Git 101

Initialising

- 1. First create a repository on github.com
- 2. From the folder you wish to add to your repository, run git init
- 3. Add all files using git add .
- 4. Check the status with git status, this will show the files in the repository in green
- 5. Commit with git commit -am "initial version"
- 6. Link to your repository with git remote add origin https://github.com/USERNAME/PROJECT.git
- 7. Push to the online repository with git push -u origin master
- 8. To clone the repo use: git clone https://https://github.com/USERNAME/PROJECT.git

Workflow

```
git pull Pull changes
... Do some work
... Get project into working state
git status see what's changed
$ git add X track new files
... edit .gitignore to ignore files
$ git commit -am "..." (take a snapshot)
git push Push changes
```

Branching

Branches allow changes to be made to the existing codebase whilst keeping the default (master) branch unchanged. This is ideal for feature additions and code rewrites.

```
git checkout -b newbranchname
git commit -am "..."
git push --set-upstream origin newbranchname
```

Zipping

To zip the current snapshot use: git archive master -o project.zip

Committing

After a commit, status should return nothing.

The -a option says to commit all the changes and additions you have made. The -m option says to include a one-line message describing the changes made since the last commit.