Merging

Introduction

What is merging?

- merging joins the **HISTORY** of branches together

- so any changes in one branch are refected in another

```
        feature-1  E---F---G
                  /
        main A---B---C---D
```

You *merge* INTO the branch you have currently checked out

`git checkout main`

`git merge feature-1`

```
  feature-1  E---F---G
            /         \
  main A---B---C---D---H
```

Merge Conflicts

When merging you can encounter conflits.

These happen when:

- more than one person has edited the same line in a file

- if a line that was in use has been removed

- if a file that is in use has been deleted

The conflict ONLY affects the person doing the merge

If a merge conflict occurs... Git will

- **pause** the merge

- show the files that are conflicting

- ask the developer to **resolve** the conflict

- then complete the merge