Computational Fundamentals: D3

Week 3: D3 Foundations 2

Nicole Cote, Spring 2024

Check In

What we'll cover

- Building from "Hello World"
- SVG intro
- Making a simple chart with SVG
- Review HW assignment/specifics

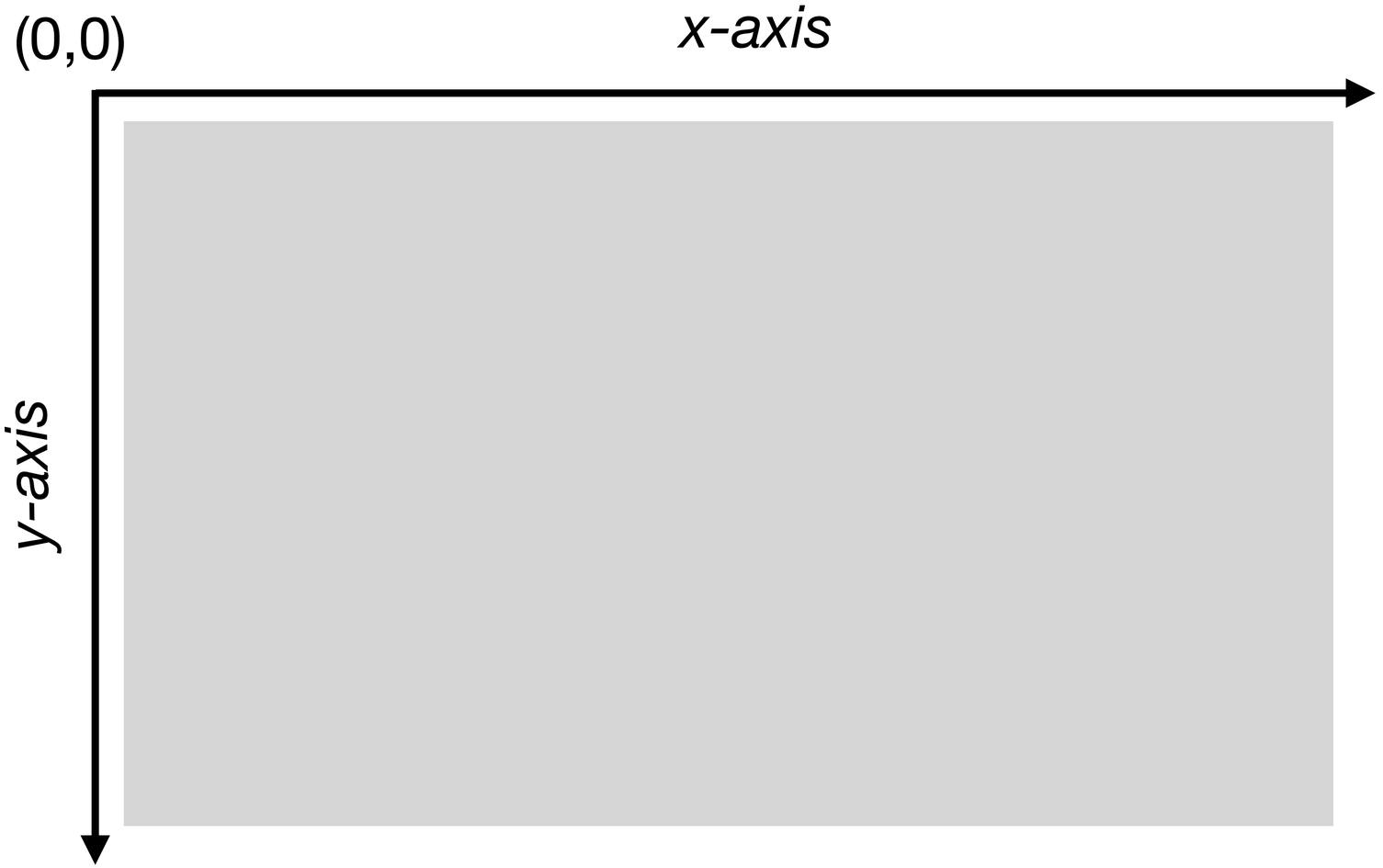
Building from “Hello World”

