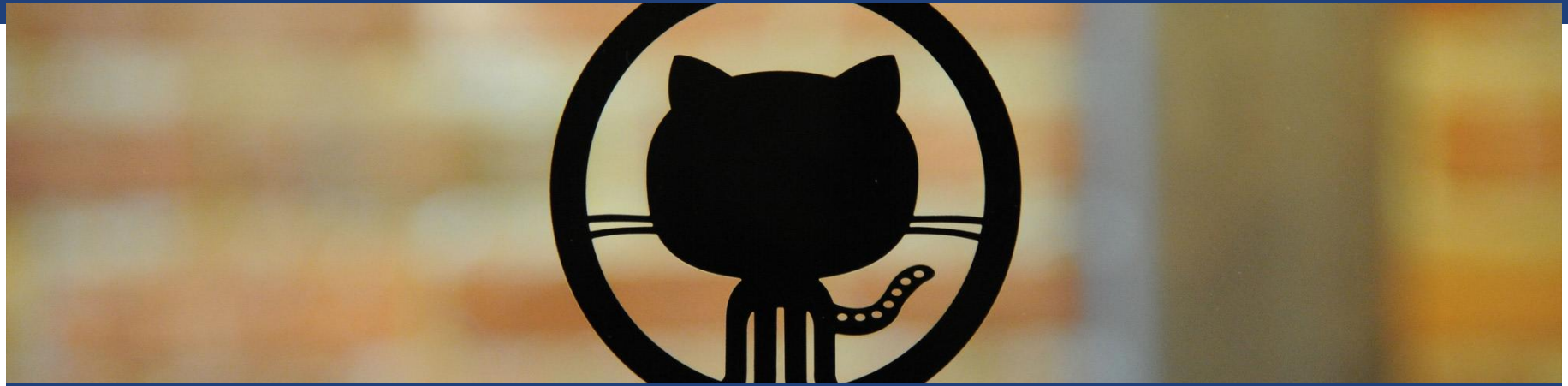


Git and GitHub

What is Git?

It is a Version Control System (VCS):

- Have multiple versions of a code (often across multiple developers/teams)
- You (and others) can see changes in the code and revert them

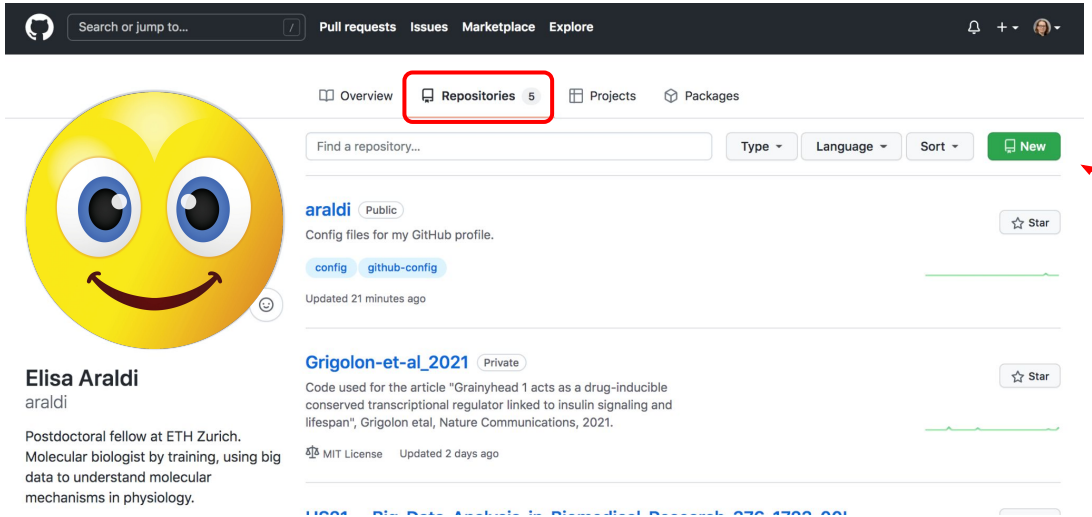
What is Github.com?

