Plotly.js

Data Boot Camp
Lesson 12.1

The Big Picture

Python Unit
Python
Pandas
Matplotlib
APIs
Unit Assessment

Visualization Unit
Web Scraping
Plotly
Leaflet
Tableau
Unit Assessment

Final Project
Project Design
Train Model &
Build Database
*Dashboards
Presentation*

01

03

05

02

04

06

Excel Unit
Excel
VBA
Unit Assessment

Databases Unit
SQL
ETL
SQLite
Unit Assessment

Advanced Topics Unit
R−Stats
Big Data−AWS
Machine Learning
Unit Assessment

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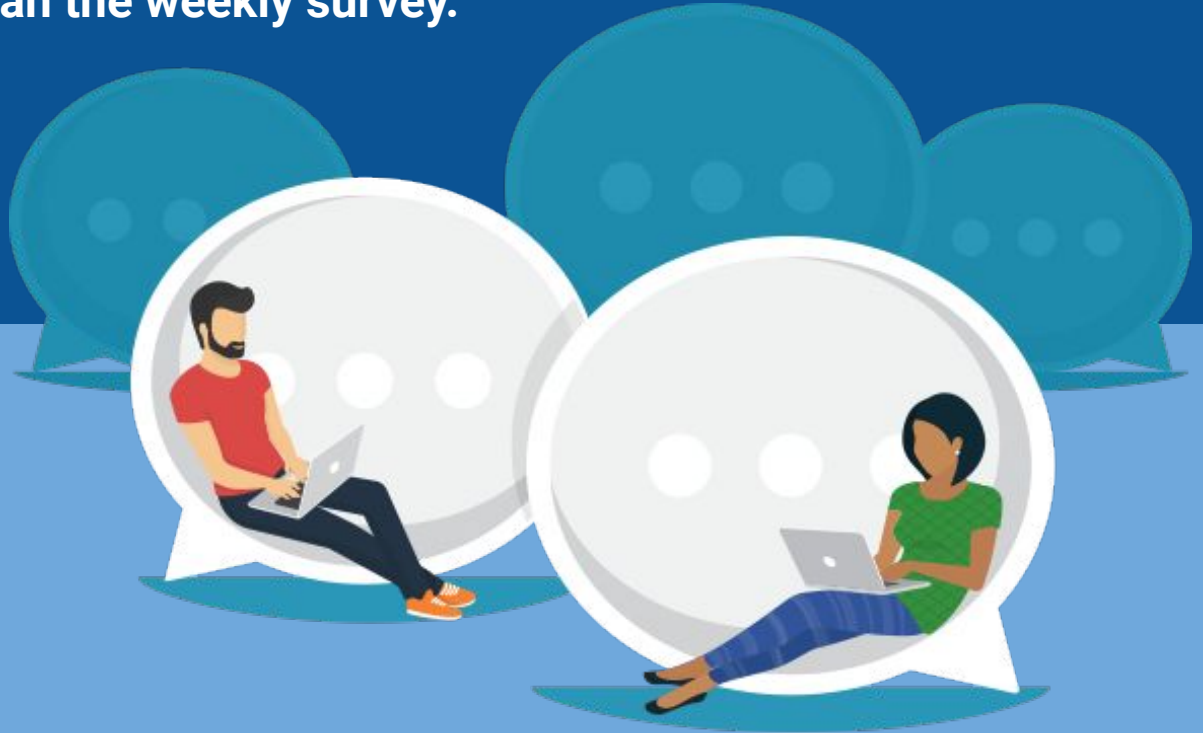You're at the midpoint of the program! Take a minute to celebrate how far you've come since the first day of class.

