Module 14 Interactive Visualizations

JavaScript with D3.js

DOM – Document Object Model

HTML – Hyper Text MarkUp Language

Every tag in the HTML is an object.

1. !DOCTYPE html>
2. <html lang = “en”>
3. <head>
4. <meta charset = “UTF-8”>
5. <title>/<title>
6. </head>
7. <body>
8. Hello World
9. </body>
10. </html>

D3.js is an incredibly powerful visualization library written in JavaScript. Data Professionals use it to create interactive data visualizations in browsers.

Index.html

An event is an action triggered by the user or the browser. JavaScript listens for the event to then execute the code (interact with HTML).

Activity: Button

There are several event types that are supported by the browser, including

* Click
* Change
* Keydown
* Scroll

Function handleClick() {

Console.log(

Click Me! Is a button

Click me hello

My goal is to click on click me and get an image.

Self in Python, “this” in Javascript.

Class MyClass:

Constructor

What is an object in Python

Instance of a Class

People is Class

Walter is an object.

You click on a button, then you trigger in a function.

It can be very resourceful to identify which element triggered an event.

Selects all the buttons in the document.

D3.selectAll(“button”).on(“click, function()