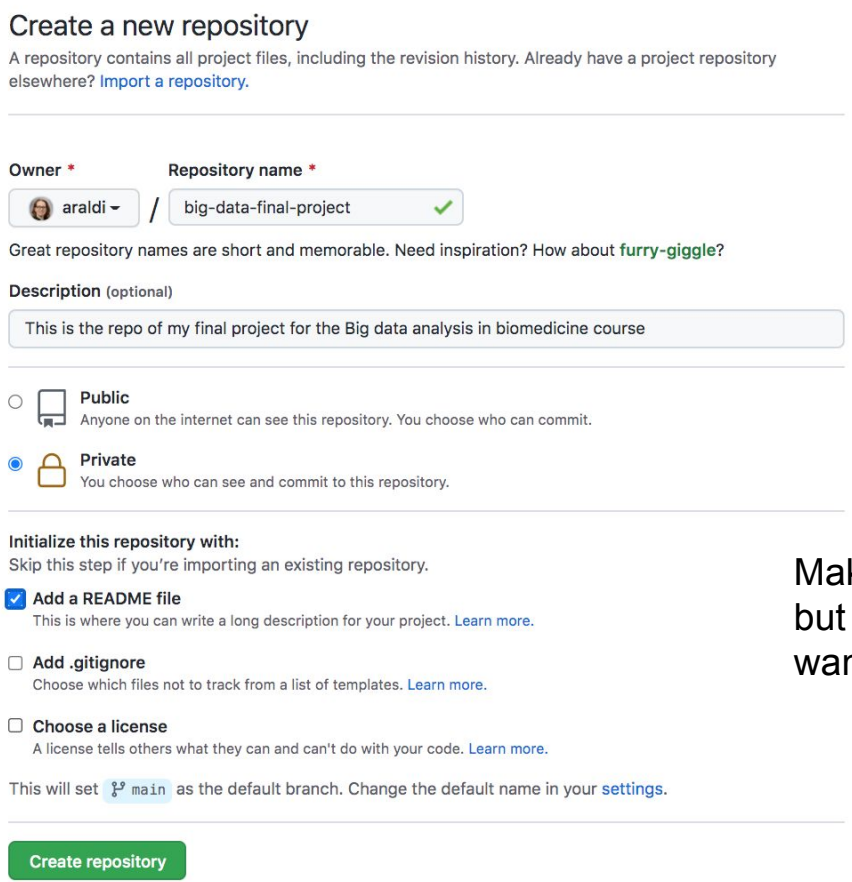
It is a website that hosts git repositories on a remote server:

- Having repositories online helps sharing codes among teams/rest of the world

How to?

