Lesson 6: Introduction to graphs and

graphing relationships

# Overview

This week we will be learning about the connection between data, aesthetics, and the grammar of graphics. We will reinforce these concepts using the grammatical layers that inherent in ggplot. We will also learn how to label the basic elements of a graph, discuss the use of marks in data visualization, and apply some of the channels we discussed during lesson 4. **Last Journal Club Group 1 will be presenting on the following article: The Science of** [**Visual**](https://www.dropbox.com/s/jny0glqzqd3fh1v/Franconeri_author_corrected.pdf?dl=0) **Data Communication: What Works. Please come to class prepared to discuss.**

# Required Readings for Lesson 6

* Read: Wilke, C. (2019). Chapter 2 - Visualizing data: Mapping data onto aesthetics. (pp. 7-12 [Book]; pp. 1-7 [PDF]).
* Read: Healy, K. (2018). Chapter 3 - Make a Plot. (pp. 54-72).
* Read: “[What’s the Difference Between JPG, PNG, and GIF?” “File formats explained](https://gizmodo.com/5656669/whats-the-difference-between-jpg-png-and-gif)”
* Read (Journal Club article) Franconeri, S. L., Padilla, L. M., Shah, P., Zacks, J. M., & Hullman, J. (2021). The Science of [Visual](https://www.dropbox.com/s/jny0glqzqd3fh1v/Franconeri_author_corrected.pdf?dl=0) Data Communication: What Works. Psychological Science in the Public Interest.

# Lesson 6 Lab

* Introduction to graphing in ggplot.

# Week 6 Deliverables and Tasks

* Due: Lab L3 due in Blackboard (11PM)
* Due: Final project datasets descriptions due in Blackboard (11PM)