
 1 file changed, 1 insertion(+)
```

```
C:\Users\Shaun\Documents\My Web Sites\Re
cording\git-one (master)
λ git checkout feature-c
Switched to branch 'feature-c'
```

```
C:\Users\Shaun\Documents\My Web Sites\Re
cording\git-one (feature-c)
λ git add .
```

```
C:\Users\Shaun\Documents\My Web Sites\Re
cording\git-one (feature-c)
λ git commit -m "added padding"
[feature-c 19bc3bc] added padding
 1 file changed, 1 insertion(+)
```

```
C:\Users\Shaun\Documents\My Web Sites\Re
cording\git-one (feature-c)
λ git checkout master
Switched to branch 'master'
```

→Conflict while merging branches

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git merge feature-c
Auto-merging styles.css
CONFLICT (content): Merge conflict in styles.css
Automatic merge failed; fix conflicts and then commit the result.
```

```
index.html          # styles.css
body{
    background: red;
<<<<< HEAD
    margin: 20px;                         master
=====
    padding: 30px;
>>>>> feature-c
}
```

→Entire style.css is modified in master

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git commit
[master f028219] Merge branch 'feature-c'
```

cmd - git commit

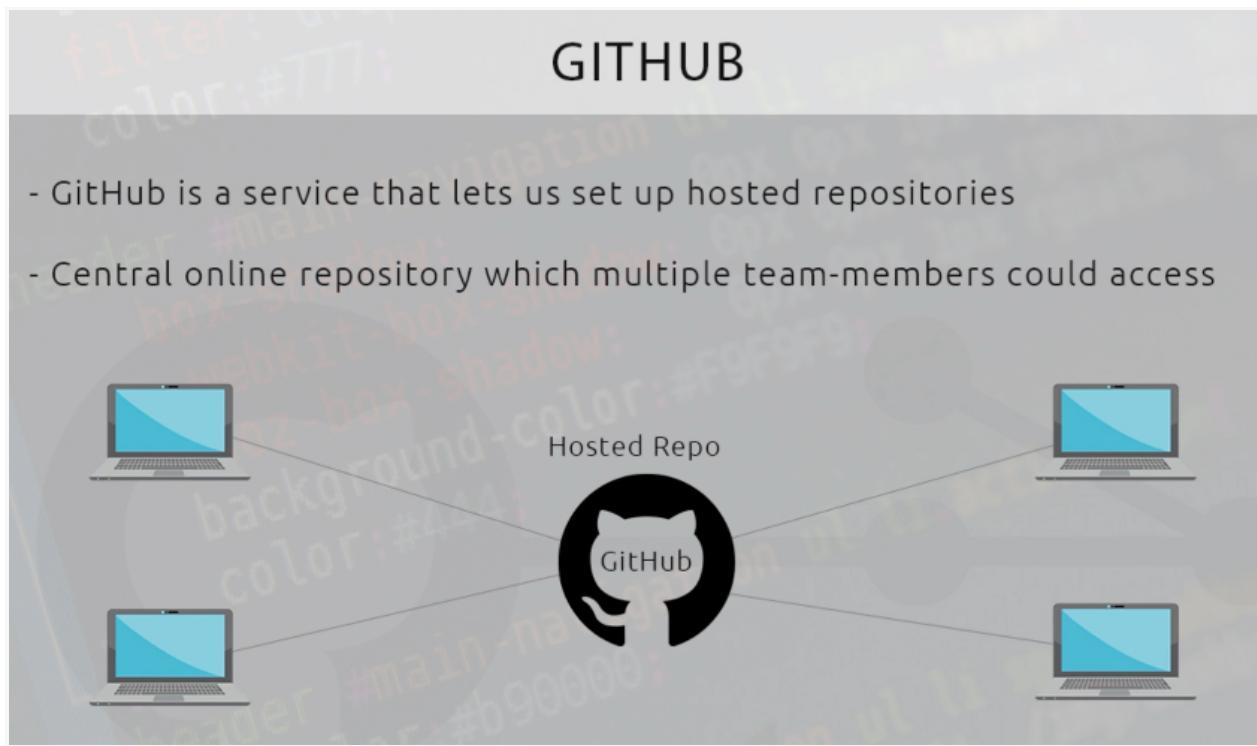
```
Merge branch 'feature-c'