1. Create a Github account;
2. Create a Github repository (include a README file with info on the project);

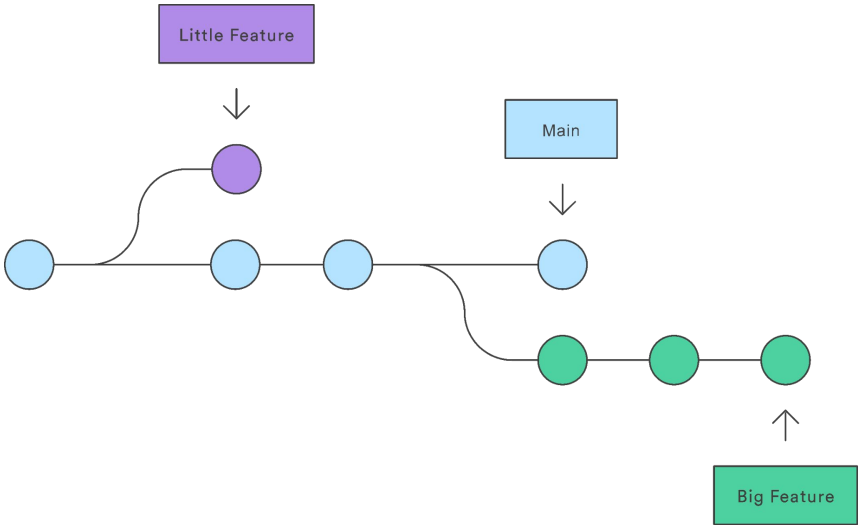


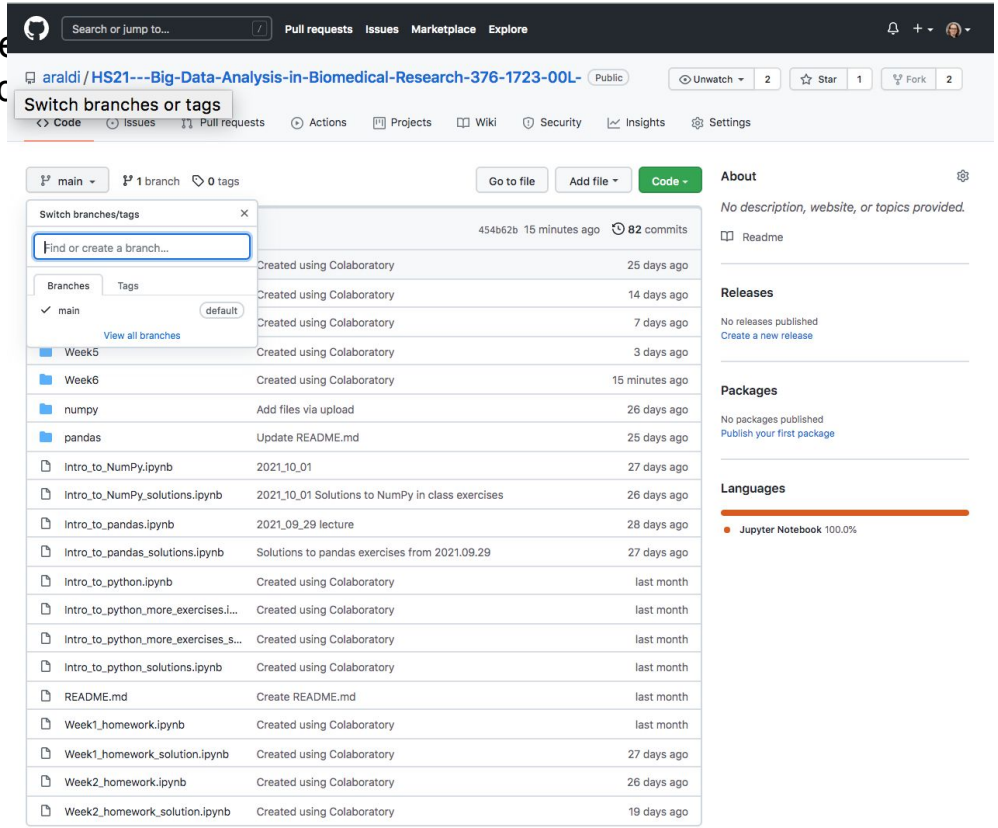


Make it private in the initial stages, but you can share with whom you want

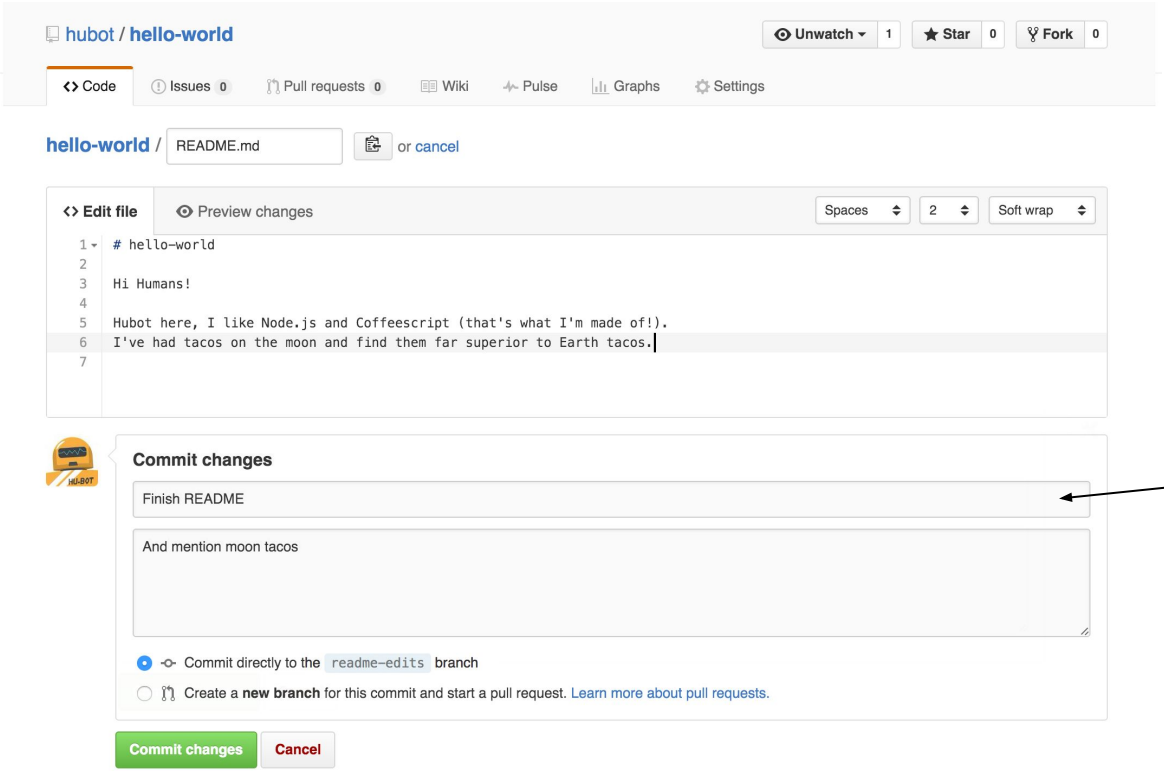
Branches

You can create multiple branches (versions) of the same repository. The branches can be considered versions where to experiment, while the main branch is used to make definitive edits.





