Assignment 1: Introduction

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OVERVIEW

This exercise accompanies the introductory material in Environmental Data Analytics.

Directions

1. Change "Student Name" on line 3 (above) with your name.
2. Work through the steps, **creating code and output** that fulfill each instruction.
3. Be sure to **answer the questions** in this assignment document.
4. When you have completed the assignment, **Knit** the text and code into a single PDF file.
5. After Knitting, submit the completed exercise (PDF file) to the dropbox in Sakai. Add your last name into the file name (e.g., "Lima_A01_Introduction.Rmd") prior to submission.

The completed exercise is due on <>.

1) Discussion Questions

1. What are your previous experiences with data analytics, R, and Git? Include both formal and informal training.

   Answer: My first introduction to programming and Git was through an internship where we learned very high-level Linux HPC system administration stuff - it was confusing and overwhelming but it also got me hooked on the elegance and efficiency of coding. Since then, I taught myself Python and learned R through structured stats coursework. I took stats (R) and advanced GIS (Python) here at Duke, and I have used programming (both Python and R) in previous jobs and current projects to write data analysis scripts (in environmental remediation and forest ecology contexts).

2. Are there any components of the course about which you feel confident?

   Answer: I am pretty confident in my programming experience and my ability to sift through documentation and online forums to find what I need. I feel like much of this class will review what I already know and help me take a deeper dive into the nuances of writing good code and doing good data analysis.

3. Are there any components of the course about which you feel apprehensive?

   Answer: I have never had a good relationship with Git - I have always found the architecture and interface confusing and annoying. I know it is a really useful tool though, and I want to learn how to use it more seamlessly to track and share my code.

2) GitHub

Provide a link below to your forked course repository in GitHub. Make sure you have pulled all recent changes from the course repository and that you have updated your course README file.

Answer: https://github.com/enikoebihari/Environmental_Data_Analytics_2022