

12.0.2 Module 12 Roadmap

Looking Ahead

In this module, you will use Plotly.js, a JavaScript data visualization library, to create an interactive data visualization for the web. The completed work will be displayed in a portfolio you create.

To be successful in this module, you'll need to be familiar with HTML and basic JavaScript.

What You Will Learn

By the end of this module, you will be able 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.
- How to use interactivity to enhance your visualizations.
- Deploy an interactive chart to GitHub Pages.

Planning Your Schedule

Here's a quick look at the lessons and assignments you'll cover in this module. You can use the time estimates to help pace your learning and plan your schedule.

- Introduction to Module 12 (15 mins)
- Getting Started with Plotly (1 hour)
- Transform Data with JavaScript (4 hours)
- Retrieve External Data (4 hours)
- JavaScript Events (3 hours)
- Deployment (15 mins)
- Application (5 hours)

Unit: Visualizations

**Module 11:
UFO Sightings
with JavaScript**
Complete



Module 12: Plotly and Belly Button Biodiversity

Build an interactive dashboard using Plotly.js to explore data on the biodiversity of belly buttons. Then deploy your dashboard to a cloud server.



**Module 13:
Mapping
Earthquakes
with JS and APIs**