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.

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

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, enchante
- 6. Optional: Install a Git client
- 9. Connect to GitHub

###Make a repo

Here, we are just making sure we can push and pull and everyone is communicating.

- 1. Head to https://github.com/ and check that you're still logged in
- 2. Click on the green "New" button or click on "Repositories" on your profile page and then click on the "New" button.



3. Fill in:

Repository name

Description: something for the README file

Public (for now)

and then YES initilize the repo with a README

For everything else, select default.

- 4. Click "Create repository"
- 5. Copy the HTTP clone URL to your clipboard via green "Clone or Download" button