

# EEB603\_GitTutorial

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## Part One: Introduction and Installation

### 1. Introduction: Why Git and GitHub?

**What's the difference between Git and GitHub.**

Git is a **version control system** that is like a supped up version of the “Track Changes” feature within Microsoft Word. Git allows the different collaborators on a project to track changes and revert to older versions if needed.

GitHub is a cloud based platform built around Git that stores code *pushed* to it from a computer that uses Git.

### 2. Register for a GitHub Account

If you do not currently have a GitHub account then you will register for one today! If you already have a GitHub account, sit back and relax while your classmates get set up.

1. Go to <https://github.com>
2. Pick a username that incorporates your actual name. Enter an email and create a password.
3. Select a plan: Free is all you will likely need.
4. (optional) Answer a few questions about your code skill level, plans for using GitHub, and lost some interests.
5. You'll get a verification email.
6. When you click the link from the Verification you will be taken to your new GitHub account with the option to create your first repository or *repo*. Do not make one yet. We will come back to that.

### 3. Upgrade R and RStudio

We all have R and RStudio on our own computers by now, but here you can check your version and upgrade if needed.

```
R.version.string
```

```
## [1] "R version 3.6.1 (2019-07-05)"
```

If you would like to update your current R packages you can use the following command:

```
#update.packages(ask = FALSE, checkBuilt = TRUE)
```

### 4. Install Git

Open up the terminal or shell and check to see if you already git installed.

```
which git  
git --version
```

```
## /usr/bin/git  
## git version 2.20.1 (Apple Git-117)
```

4.1 Windows Installation

4.2 macOS Installation

5. Bonjour Git, enchanté

6. Optional: Install a Git client