Lab 1.2 GitHub

## Clone https (you can use this to get sample code)

1. Get the url you want:

either my URL

https://github.com/andrewbeattycourseware/pands2021.git

Or from github

* 1. Go to GitHub
  2. Select the repository you want to clone (create one if required)
  3. In code select the https
  4. Copy the url to the clipboard by clicking the clipboard symbol on right

git clone PASTED.URL

1. Go to CMDER
2. Navigate to where you want to make the repository
3. Clone the repository (you can paste the name in right clicking)

git clone PASTED.URL

1. Set the pull mode to merge

git config pull.rebase false

1. Pull the content of the remote repository

git pull

1. Copy any files you wish into the folder (or create files/folders)

cd nameOfDirectory

echo "test content" > test.txt

1. Add the files to the repository

git add .

1. Commit any changes

git commit -m "test"

1. Push the files to GitHub (you will need your username and password

git push

## Danger to remove a repository just delete the .git folder

1. Check If the .git directory exists

ls -a

1. You can delete the repository (and not the files in it) Danger

rm -rf .git

1. Or you can delete the folder containing the repositoryDanger

## Clone using ssh (handy for your repository)

cd ..

rm -rf nameOfFolder

1. More information on this

[About SSH - GitHub Docs](https://docs.github.com/en/github-ae@latest/github/authenticating-to-github/about-ssh)

~ is resolved to be your home directory

ls ~/.ssh

1. Check if there are any keys already on your machine
2. If none create one key pair

**ssh-keygen** creates a key pair

**ed25519** used for encryption

**-C email**, this is probably not required

ssh-keygen -t ed25519 -C "your.email@gmit.ie"

1. Copy the public key to clipboard

**clip** is the clipboard

**<** redirect input

clip < ~\.ssh\id\_ed25519.pub

1. Go to GitHub
2. Click the icon in the top right and select settings
3. Select SSH and GPG keys
4. Click new SSH key and paste in the public key
5. Go to the repository that you want
6. Select code
7. Select SSH and copy the URL by clicking the clipboard

git@github.com:yourAccount/theRepository.git

1. Clone the repository by repeating steps 7 to 9 above

git clone PASTED.URL

git config pull.rebase false

git pull

1. Test that you can push on this as well

git push

git commit -m "test"

git add .

cd nameOfDirectory

echo "test content" > test.txt

## Creating a repository on local and linking with GitHub

1. Create a repository on GitHub
2. Go into the repository, click code and copy the URL (for either HTTPS or SSH if you have set up your keys already)
3. Navigate to the folder that you wish to make a repository out of.
4. Create the repository

git init

1. Set pulling mode

git config pull.rebase false

1. If you try to pull now you will get an error like

git pull

There is no tracking information for the current branch.

Please specify which branch you want to merge with.

See git-pull(1) for details.

git pull <remote> <branch>

1. To solve this: fetch the code

git fetch

1. And checkout the code on the remote branch (in my case *main*)

git checkout main

1. Push your code to the remote repository

git push