

Lesson 1 – exercises

Github

- Create a Github repository and call it data_analysis (make the repository public)
- Add the files of interest
- Commit
- Push

Once the repository has been created, it must be cloned locally on my computer (example: I can create a directory called “github” on the desktop): open the git bash and write git clone <https://name-of-the-repository> (you can find it in the “code section” of github).

In my case, 3 files were already present (they were added months ago). To add another file (such as dataset0, which was used in lesson 2), I have to manually move or copy in in my github/data_analysis folder after the clone phase. Git status indicates that I am going to modify my repository on github.

- Git add dataset0
- Git status
- Git commit -m “message, in which I indicate what I did”
- Git push origin main
- Refresh the github page → dataset0 is now present 😊

MINGW64:/c/Users/cauci/Desktop/github/data_analysis

```
cauci@DESKTOP-2NCAGS5 MINGW64 ~
$ pwd
/c/Users/cauci

cauci@DESKTOP-2NCAGS5 MINGW64 ~
$ cd /c/Users/cauci/Desktop/github

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github
$ ls

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github
$ git clone https://github.com/ChiaraCaucino/data_analysis.git
Cloning into 'data_analysis'...
remote: Enumerating objects: 16, done.
remote: Counting objects: 100% (16/16), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 16 (delta 1), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (16/16), 15.24 MiB | 1.70 MiB/s, done.
Resolving deltas: 100% (1/1), done.

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github
$ ls
data_analysis/

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github
$ cd data_analysis

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ ls
README.md 'RNAseq exemplary dataset.gz' dataset0/ scrRNAseq_exemple/

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    dataset0/

nothing added to commit but untracked files present (use "git add" to track)

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ git add dataset0
```

```
cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ git add dataset0

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   dataset0/dataset0/ra100k.R1.fastq.gz
    new file:   dataset0/dataset0/ra100k.R1_fastqc.html
    new file:   dataset0/dataset0/ra100k.R1_fastqc.zip

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ git commit -m "addition of a new file from lesson 2 of the course"
[main ab8ec85] addition of a new file from lesson 2 of the course
3 files changed, 187 insertions(+)
create mode 100644 dataset0/dataset0/ra100k.R1.fastq.gz
create mode 100644 dataset0/dataset0/ra100k.R1_fastqc.html
create mode 100644 dataset0/dataset0/ra100k.R1_fastqc.zip

cauci@DESKTOP-2NCAGS5 MINGW64 ~/Desktop/github/data_analysis (main)
$ git push origin main
Enumerating objects: 7, done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 401.70 KiB | 7.17 MiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/ChiaraCaucino/data_analysis.git
6f9c6a2..ab8ec85  main -> main
```