

# GIT!

**Sarah Bradburn**

# LET'S GET SETUP

- Create a BitBucket or Github account
- Download git :

<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

Windows: use via git bash

Linux and mac: use via the command line

# CREATE AND CLONE A REPO

- Go to the website and click 'create repo'
- Click actions > clone and copy the url
- Go to the command line and navigate to the folder you want the repo in.
  - This should look like `cd <path to folder>`
- Clone the repo!
  - `Git clone <your repo name>`

# WRITE A PROGRAM

- Navigate to the repo you just cloned
- In the repo you just cloned, create a .txt file with a nice greeting to your future self!

# ADD YOUR CHANGES TO SOURCE CONTROL

- From within your repo, execute the following commands:

```
git add .
```

```
git commit -m "Write a message"
```

```
git push
```

# PULL YOUR CHANGES

1. Go to a new folder
2. Clone the repo
3. Add another note and commit it!
4. Go to folder 1
5. `git pull`

# REVIEW OF THE ESSENTIAL GIT COMMANDS

`Git clone <repository name copied from bitbucket>`

`Git add .`

`Git commit -m “”`

`Git push`

`Git pull`

# WHAT CAN GIT BE USED FOR?

- Manage your own projects
  - So far, we have learned everything you need to manage your own projects!
- Manage group projects
  - Let's try branching!



# BRANCHING

- Create a branch in Bitbucket: Click branches > create branch
  - Give your branch a name
- Checkout your branch in the command line using the following command: `git fetch && git checkout test`
- When you make changes, you can push them to your branch with `git push`
- To add your branch to main, go to the branch in BitBucket and click 'merge'