

Assignment 1 - Setting up the computing environment. Due September 20, 2018.

EPIB607 - Inferential Statistics^a

^aFall 2018, McGill University

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Computing is an essential part of modern statistics. However, before doing any data analysis, we must first install the necessary tools. In this assignment you will first sign up for a free DataCamp account and login to your McGill GitHub account. Then you will complete a series of DataCamp courses that will guide you through installing R, RStudio and Git. After installation, you will learn how to use the RStudio IDE, create projects and run some basic commands. You will then be introduced to R Markdown which is a tool for creating reproducible reports. All future assignments for this course must be in R Markdown format and submitted to a private online GitHub repository.

R | RStudio | Git | GitHub | R Markdown | DataCamp

Marking

Your progress and completion of these courses will be available to us automatically through the DataCamp website. **You do not need to hand anything in for this Assignment.** You will receive full credits for this assignment once we have seen that all tasks have been completed.

1. Sign up for DataCamp and GitHub

Please try to complete this step before class on Thursday September 6:

1. Sign up for a free DataCamp account at [this link](#). Note: you are required to sign up with a @mail.mcgill.ca or @mcgill.ca email address.
2. Sign in to <https://github.mcgill.ca/> using your McGill email address and corresponding password.

2. Install Git

You need to first install the [git](#) version control system on your system. Follow Chapter 1: Installing Git at [this link](#) for step-by-step installation instructions with screenshots.

3. Install R and RStudio

This short course will guide you through installing both [R](#) and [RStudio](#). RStudio is a software application that facilitates how you interact with R. Click on the link the in the figure caption join the course.



Fig. 1. Working with the RStudio IDE (Part 1)

<https://sahirbhatnagar.com/EPIB607/>

4. Introduction to R

In this course you will get a hands-on introduction to the basic commands in R. With the knowledge gained in this course, you will be ready to perform a data analysis. Click on the link the in the figure caption join the course.



Fig. 2. Introduction to R

5. R Markdown

You will learn how to create reproducible reports using R and Markdown. All assignments for this course must be submitted in this format. Click on the link the in the figure caption join the course.



Fig. 3. Reporting with R Markdown

6. GitHub using RStudio

You will learn how to use RStudio to version control your code. All assignments for this course must be submitted to a GitHub repository. Click on the link the in the figure caption join the course (Chapter 2 only).



Fig. 4. Version Control with RStudio IDE (Chapter 2 only)

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