Lesson 1.0

Git Control.

Git is a [free and open source](https://git-scm.com/about/free-and-open-source) distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is easy to learn and has a tiny footprint with lightning fast performance.

In this course we will study how to use it and do the basic commands related to it ofr our future works.

Installations.

To install git is very easy just follow the steps below.

Step 1: Download Git here <https://git-scm.com/downloads>

Click on the version you want either Windows, Mac or Linux

Step 2: Install it by double clicking on it and follow with your trainer.

Step 3: Good you are done installing Git

Now let’s start using it with our case study platform

Case study Github

GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 31 million developers.

I think the definition says it all github helps you manage your project among your teams and help in collaboration work. To use github is very simple and we will see it as follows

**Step 1:** Create an account at <https://github.com/>

**Step 2:** Sign In

**Step 3:** Create a new repository project without initializing your repository

**Step 4:** Go to into the root of folder of your project which you want to git.

**Step 5:** Do the following steps: -

To the following steps you must open your terminal and the following first so as to be authenticated by github: -

* *Git config –global user.name “johne doe”* (this command set your user name in your user name so that github should recognize you).
* *Git config –global user.email “email@example »* (this command set your github email address)

**Step 5.1:** git init (This command tells to github that a new repository has been created).

**Step 5.1:** git add . (this commands makes all the available files in the folder to be ready for the uploading).

**Step 5.3:** git commit -m “your comment” (this command put comments in each of the files change)

**Step 5.4** git remote add origin link of your github repository (this command tells git to where the files will be push).

**Step 5.5:** git push -u origin master (this command pushes all the files to the repository given).

**How to continuing maintaining a project**

To continue maintain your project do the following steps?

**Step 1:** git pull (this command pulls all the changes in your project and update your current project)

**Step 2:** git push (this command pushes back all your files back to your project repository

Note to do that you must start back to **step 5.1)**