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

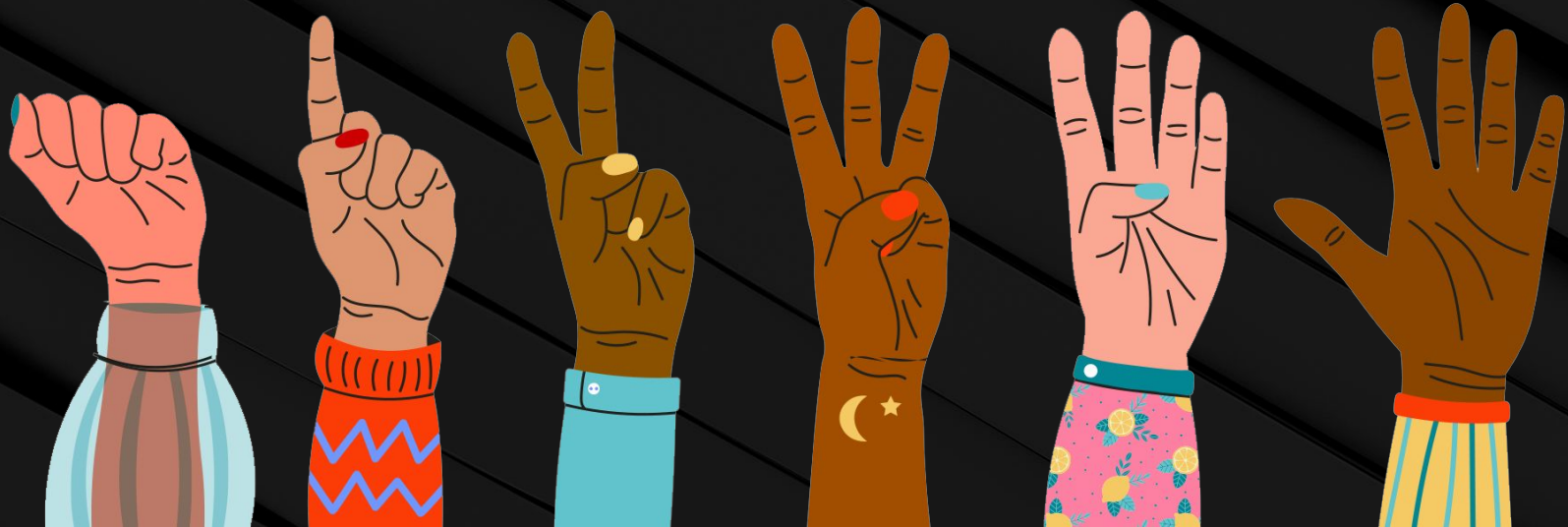**03** Using anonymous arrow functions to shorten syntax

Make sure you've downloaded any relevant class files!

FIST TO FIVE:
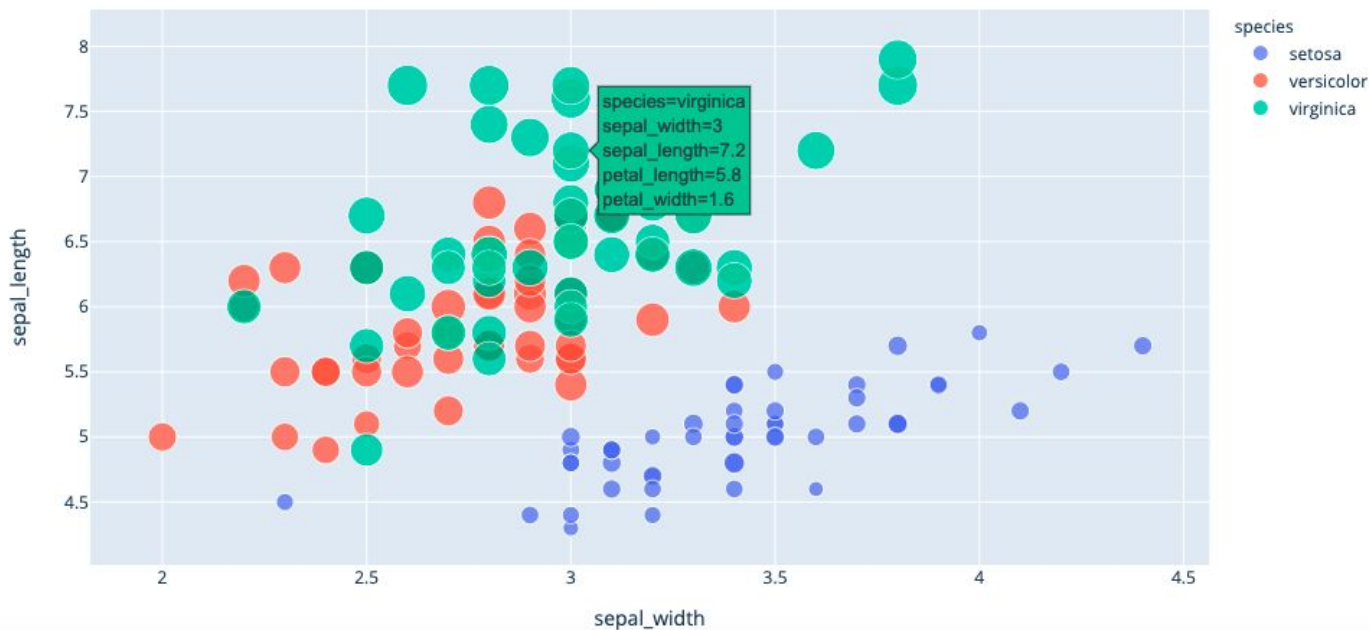
How comfortable do you feel with this topic?

