**What is version control and why is it important?**

Version control is the system that helps to follow or control the changes to files over time. It allows developers to navigate inside the modification history, making it easier to manage changes to files.

With version control, a developer can reset the current modification of the code file, but it allows the developer to reset the file to the specific modification time.

Let’s say we write a Python code that asks the user for its name and age. Two days later, you update the code to ask the user for its current position and its address, and you save the file after checking that everything works fine as you want. Another day, you update the code again to ask the user for its favorite programming language. After checking that everything is fine, you save it. But three months later, you want to go back to when you asked the user for its current position and its address. If your program hasn’t added more files before, you can simply delete the lines in your code file, and everything will be fine. But with large files added and multiple modifications, a version control system like Git will help you do this operation easily.

So with Git, you can use these commands:

git add . → to tell Git that some modifications have been done, please track them.

git commit -m "some text" → to tell Git to label and save all the modifications you’ve done with a comment.

git push → to tell Git to send your current work file or folder to a remote storage like GitHub.

Let’s explain the relation between Git and GitHub.

When you use the Git version control system, it allows you to perform all the operations locally. To work with Git, you need to have a workspace folder called a repository. So GitHub is a system that allows you to create a repository remotely and then clone it onto your computer and work on it.