

EC 103–003

Lab Practice 4

Prof. Santetti

Spring 2023

INSTRUCTIONS: *Lab Practices* have the purpose of reviewing the previous applied video lecture(s) and introducing new content to improve students' empirical macroeconomic analysis using **R** and **RStudio**.

In this practice, you will start practicing your first `ggplot` skills. First, you will check out some *incorrect* coding, and, secondly, think backwards to figure out the code that generated a given plot.

There are 2 problems, worth 10 points.

Assignment due February 20 (M), by the end of class.

Points Possible: 10

- Our *course syllabus* covers late submission policies. Turn in your assignment by the due date.
- Be honest. Don't cheat.
- As a Skidmore student, always recall your votes of academic integrity, and the **Honor Code** you have abided by:

"I hereby accept membership in the Skidmore College community and, with full realization of the responsibilities inherent in membership, do agree to adhere to honesty and integrity in all relationships, to be considerate of the rights of others, and to abide by the college regulations."

Have fun!

Problem 1

Suppose a friend of yours is trying to chart the inflation rate for Australia over time using their "ggplotting" knowledge. Their attempts are not being successful, though. You will come for their rescue. For the following two parts, point out what is being done *incorrectly* in each plotting attempt: (5 points)

(a)

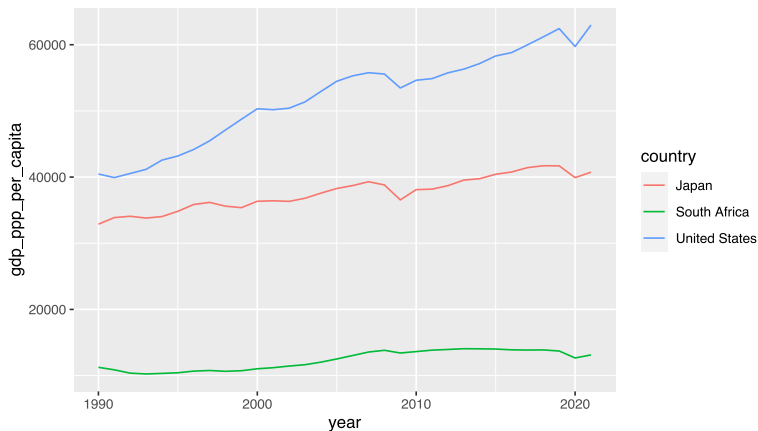
```
data %>%  
  ggplot(aes(x = year, y = inflation_rate)) %>%  
  geom_line()
```

(b)

```
data %>%  
  ggplot(x = year, y = inflation_rate) +  
  geom_line()
```

Problem 2

This time, you will work backwards. Below is a plot made using the `gdp-data.csv` file you've used for the *Lab 3* video lecture. Figure out the code that produced this chart. *Hint 1:* You have access to the data file, so you can check if your code actually reproduces this plot. *Hint 2:* Pay close attention each axis variable. (5 points)



Write your answers in a fresh R script. When you are done, save it and submit this single R file through [theSpring](#).