

	Mastery 20 points	Lessons to review
Bar Chart	<ul style="list-style-type: none"> ✓ Chart initializes without error ✓ Chart updates when a new sample is selected <p>-AND-</p> <p>Chart uses all of the following:</p> <ul style="list-style-type: none"> ✓ Top 10 sample values as values ✓ otu_ids as the labels ✓ otu_labels as the tooltip 	<p>JS functions: 14.1.9-10</p> <p>Reading data using D3: 14.3.1-2</p> <p>D3 selection and event listening: 14.3.3-5</p> <p>Dropdown event listening: 14.3.9-10</p> <p>Iterating arrays with for (or forEach/fat arrow): 14.1.5-6</p> <p>Sorting and slicing: 14.2.7-8</p> <p>Plotly charting: 14.1.4 and plotly docs (https://plotly.com/javascript/horizontal-bar-charts/)</p> <p>Note: make use of javascript functions for plotting the charts and filling the metadata. You may also need a function to first initialize and load the page, and another for dropdown event listening (which call the chart plotting/metadata functions)</p>
Bubble Chart	<ul style="list-style-type: none"> ✓ Chart initializes without error ✓ Chart updates when a new sample is selected <p>-AND-</p> <p>Chart uses all of the following:</p> <ul style="list-style-type: none"> ✓ otu_ids for the x values ✓ otu_ids for marker colors ✓ sample_values for the y values ✓ sample_values for the marker size ✓ otu_labels for text values 	<p>All the above, but you are now creating a plotly bubble chart plot instead (https://plotly.com/javascript/bubble-charts/)</p>
Metadata And Deployment	<p>All of the following:</p> <ul style="list-style-type: none"> ✓ Metadata initializes without error ✓ Metadata updates when a new sample is selected ✓ App Successfully Deployed to Github Pages. 	<p>Filtering arrays: 14.2.4-6</p> <p>Review iteration using Object.entries() for getting the key/value pairs of javascript objects (https://masteringjs.io/tutorials/fundamentals/foreach-object)</p> <p>➔ When looking through documentation, it may be helpful to recall javascript terminology (e.g., arrays = lists; objects = dicts)</p> <p>https://stackoverflow.com/questions/20987485/what-are-the-differences-between-python-dictionaries-vs-javascript-objects</p>