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| What is version control and its importance |
| Short overview |
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| **Mahmood Alnasiri 201300762**  **CMPS420**  **Dr. Nasser Tabook** |
| **Computer science**  **CAAS**  **Dhofar University**  **Fall 2018/2019** |

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WHAT IS VERSION CONTROL?

Version control allows you to keep track of your work and helps you to easily explore the changes you have made, be it data, coding scripts, notes, etc. You are probably already doing some type of version control, if you save multiple files, such as Dissertation\_script\_25thFeb.R, Dissertation\_script\_26thFeb.R, etc. This approach will leave you with tens or hundreds of similar files, making it rather cumbersome to directly compare different versions, and is not easy to share among collaborators. With version control software such as Git, version control is much smoother and easier to implement. Using an online platform like Github to store your files means that you have an online backup of your work, which is beneficial for both you and your collaborators.

BINIFITS OF USING VERSION CONTROL OR IMPORTANCE:

Having a GitHub repo makes it simple for you to monitor cooperative and individual undertakings - all records essential for specific examinations can be held together and individuals can include their code, charts, and so on as the activities create. Each record on GitHub has a history, making it simple to investigate the progressions that jumped out at it at various time focuses. You can audit other individuals' code, add remarks to specific lines or the general report, and recommend changes. For shared activities, GitHub enables you to allocate assignments to various clients, clarifying who is in charge of which part of the investigation. You can likewise request that specific clients audit your code. For individual undertakings, variant control enables you to monitor your work and effectively explore among the numerous forms of the documents you make, while additionally keeping up an online reinforcement.

WHAT IS REPOSITORY?

You can think about an archive (otherwise known as a repo) as an "ace organizer", everything related with a particular task ought to be kept in a repo for that undertaking. Repos can encapsulate envelopes, or simply be isolated records. You will have a neighborhood duplicate (on your PC) and an online duplicate (on GitHub) of the considerable number of records in the vault

Example of using githup:

1 – create repository to save your work in githup website.

2- create a folder and open it in visual studio code and initialize git by using the code: (git init).

3– create any file and save it

4- use the code (git add . ) to add all the files that I added in git.

5 – I have to commit the file by using the code (git commit –m”msg”)

6- to keep track on the work use (git status).

7- (git log ) gives the history of saving to make sure that I saved my work.

8- now I have to upload it in master (git push origin master).

9- now just refresh the githup account and you will find your project there.

References:

1. <https://ourcodingclub.github.io/2017/02/27/git.html>
2. https://rubygarage.org/blog/most-basic-git-commands-with-examples