Chaining

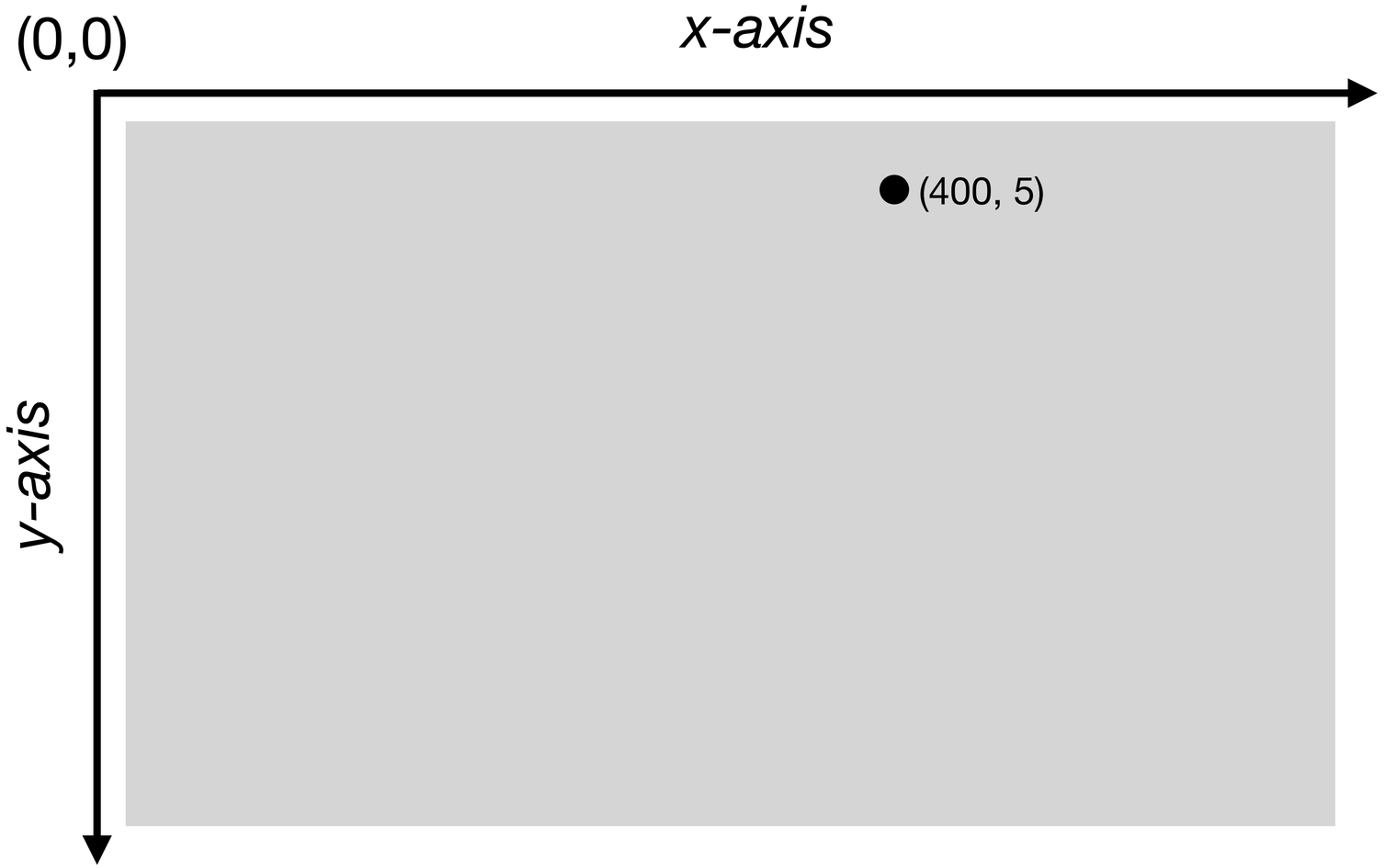
Selecting and Binding Data

SVG

SVG Coordinates

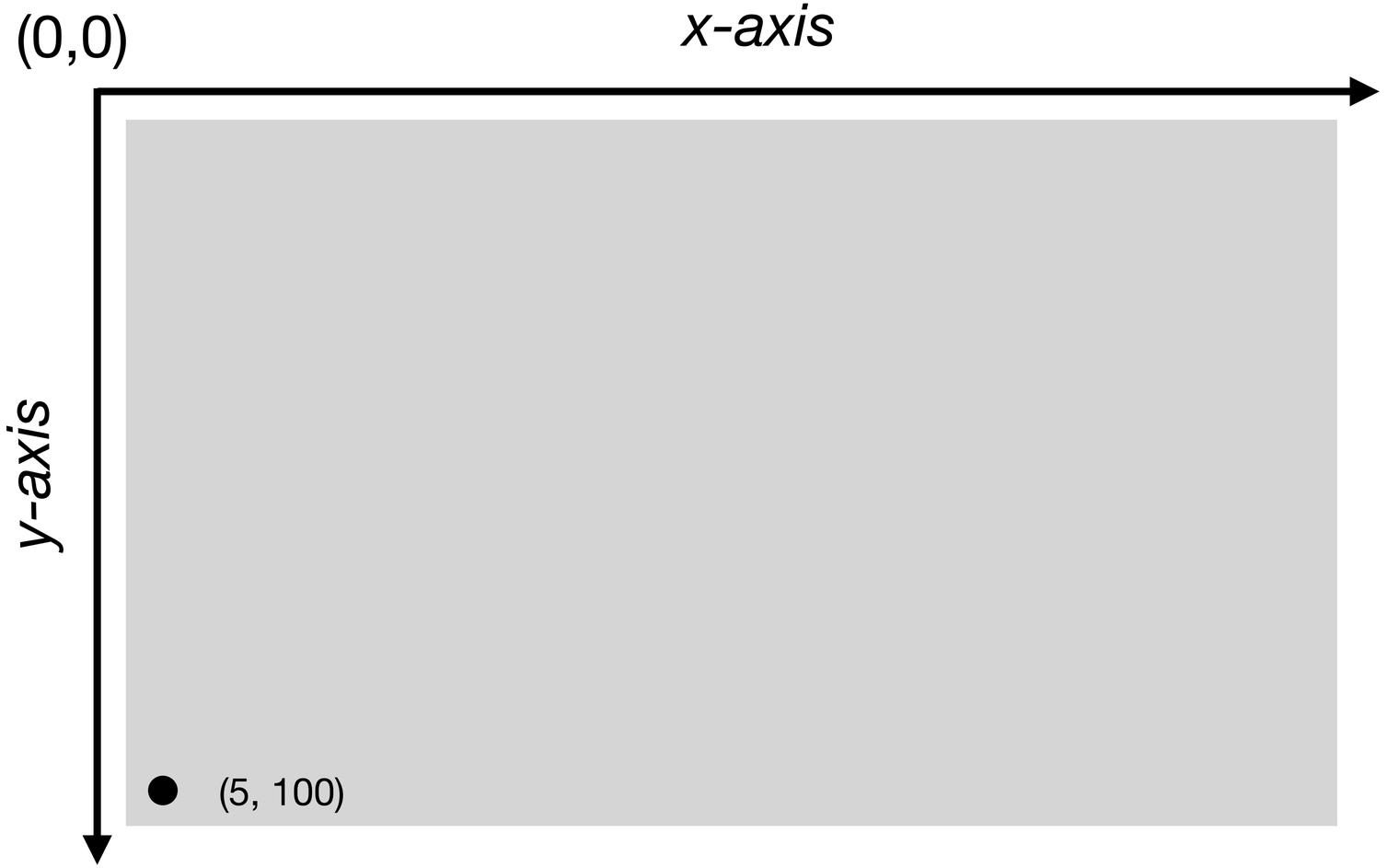


SVG Coordinates Pt 2



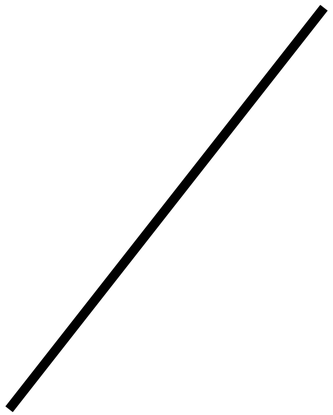
In this example the svg's width = 500 and height = 100

