Version Control Systems

A **version control system** is a technology that allows developers to save all the versions and changes of specific folders or files. It has multiple benefits:

1) See the changes, decisions, and progression of any project in one place.

( git diff-- )

2) Work with different branches, which allows developers to work on different changes for the same file without interrupting themselves while developing.

( git branch branch\_name )

3) Merging changes and adjusting differences between the main directory and branches. (git merge)

6) Give names and/or tags to the different commits, allowing them to work in a more organized way.

( git tag tag\_name )

It’s **important** this kind of **system** because:

1) Keeps record of the files and changes, allowing to recover any changes in case of any emergency or potential error to delete important code.

( git restore )

2) Keeps organized the historic record of the files, and allows to see the progressions in the different commits.

( git log )

3) Allows modifying the changes, even by hunks.

( git add -p)