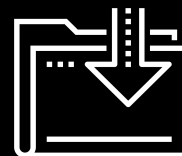


Data Boot Camp
Lesson 12.1



The Big Picture





Quick Tip for Success:

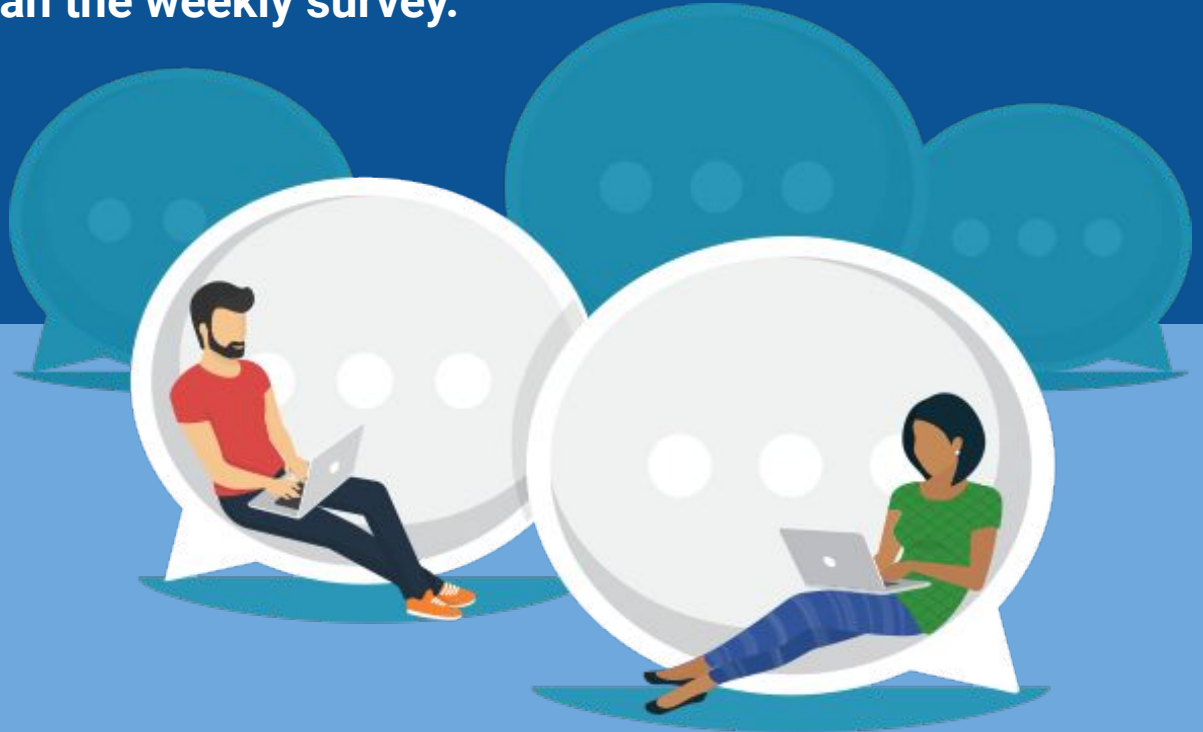
You're at the midpoint of the program! Take a minute to celebrate how far you've come since the first day of class.

Congratulations on reaching the midpoint of the program!

**You'll be asked to take a mid-course survey soon.
It'll be a little different than the weekly survey.**

**Make sure to take
your time with
your answers.**

**We want to hear
what you have to say!**



Module 12

This Week: Plotly.js

This Week: Plotly.js

By the end of this week, you'll know how to:



Create basic plots with Plotly, including bar charts, line charts, and pie charts



Use `D3.json()` to fetch external data, such as CSV files and web APIs



Parse data in JSON format



Use functional programming in JavaScript to manipulate data



Use JavaScript's Math library to manipulate numbers



Use event handlers in JavaScript to add interactivity to a data visualization



Deploy an interactive chart to GitHub Pages



This Week's Challenge

Using the skills learned throughout the week, create a customized dashboard on a webpage using a horizontal bar chart, a bubble chart, and a gauge chart



Career Connection

How will you use this module's content in your career?

Module 12

How to Succeed This Week



Quick Tip for Success:

Having a diverse toolkit at your disposal is important! With Plotly, you'll be able to efficiently create interactive plots with a continuously evolving product.