SVG Coordinates Pt 3

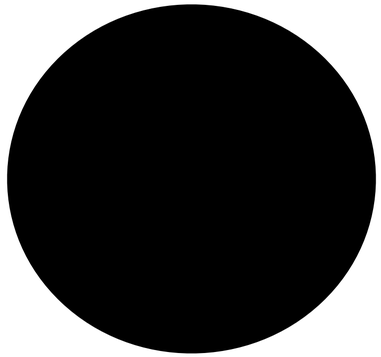


In this example the svg's width = 500 and height = 100

SVG Shapes

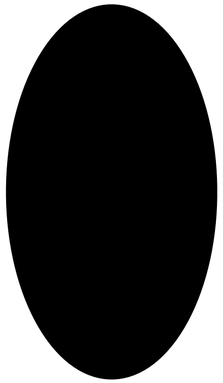


line



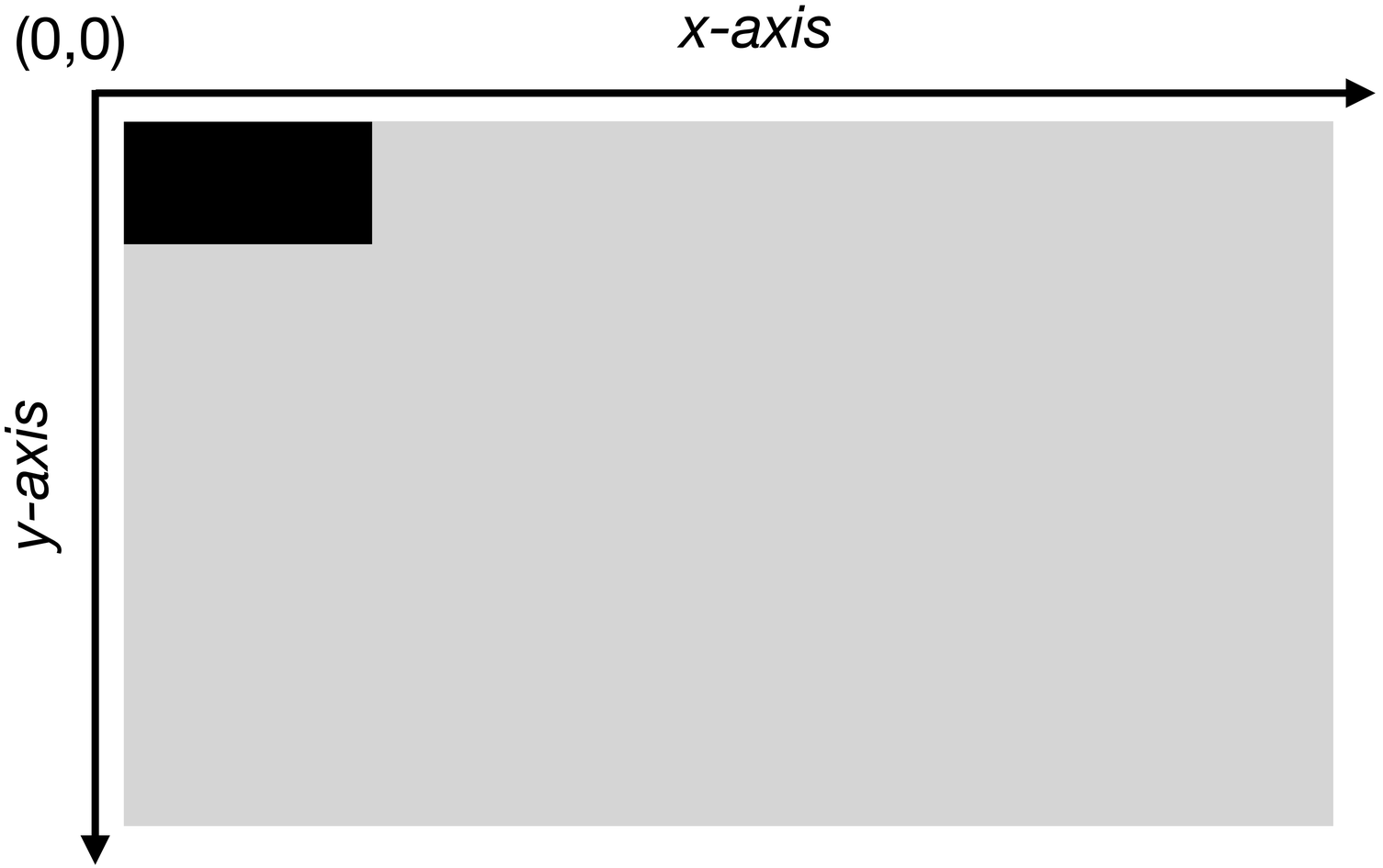
circle

rect



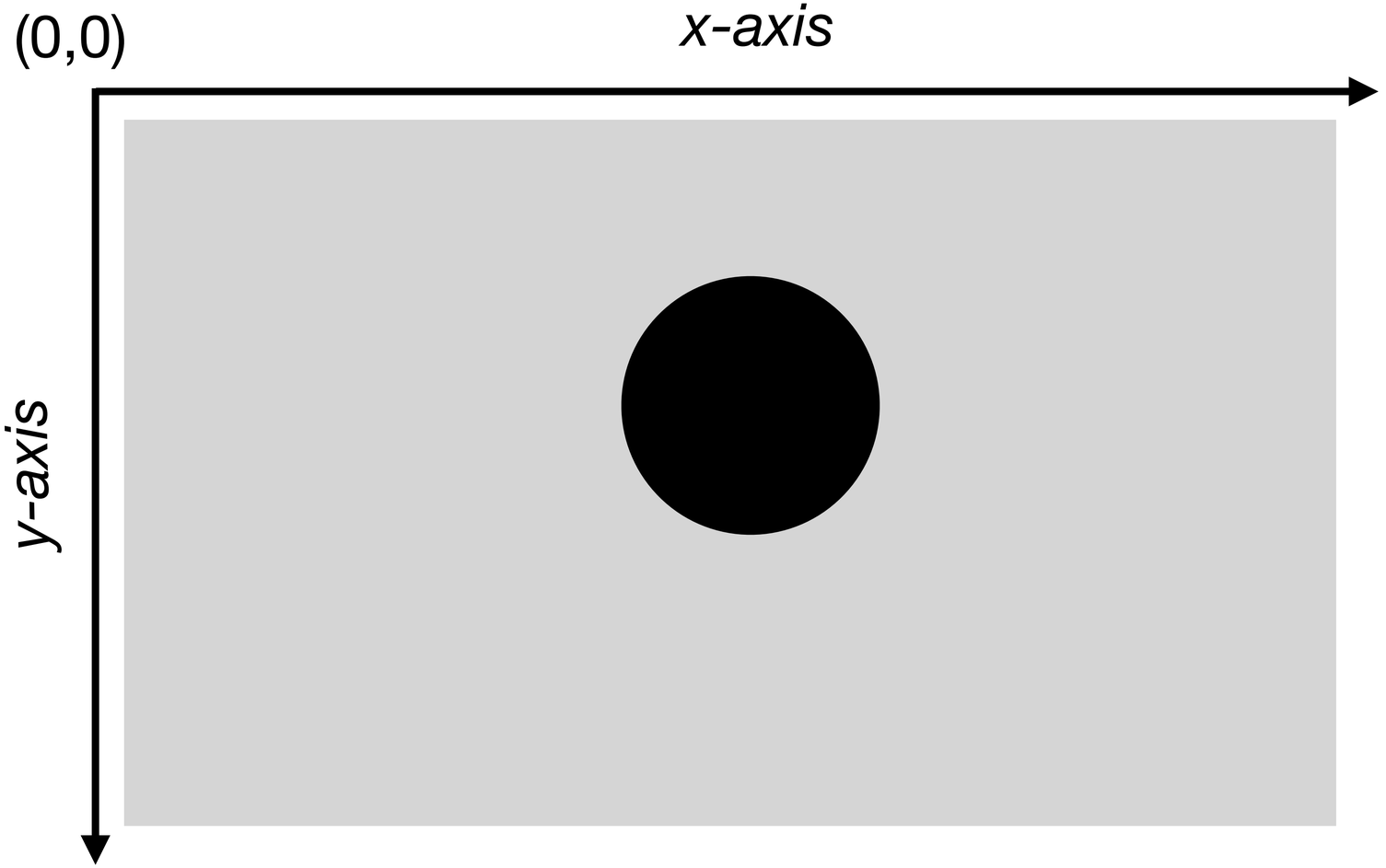
ellipse

SVG Shapes Pt 2



<rect **x**="0" **y**="0" **width** = "100" **height** = "50"/>

SVG Shapes Pt 3



<circle **cx**="250" **cy**="100" **r** = "50"/>

Some Initial SVG Styling

- fill
- stroke
- stroke-width

SVG Example: Simple Bar Chart

Homework

Assignment

- Create a simple scatterplot with SVG using **only**: the provided homework "worksheet," this deck, the deck from last class, and any notes you took in class.
  - Required: your scatterplot should have data labels.
  - Reminder: all work should be completed on your own.
- Upload all HW files (worksheet, visual documentation, README) to your GitHub *before* next week's class.
  - Reminder: The README must follow the submission format and requirements for this course. Your GitHub organization must also follow the stated structure (see last week's slides for guidance)
- Optional: You will need a simple dataset (e.g. CSV) for next week's homework—you might start thinking about that now—but we will always talk about this next week, and so holding off is entirely reasonable.
  - NOTE: think about how data is formatted—will it be a bar chart? a scatterplot/bubble chart? Plan on one of those formats. For this assignment the data should be something very simple that you created, rather than something you simply randomly downloaded from online. It should be a clean simple data file (e.g. CSV) that you entirely understand.
  - NOTE: you are always welcome to create bespoke datasets for your homework (even very nuanced/small datasets a la Giorgia Lupi and Stefanie Posavec's "Dear Data" project if you prefer and provided it fits the assignment requirements)