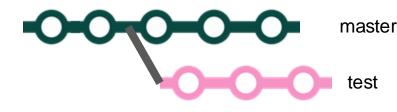


COLLABORATING IN THE SAME PROJECT: BRANCHES

- A branch is simply a different named version of the project files.
- When several developers want to add their changes to a GitHub repository, the way to do it is to create **one branch for each developer**.
- Then at the beginning of the day **each developer** pulls the latest changes from the GitHub repository.
- Creates a new branch with his/her name or topic to fix with:
 - git branch branch_name
- Switches to his/her own branch, :
 - git switch branch_name
 and start working as usuall creating commits.:
- At the end of the day, pushes his/her branch to the GitHub repo using:
 - o git push origin branch name



PROJECT BRANCHES:

- Usually, a project will have the following branches:
 - main/master
 - develop
 - developer_1
 - developer_2
 - 0 ...
- The "main/master" branch is expected to be the "gold true" and should only contain working code. It's like a "backup" version.
- Experimental code should be in the "develop" branch. All the developers contributions will be added to the "develop" branch.
- Once the "develop" is fully functional, it will be added to the "main/master"

GIT MERGE

MERGING BRANCHES:

- From time to time, once the developers have a working code in their own branches, they would like to incorporate their changes in the "develop" branch. This process is called "merge".
- To merge two branches together, we need to do the following steps:
 - switch to the "destination branch" in which we want to add the changes:
 - git switch branch_name
 - Then combine the changes of both branches using:
 - git merge developer_branch
- When we merge two branches, we can incidentally create a "conflict", because the same section of one or more files has been modified in a different way by two developers.
- In such cases, git will report us that there is a conflict on one or more files and it will
 edit the corresponding files adding some marks.

Branches: solving con

- To solve this problem we need to:
 - Edit the file and remove the changes that we don't want alongside with the marks <<<<<HEAD ====== >>>>>branch_name and save it.
 - git add modified_file
 - git commit -m "Merged branches and solving conflict"

```
colors.txt ×

src >  colors.txt

red
    Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes

colors.txt

red
    Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes

green

white

white

his-branch (Incoming Change)

blue
```