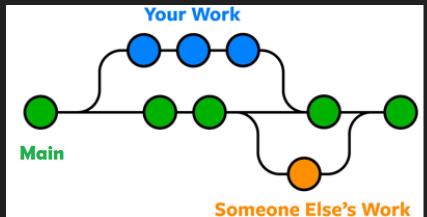
Git Branching

What is Branching?

Branching means you diverge from the main line of development and continue to do work without messing with that main line.

It is very useful when working collaboratively with others - each person can work on their own separate branch, and when ready, merge their work in with the main branch.



Creating a Branch

To create a new branch, use

git branch <new branch name>

Note: this does not switch you to the new branch.

To see this new branch, run

git branch

You will see a list of all branches with a star next to the branch you are currently on.

Changing Branches

To switch to another branch, use

git checkout <branch name>

When you switch branches, git changes the files to reflect the last commit of that branch. (Try it!)

Also, you can't switch branches if you have uncommitted changes (unless you stash those changes)

The original branch in any repo is called main

Create and switch to new branch

You can combine creating a new branch and switching into it:

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

Pushing to Branches

To push to GitHub from this new branch (after adding and committing), run

```
git push origin <branch_name>
```

You can also permanently set the branch you want to push to with:

```
git push --set-upstream origin <br/> <br/>branch name>
```

This will allow you to push from this branch using just

```
git push
```

Recommended Workflow

Clone down the group's repository:

```
git clone <repo link>
```

Create an individual branch for yourself in which to do work:

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

When done, add, commit, and push changes to your branch on GitHub:

```
git push origin <branch_name>
```