https://git-scm.com/book/en/v2

https://git-scm.com/docs/gittutorial

https://try.github.io/

https://product.hubspot.com/blog/git-and-github-tutorial-for-beginners

https://www.freecodecamp.org/news/best-git-tutorial/

https://github.com/features

https://www.youtube.com/watch?v=y8P0qO7wxG0

https://techcrunch.com/2012/07/14/what-exactly-is-github-anyway/

To check git is installed: **git --version**

To initialise a git repository: **git init**
$git init

To add new files:

- $touch filename in bash
- $code or $notepad filename

Git will not keep track of any changes to files in a git repository unless you explicitly tell it to do so:

To check which files are being tracked: **git status**
$git status

A commit:

- A record of changes you have made since you last made a commit
- You can make multiple commits before you push!

To add a file to a commit (commit a file), you have to add it to the staging environment (or “index”) first

To add a file to the staging environment, use: **git add <filename>**

Once you've added all the files you want to the staging environment, package them into a commit with: **git commit -m "your message about the commit"**

Git branches:

- Allow you to move back and forth between the states of the project
- You can then merge your changes from the branch into the master branch

To create a new branch while on the master branch: **git checkout -b <my branch name>**

To check how many branches there are: **git branch**

- The branch name with the asterix is the branch you're pointed to at that given time

To add a repository that you've made locally to github:

- First "create a new repo" on github (GitHub will ask if you want to create a new repo from scratch or if you want to add a repo you have created locally.)

Follow the "push an existing repository from the command line"
(i.e. just adding a remote to your project's root folder)

```
mnelson:myproject mnelson$ git remote add origin
https://github.com/cubeton/mynewrepository.git
mnelson:myproject mnelson$ git push -u origin master
Counting objects: 3, done.
Writing objects: 100% (3/3), 263 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/cubeton/mynewrepository.git
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin.
```

To push a commit onto a new branch (remember you have to add the files to the staging environment, commit them, then push those commits): **git push origin yourbranchname /** to your master branch: **git push -u origin master**

## Push an existing repo to github

1. create a github repo
2. open project folder
3. git init
4. git add --all
5. git commit -m “message”
6. git remote add origin *remote repository URL*
7. git push origin master

## To reset commits after a commit/commits

**git reset**