1. Create a new repository for this project called belly-button-challenge. *Do not add this Challenge to an existing repository*.
2. Clone the new repository to your computer.
3. Inside your local git repository, copy the files from in the StarterCode folder contained within the Module 14 Challenge zip file. i.e. index.html, samples.json, and the static folder.

**note**

You will not be required to access the samples.json file locally, but it is provided for reference.

1. Push the above changes to GitHub.
2. Deploy the new repository to GitHub Pages.

**Files**

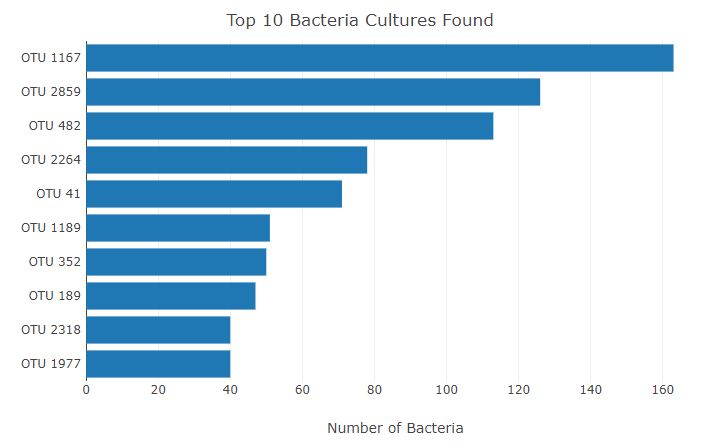
Download the following files to help you get started:

[Module 14 Challenge filesLinks to an external site.](https://static.bc-edx.com/data/dla-1-2/m14/lms/starter/Starter_Code.zip)

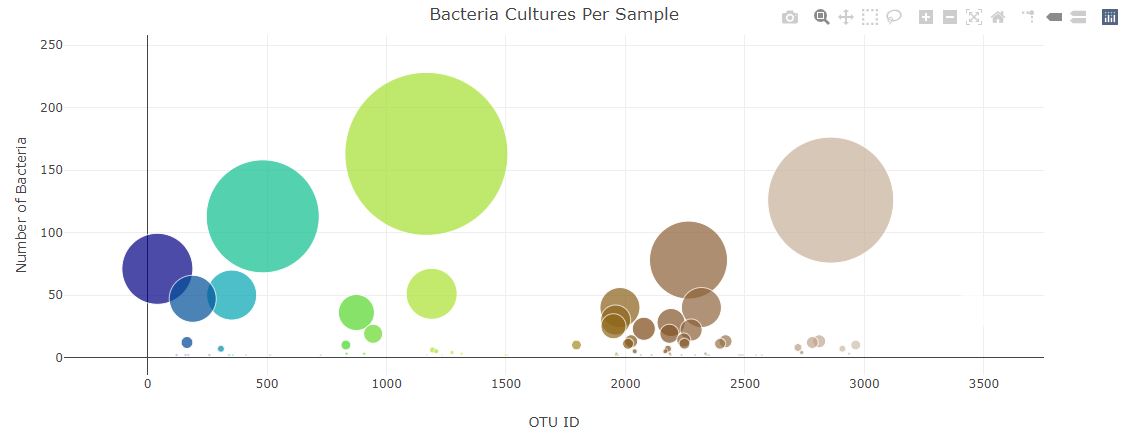
**Instructions**

Complete the following steps:

1. Use the D3 library to read in samples.json from the URL https://static.bc-edx.com/data/dla-1-2/m14/lms/starter/samples.json.
2. Create a 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.

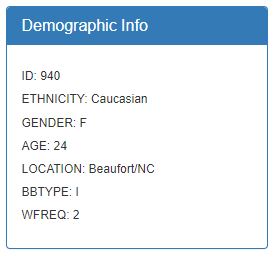


1. Create a bubble chart that displays each sample.
   * Use otu\_ids for the x values.
   * Use sample\_values for the y values.
   * Use sample\_values for the marker size.
   * Use otu\_ids for the marker colors.
   * Use otu\_labels for the text values.

