**Git Training**

**Basic Terminology**

* **Working Directory:** Local working place
* **Staging Area:** Also called “Index”, “cache” or “current directory chace”. Is the place where you need to add your files before to commit them.
* **Local Repository:** Is a subdirectory name .git that contains all your necessary repository files. A git repository skeleton.
* **Remote Repository:** Version of your project hosted in the internet (e.g. GitHub) ensuring all your changes are available for other developers.

**Hands on session**

1. Create a folder named **/fuerteventura2019** into your pc.
2. Create a [GitHub](http://www.github.com) account. [Tutorial](https://guides.github.com/activities/hello-world/)
3. Into your GitHub account create a project named **git\_training**, (include README.md)
4. Clone the project using git Bash into the folder **/fuerteventura2019.**
5. Into the cloned project create four files: **file\_1.py**, **file\_2.py**, **info.txt, index.html** (write some code into the four files).
6. Run **$git status** to check the status of your of all your files. You will notice that all the files are untracked. From here you need to **add** them into the Staging Area
7. Run: **$git add . ,** It will add all the files into the Staging Area. If you want to add a specific file you have to run **$git add <filename>.** If you want to add all files with specific extension you have to run **$git add \*.<extension>.**

**NOTE: If you want to unstage all the files back to your local Working Directory you have to run:** **$git reset**

1. Now you need to commit the files from the Staging Area into the Local Repository. To do that you have to run: **$git commit -m “message”**
2. Run **$git push origin master** to push the committed Local Repository to the Master Branch of the Remote Repository. Now your Remote Repository is updated with your local changes.
3. Now you want to get back your Remote Repository updated with the changes that your colleagues have made. Simply run: **$git pull origin master**
4. Work again to your files, make all the changes you need and than follow the steps from #1 to #9 in order to save your work back to the Remote Repository.

Tutorials:

[Git Cheet Sheet](http://files.zeroturnaround.com/pdf/zt_git_cheat_sheet.pdf?_ga=2.193759336.496155868.1567445332-858476857.1567445332)

[Youtube Tutorials](https://www.youtube.com/githubguides)

[Online Training](https://try.github.io/)

[Official Web Page](https://git-scm.com/)