# Conflicts:
#       styles.css
#
# It looks like you may be committing a
# merge.
# If this is not correct, please remove
# the file
#       .git/MERGE_HEAD
# and try again.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty
# message aborts the commit.
# On branch master
# All conflicts fixed but you are still
# merging.
#
# Changes to be committed:
#       modified:   styles.css
<DITMSG [unix] (10:33 24/05/2017)1,1 Top
:wq|
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git log --oneline
f028219 Merge branch 'feature-c'
19bc3bc added padding
89e1a69 added margin to body selector
83dbceb Merge branch 'feature-b'
15fa9f8 added feature b file
e301c48 added feature a file
8caa62a added index title
4a8a0c0 added index and styles files
```

Introduction to GitHub



→Code pushed to github (First way →whatever commit changes in the code that is visible to another developers)

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git status
On branch master
nothing to commit, working tree clean

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git push https://github.com/iamshaunjp/git-one.git master
Counting objects: 24, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (19/19), done.
Writing objects: 100% (24/24), 2.00 KiB | 0 bytes/s, done.
Total 24 (delta 9), reused 0 (delta 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/iamshaunjp/git-one.git
 * [new branch]      master -> master
```

→modified index.html

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git commit -m "added h1"
[master 2c93732] added h1
 1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git remote add origin https://github.com/iamshaunjp/git-one.git
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ git push origin master
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 317 bytes | 0 bytes/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/iamshaunjp/git-one.git
  f028219..2c93732  master -> master
```

→2nd way (github to local computer clone)

```
C:\Users\Shaun\Documents\My Web Sites\Recording\git-one (master)
λ cd ..

C:\Users\Shaun\Documents\My Web Sites\Recording
λ git clone https://github.com/iamshaunjp/crap-portfolio.git
Cloning into 'crap-portfolio'...
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0)
, pack-reused 0
Unpacking objects: 100% (3/3), done.

C:\Users\Shaun\Documents\My Web Sites\Recording
λ cd crap-portfolio

C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (master)
λ █
```

```
C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (master)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (master)
λ git commit -m "added index file"
[master 677d28a] added index file
 1 file changed, 10 insertions(+)
 create mode 100644 index.html

C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (master)
λ git remote -v
origin  https://github.com/iamshaunjp/crap-portfolio.git (fetch)
origin  https://github.com/iamshaunjp/crap-portfolio.git (push)

C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (master)
λ git push origin master
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 376 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/iamshaunjp/crap-portfolio.git
  9184b30..677d28a  master -> master
```

Collaborating on GitHub

→ Bring code from the github to local machine

```
C:\Users\Shaun\Documents\My Web Sites\Recording\
crap-portfolio (master)
λ git pull origin master
From https://github.com/iamshaunjp/crap-portfolio
 *
 * branch            master      -> FETCH_HEAD
Already up-to-date.
```

→Checkout to the branch “index-html” and update the index file.

```
C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (master)
λ git checkout -b index-html
Switched to a new branch 'index-html'

C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (index-html)
λ git add .

C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (index-html)
λ git commit -m "added index html"
[index-html 6f3b107] added index html
 1 file changed, 108 insertions(+), 2 deletions(-)
Edit Upload files Find file Clone or download
```



```
C:\Users\Shaun\Documents\My Web Sites\Recording\crap-portfolio (index-html)
λ git push origin index-html
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.43 KiB | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/iamshaunjp/crap-portfolio.git
 * [new branch]    index-html -> index-html
```

Forking & Contributing

Fork

From one github account to another github account.

Push the code to github

go to the folder where our code is available

1. git init (this will create .git file)

2(option). check status -->git status (all files names display in red color)

3. git add . (add all files)

4(option). check status --> git status (all files in green color)

5. git commit -m "first commit"

6. git remote add origin <https://github.com/G-raghava/Node.js.git>

7. git push -u origin master