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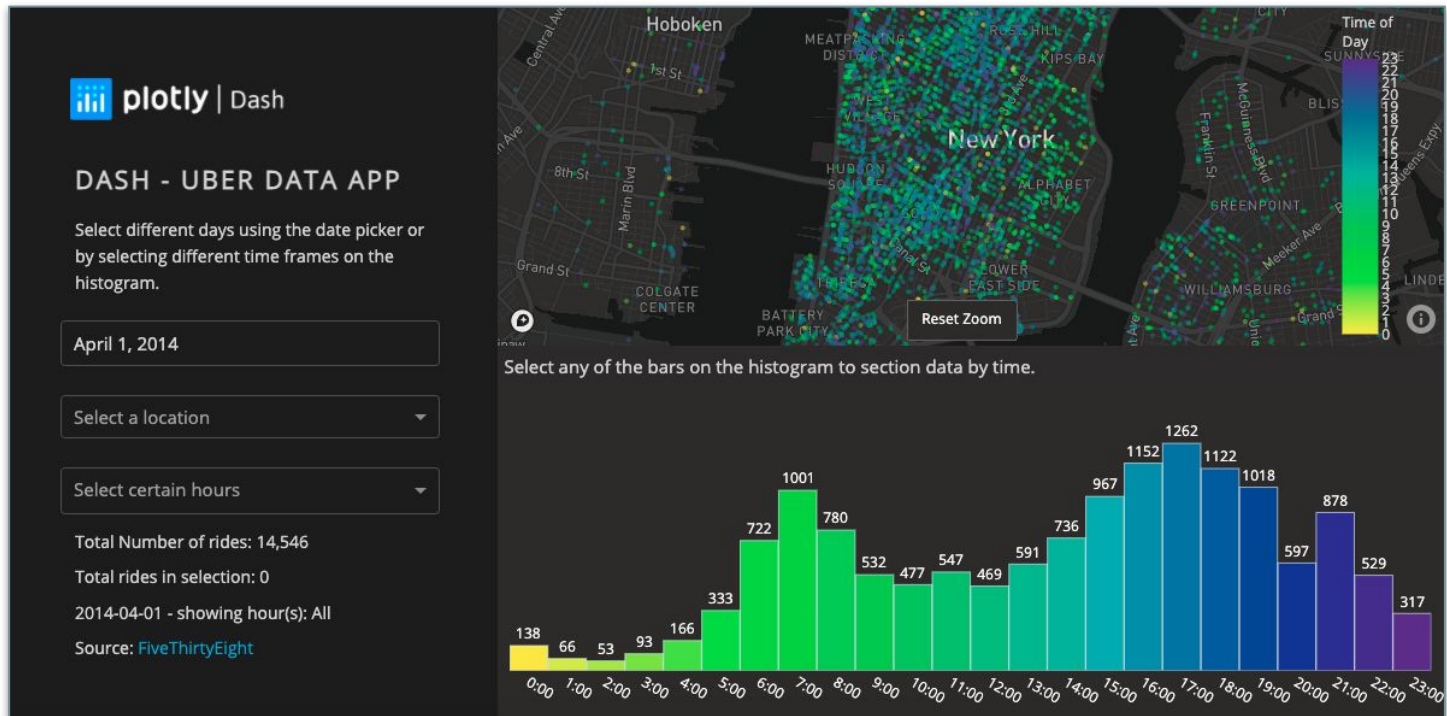
Visualization is a big trend in reproducible data science and data journalism.

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.

Let's Review

Questions?