### **Piruz Alemi**

### **Report on D3, JavaScript, HTML – CSS**

Date: Feb 10, 2020

### **Level 1: Automatic Table and Date Search**

1. Created a basic HTML web page. (I built my own signed custom page!).
2. Using the UFO dataset provided in the form of an array of JavaScript objects, wrote code that appends a table to my web page and then adds new rows of data for each UFO sighting dynamically utiolizing D3. See also:

<https://getbootstrap.com/docs/3.3/css/#tables-striped>

1. Made sure I had a column for:
   * + - * date/time,
         * city, state,
         * country, shape
         * comment

at the very least, as in:

{

datetime: "1/11/2010",

city: "fairfield",

state: "ca",

country: "us",

shape: "oval",

durationMinutes: "unknown",

comments: "Shape was black in color"

},

1. Used a date form in my HTML document and wrote JavaScript code that would listen for events and search through the date/time column or through State to find rows that match user’s input. In short two Search options were provided

### **Level 2: Multiple Search Categories (Optional)**

* Completed all of Level 1 criteria.
* Using multiple input tags and/or select dropdowns, wrote JavaScript code so the user can set multiple filters, searched for UFO sightings using the following criteria based on the table columns:
  1. date/time
  2. city
  3. state
  4. country
  5. shape

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**Steps:**

* Used D3 to convert the Bootstrap table into a striped table.
* Use D3 to select the table body and appended a new row and cells for the new data.

**For background See:**

* [Bootstrap Striped Tables](http://getbootstrap.com/docs/3.3/css/" \l "tables-striped" \t "_blank)
* <https://giphy.com/artists>
* <https://media.giphy.com/media/hDSy8w6rGHeTe/giphy.gif>
* <https://www.mokafolio.de/information>

Used the following Arrow, Map & Filter Functions:

A screenshot of a social media post

Description automatically generated

A snapshot of the final result from a dynamic output of moving UFO sightings:

A screenshot of a cell phone

Description automatically generated