

BIO247 – Lab 1

Description

In this lab, you will

- Organize and create a directory
- Create a README file
- Download copies of files from GitHub
- Introduce yourself to SNP data

Protocol

Creating your Directory:

To help keep your work organized for your eventual project this semester, it will be helpful for you to set up your folders. This will help keep you organized, and help you access folders using the terminal or coding scripts

- Using your syllabus, create an organization system of folders for your work this semester
- You may use the terminal to make these directories, or you can use the traditional method of manually creating the new folder

Adding Data to your Directory:

In chapter 3, we will learn how to pull data directly from databases, without needing to download. For now, we will practice downloading data for offline use.

Also recall from the Chapter 1 and Chapter 2 lectures what information is important to take note of when using existing data (e.g. when downloaded)

- Go to github.com/vsbuffalo/bds, and navigate to Chapter 8
- Download *Dataset_S1.txt*
- Move this file to the relevant file in your created directory

Creating your README:

Your README file is the “blueprint” or map for your directory, teaching other users how to get around.

In this lab, we will be writing our README in markdown, a language that allows users to add formatting to plain text files. Guidelines on creating formatting in markdown can be found at <https://www.markdownguide.org/basic-syntax/>

The benefits of markdown are that README files are easier to read, even in raw form. When included as part of a github directory,

- If you would like a specialized editor for markdown files, you can download [MacDown](#) (OSX) or [MarkdownPad](#) (Windows). The plain text editor on your laptop is also sufficient (TextEdit or Notepad)
- Create a README file for the directory you created
- In this file, include information about the data file *Dataset_S1.txt*

Report/Rubric

1. You will create a README file describing your directory for BIO247. An example README can be found on Sakai under the Resources tab
2. I will be looking for the following things in your file:
 - a. The file must be either a markdown (.md) or PDF (.pdf) file
 - b. I will be looking for consistent naming conventions
 - c. I will be looking to see if you made effective use of markdown formatting, e.g., headers, lists, etc.
 - d. I will be looking to see if the location and contents of *Dataset_S1.txt* are clear, i.e., if I ask another professor “can you tell me what kind of stuff are we dealing with in BIO247?” they can answer.