

Git and Github: a primer

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What is Git?

- ❏ Git is a Version Control System (VCS) designed to make it easier to have multiple versions of a code base, sometimes across multiple developers or teams
- ❏ It allows you to see changes you make to your code and easily revert them
- ❏ It is not github! (which is just a provider of git)

What is Github then?

- ❏ Github.com is a website that hosts git repositories on a remote server
- ❏ Hosting repositories on Github facilitates the sharing of codebases among teams by providing a GUI to easily fork or clone repos to a local machine
- ❏ By pushing your repositories to Github, you will pretty much automatically create your own developer portfolio as well!

Confirm that you have git

- ❏ Open your terminal and run “git”
- ❏ If you see a “command not recognized” error, you probably have not installed git yet
- ❏ Download it, according to your OS, here [**https://git-scm.com/downloads**](https://git-scm.com/downloads)
- ❏ Good reference (mostly for R users!) can be found here [**https://happygitwithr.com**](https://happygitwithr.com)
- ❏ Plenty of other free resources online

What do we need to know for the course?

Essentially nothing: meaning that you can simply treat the repository we will be using for the labs as a normal folder, and nothing about git will be asked during the exam. Yet:

- ❖ Using github will potentially help you during the NPS projects
- ❖ Most importantly, it will become fundamental if you will end up working in a data science/ programming related industry!

In practice

- Repository associated with the lab notebooks:

https://github.com/alfredo-g-zapiola/labs_NPS_AY_23_24

- Run the following commands in your terminal (in a dedicated path)
 - **git clone**
https://github.com/AndreaCappozzo/labs_NPS_AY_2022_2023 to clone it in your local folder
 - **git pull** to maintain the repository updated
- That's it!
- More to know if you want to be a proactive user (e.g., **git commit**, **git push** etc..)