

Assignment 1: Graphics

Due: **Friday, February 14, 2020**

Find a graph drawn from data and published by your thesis supervisor (she/he need only be a co-author on the paper). The graph should be one that you feel could be much improved. If your supervisor is flawless, pick a graph by another in your group or department. **Students from the same lab: don't choose same or very similar graphs.**

Analyze the graph in a few sentences. Explain the study. Explain what patterns the graph is intended to display. Explain the flaws in the graph - why does it not succeed?

Recreate the graph in R using principles of effective display. Try to obtain and make use of the raw data, otherwise extract them from the graph (you could try [data-thief](#)) or simulate similar data.

Analyze your new graph according to principles of good graph design. Explain how your improvements display the patterns more effectively than the original. Why does your graph succeed?

Email your assignment to me (imgonigl@sfu.ca) as a single pdf file with filename:

LASTNAME_FIRSTNAME_ASSIGNMENT1.pdf

Attach your R code.

Rubric

1. Quality of your analysis of the original graph [**5 points**]
2. Degree of improvement of the new graph [**5 points**]
3. Quality of your R code [**5 points**]
Annotated, readable, and "general" organization.