Make and commit changes



Add the description of the change

Pull request and merge

If the changes are made in a branch outside of the main branch, open a **pull request** to implement the changes in the main branch. Mostly used for collaborative work.

Merging pull requests confirms the changes in the main branch

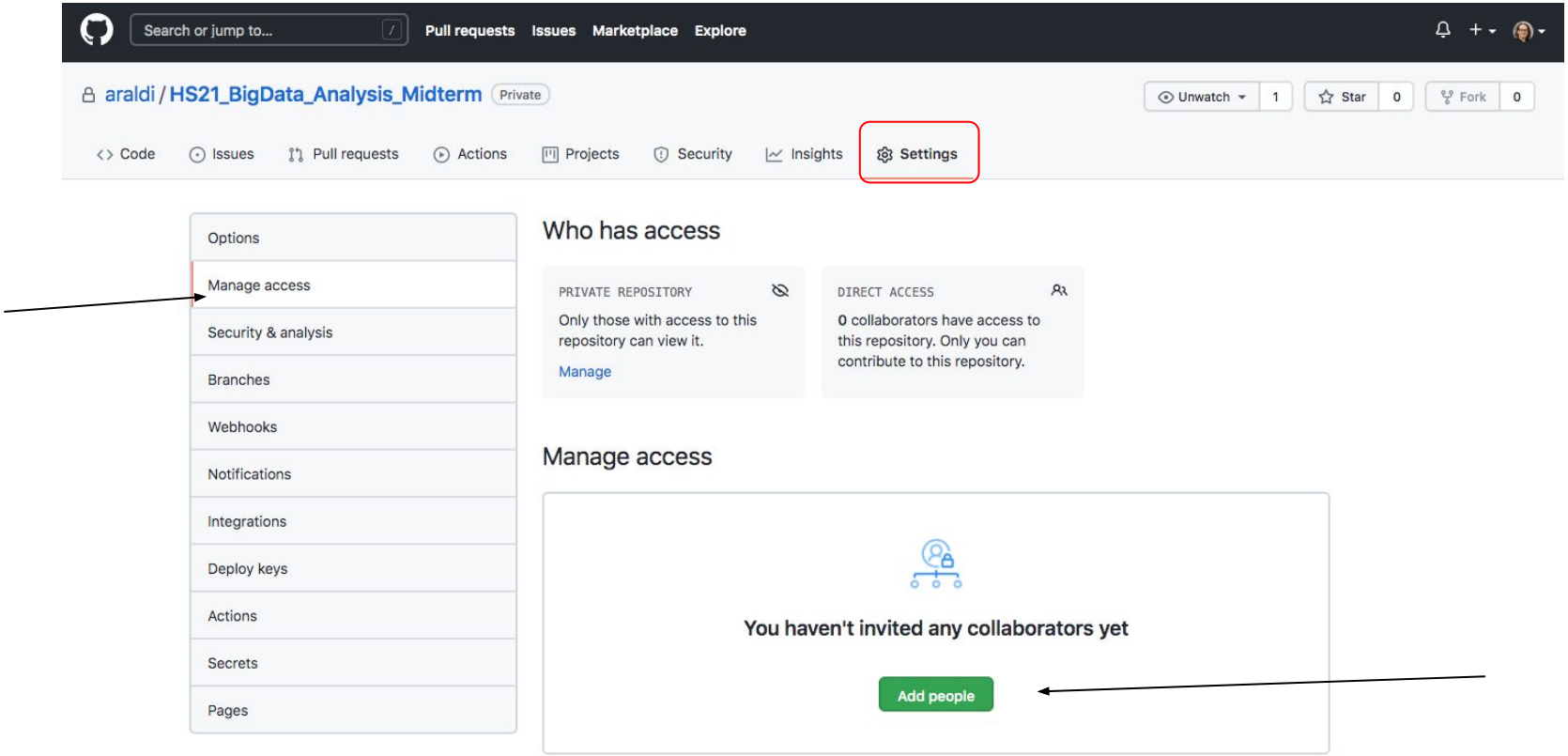
Forking projects

A **fork** produces a personal copy of the repository.

Clone the repository on your computer, using GitHub desktop or command line, to edit in a remote Jupyter notebook. **Push** changes/commits when ready.

OR open it in Google Colab, change the file there, then “Save a copy on GitHub” to save back to the GitHub repository.

To add people to a private repository



Do not forget to register for the midterm by tomorrow Nov 3rd!!

https://moodle-app2.let.ethz.ch/mod/url/view.php?id=819293