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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
- 3. 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"
},
```

4. 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

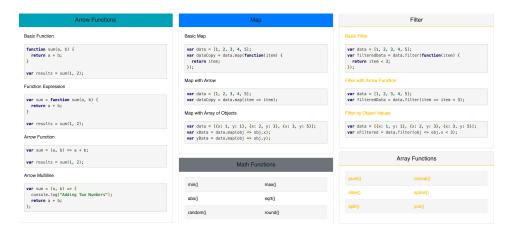
Steps:

- 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:

- o Bootstrap Striped Tables
- o https://giphy.com/artists
- o https://media.giphy.com/media/hDSy8w6rGHeTe/giphy.gif
- o https://www.mokafolio.de/information

Used the following Arrow, Map & Filter Functions:



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