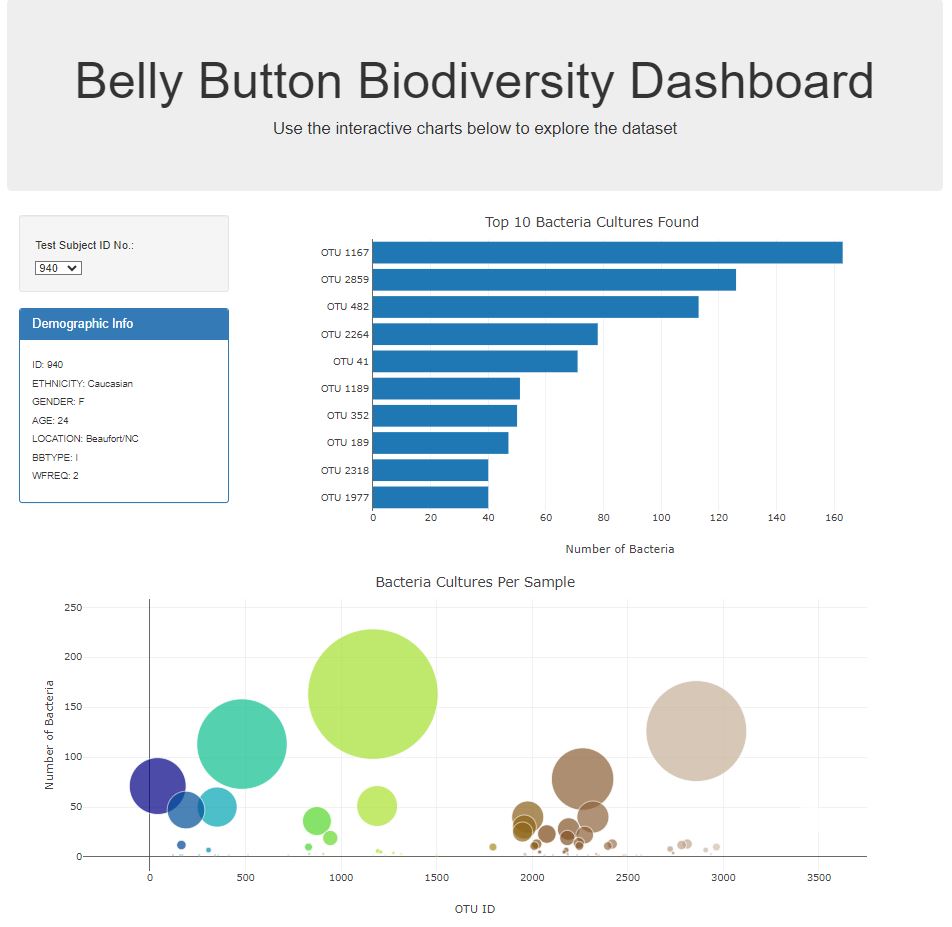


1. Display the sample's metadata, i.e., an individual's demographic information.

* Loop through each key-value pair from the metadata JSON object and create a text string.
* Append an html tag with that text to the #sample-metadata panel.



1. Update all the plots when a new sample is selected. Additionally, you are welcome to create any layout that you would like for your dashboard. An example dashboard is shown as follows:



1. Deploy your app to a free static page hosting service, such as GitHub Pages. Submit the links to your deployment and your GitHub repo. Ensure that your repository has regular commits and a thorough README.md file

**Hints**

* Use console.log inside of your JavaScript code to see what your data looks like at each step.
* Refer to the [Plotly.js documentationLinks to an external site.](https://plot.ly/javascript/) when building the plots.

**Requirements**

**Bar Chart (30 points)**

* Chart initialises without error (10 points)
* Chart updates when a new sample is selected (5 points)
* Chart uses Top 10 sample values as values (5 points)
* Chart uses otu\_ids as the labels (5 points)
* Chart uses otu\_labels as the tooltip (5 points)

**Bubble Chart (40 points)**

* Chart initialises without error (10 points)
* Chart updates when a new sample is selected (5 points)
* Chart uses otu\_ids for the x values (5 points)
* Chart uses otu\_ids for marker colors (5 points)
* Chart uses sample\_values for the y values (5 points)
* Chart uses sample\_values for the marker size (5 points)
* Chart uses otu\_labels for text values (5 points)

**Metadata and Deployment (30 points)**

* Metadata initialises without error (10 points)
* Metadata updates when a new sample is selected (10 points)
* App Successfully Deployed to Github Pages (10 points)