

Module 14 Challenge - The Belly Button Biodiversity

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Repository – https://github.com/RajAgrawal99/SMU_DS_Bootcamp_March2023_RA.git

Folder – belly-button-challenge

Data source

samples.json from the URL - <https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-classroom/v1.1/14-Interactive-Web-Visualizations/02-Homework/samples.json>
Index.html

1. Use the D3 library to read in `samples.json` from the URL

Example of index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Bellybutton Biodiversity</title>
  <script src="https://d3js.org/d3.v7.min.js"></script>
  <script src="https://cdn.plot.ly/plotly-latest.min.js"></script>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
</head>
<body>
  <div class="container-fluid">
    <div class="row">
      <div class="col-md-12 jumbotron text-center">
        <h1>Belly Button Biodiversity Dashboard</h1>
        <p>Use below interactive charts, to explore the dataset</p>
      </div>
    </div>
  </div>
```

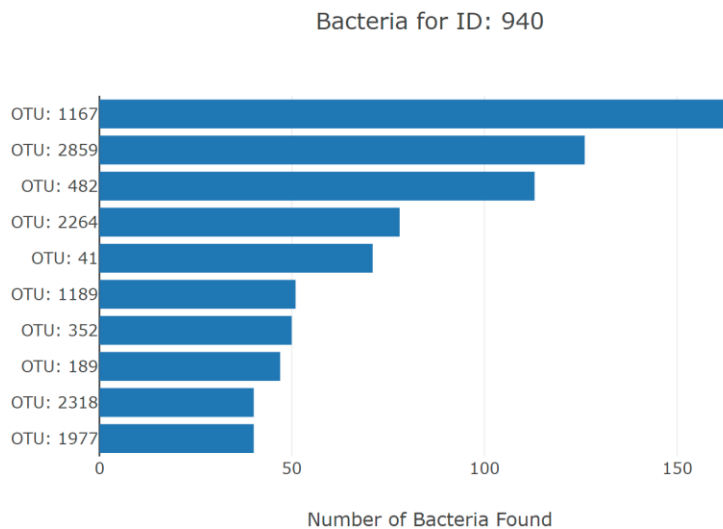
Example of app.js

```
// on page start...

d3.json("https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-classroom/v1.1/14-Interactive-Web-Visualizations/02-Homework/samples.json").then(function (data) {
  console.log(data);
});
```

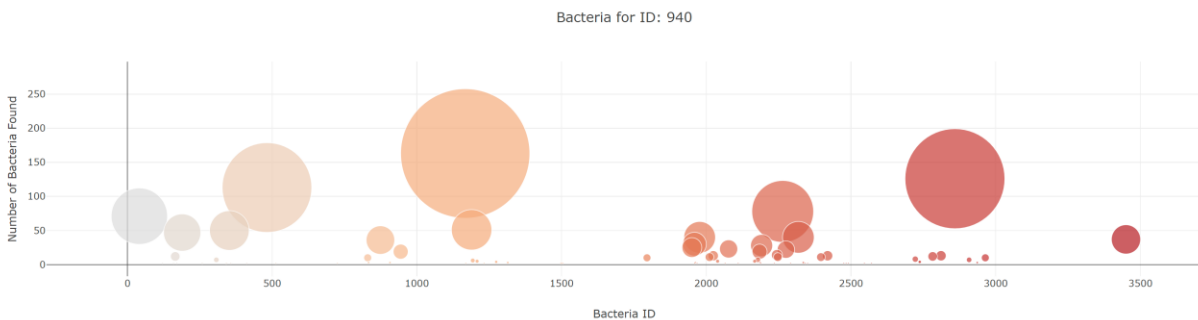
2. horizontal bar chart with a dropdown menu to display the top 10 OTUs found in that individual.

- Use `sample_values` as the values for the bar chart.
- Use `otu_ids` as the labels for the bar chart.
- Use `otu_labels` as the hovertext for the chart.



3. bubble chart that displays each sample.

- Use `otu_ids` for the x values.
- Use `sample_values` for the y values.
- Use `sample_values` for the marker size.
- Use `otu_ids` for the marker colors.
- Use `otu_labels` for the text values.



4. Display the sample metadata, i.e., an **individual's demographic information**.
5. Display **each key-value pair** from the metadata JSON object somewhere on the page.

Test Subject ID No.:

940

Demographic Info

id: 940

ethnicity: Caucasian

gender: F

age: 24

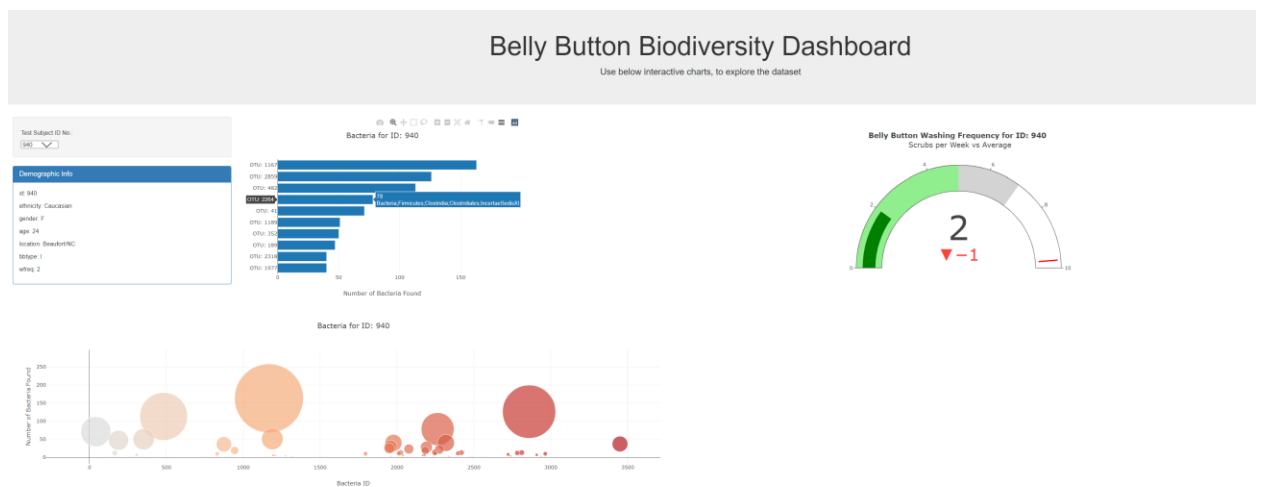
location: Beaufort/NC

bbtype: I

wfreq: 2

6. An example dashboard is shown

127.0.0.1:5500/belly-button-challenge/StarterCode/index.html



Bacteria for ID: 940

7. README.md file