# Lab 1.3 GitHub

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

1. Get the url you want: either my URL

https://github.com/andrewbeattycourseware/pforcs2021.git

Or from github

- a. Go to GitHub
- b. Select the repository you want to clone (create one if required)
- c. In code select the https
- d. Copy the url to the clipboard by clicking the clipboard symbol on right
- 2. Go to CMDER (or terminal in VSCode)
- 3. Navigate to where you want to make the repository
- 4. Clone the repository (you can paste the name in right clicking)

# git clone PASTED.URL

5. Set the pull mode to merge

# git config pull.rebase false

6. Pull the content of the remote repository

#### git pull

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

```
cd nameOfDirectory
echo "test content" > test.txt
```

8. Add the files to the repository

```
git add .
```

9. Commit any changes

```
git commit -m "test"
```

10. Try and push the files to GitHub (you will need a username and password), you will not be able to push to the repository above. (if this was your repository then you could enter your credentials).

```
git push
```

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

11. Check If the .git directory exists

ls -a

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

rm -rf .git

13. Or you can delete the folder containing the repository Danger

cd .. rm -rf nameOfFolder

# Clone using SSH (handy for your repository)

1. More information on this

#### About SSH - GitHub Docs

2. Check if there are any keys already on your machine

~ is resolve d to be your home directo

 $1s \sim /.ssh$ 

3. If none create one key pair

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

ssh-keygen creates a key paired25519 used for encryptionC email, this is probably not required

4. Copy the public key to clipboard

clip < ~\.ssh\id\_ed25519.pub</pre>

clip is the clipboard
< redirect input</pre>

- 5. Go to GitHub
- 6. Click the icon in the top right and select settings
- 7. Select SSH and GPG keys
- 8. Click new SSH key and paste in the public key

#### You are now ready to clone

- 9. Go to the repository that you want
- 10. Select code
- 11. Select SSH and copy the URL by clicking the clipboard

git@github.com:yourAccount/theRepository.git

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

```
git clone PASTED.URL
git config pull.rebase false
git pull
```

13. Test that you can push on this as well

```
cd nameOfDirectory
echo "test content" > test.txt

git add .

git commit -m "test"

git push
```

# Extra 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

5. Set pulling mode

# git config pull.rebase false

6. 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>

7. To solve this: fetch the code

## git fetch

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

## git checkout main

9. Push your code to the remote repository

git push