Module 12

Today's Agenda

Today's Agenda

By completing today's activities, you'll learn the following skills:

01

Creating basic plots

02

Using `map()`, `filter()`, `slice()`, and `sort()` to transform plots

03

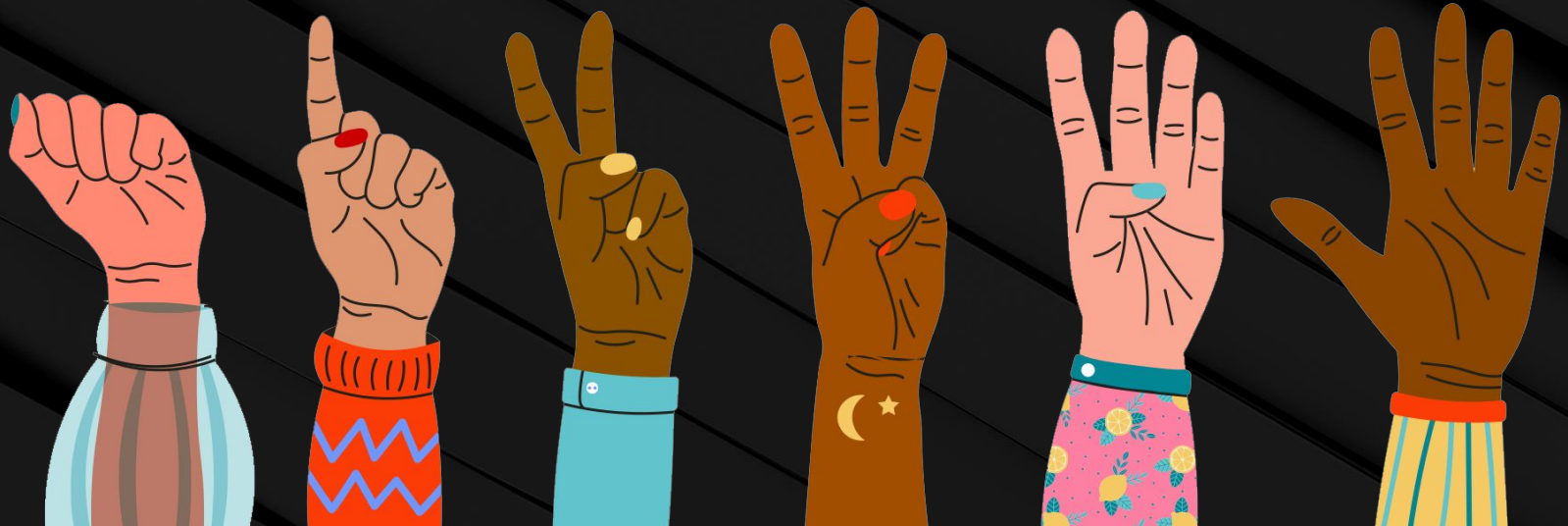
Using anonymous arrow functions to shorten syntax



Make sure you've downloaded
any relevant class files!

FIST TO FIVE:

How comfortable do you feel with this topic?

