

Source Code Management

Github

What is it?

Github is a code hosting platform for version control and collaboration.

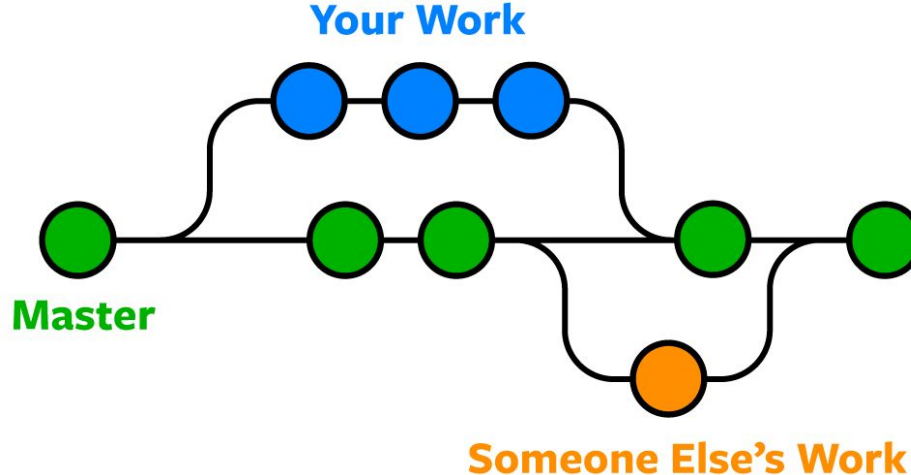
Why do we need it?

- It allows teams of engineers to work on the same code at the same time
- Allows for versioning
- Gives a history of a project

Let's set up an account together!

Workflow

- Main (sometimes called master) branch which is normally your production code
- Create a branch which is a copy of main where you made changes
- You make changes on your branch
- You add and commit and these changes
- This is then merged back into the main branch



Git Cheat Sheet

Create a local copy of a repo

```
$ git clone <repo url>
```

Create and checkout a branch

```
$ git checkout -b <branch name>
```

Switch to a branch that already exists

```
$ git checkout <branch name>
```

Check changes you've made on your branch

```
$ git status
```

Add changes to file staging area

```
$ git add <file name>
```

Add changes to all files to staging area

```
$ git add -A
```

Capture a snapshot of the projects staged changes

```
$ git commit -m <message about your commit>
```

Push to a remote branch (first time you push)

```
$ git push --set-upstream origin <your branch name>
```

Push to branch after upstream set

```
$ git push
```