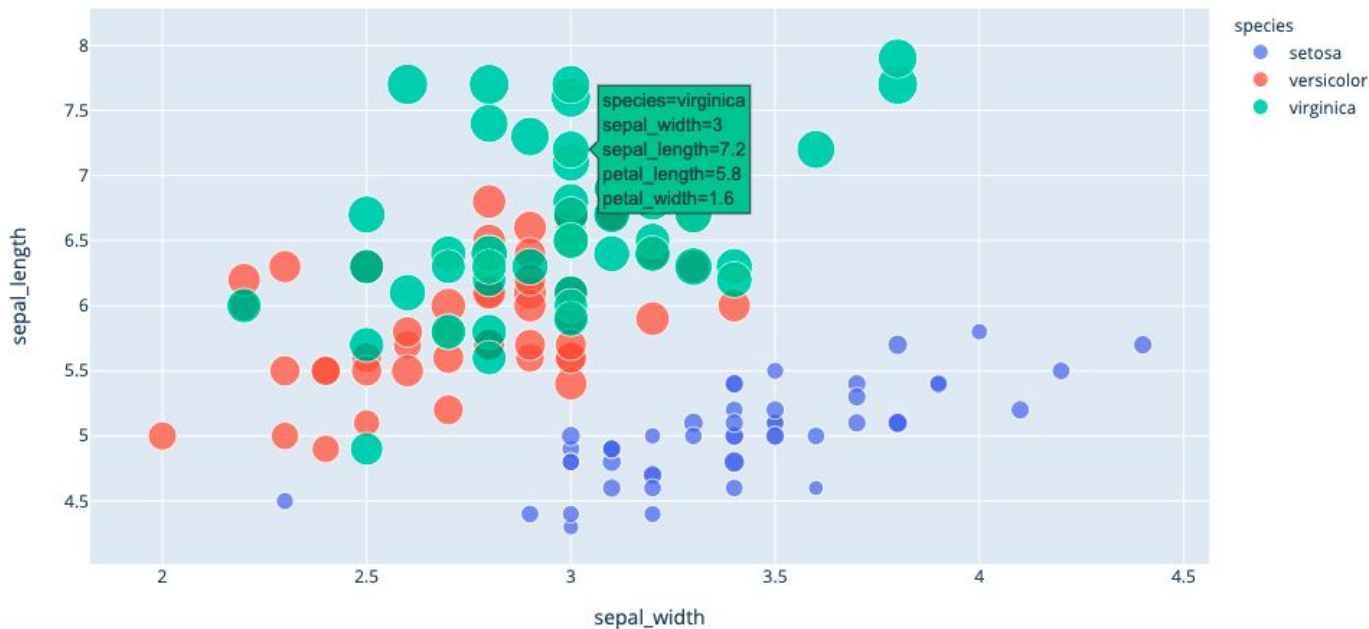




Plotly

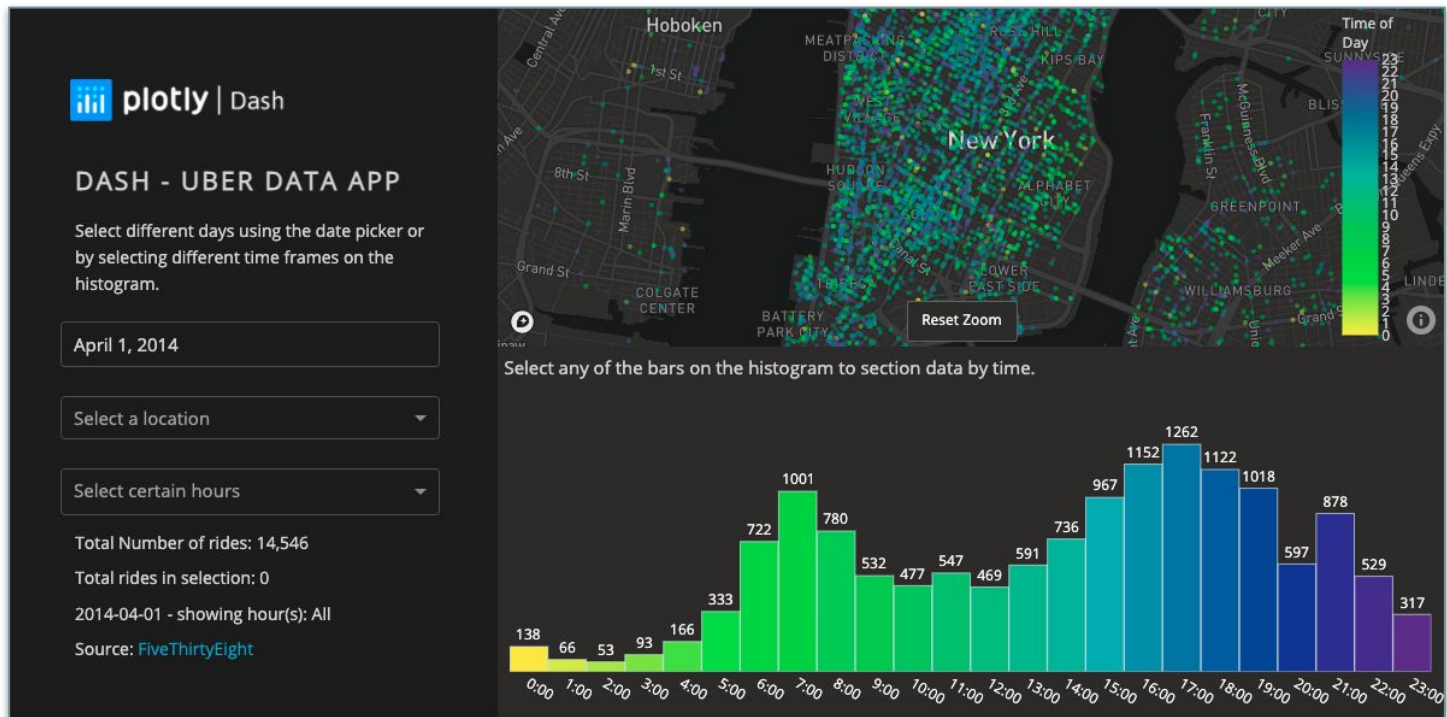
Plotly

Data professionals not only need to analyze and draw conclusions based on data, but they also need to visualize the data to allow their audience to draw the same conclusions. Interactivity helps with this.



Plotly

A JavaScript visual library like Plotly offers engaging data visualizations that can be disseminated to a wide audience.





Visualization is a big trend in
reproducible data science and
data journalism.

Learn more about [this trend](#).



Instructor Demonstration

Basic Plots with Plotly



Activity: A Flicker of the Eye

In this activity, you will create a Plotly bar chart that shows the relationship between eye color and the frequency of eye flickers.

Suggested Time:
15 minutes





Let's Review

Filtering



Time to Code

Filter/Map/Arrow Warm-Up

Suggested Time:

15 minutes



Activity: Fastest-Growing Cities

In this activity, you will use functional programming techniques to plot the cities with the fastest-growing populations.

Suggested Time:
15 minutes





Let's Review



Instructor Demonstration

Sorting and Slicing



Activity: Slice, Dice, and Sort

In this activity, you will practice sorting and slicing, and then use those skills to create a bar chart of the top 10 most popular Greek gods.

Suggested Time:
15 minutes





Let's Review

Questions?

