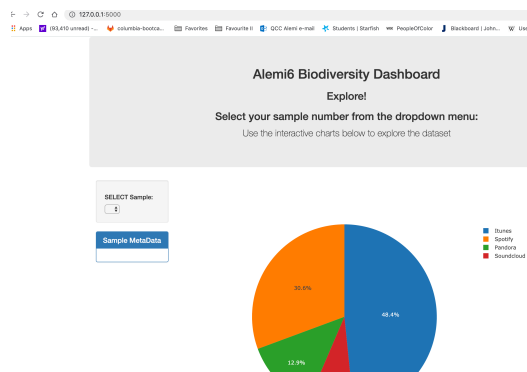


From: Piruz Alemi
To: Lori Harris
Date Feb 20th, 2020
Subject: Read of Json, as input to plotly Charts

Hi Lori. Just a heads up on some difficult questions I am faced with.

1. A reminder, we are using - `python -m http.server`
This opens port 8000 vs. 5000
2. I have opened port 5000, by running `>> Python App4.py`, which has a Flask component and a root that gives me the following:
Its input file is “Bogus!”



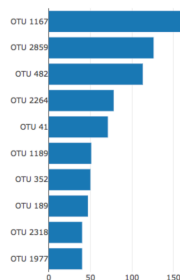
3. Now, I am trying to read a new data file into same program. Its Jsonified input looks like:

```
samples.json 439 KB
1 {
2   "names": ["940", "941", "943", "944", "945", "946", "947", "948", "949", "950", "952", "953", "954", "955", "956", "958", "959", "960", "961", "962", "963",
3   "metadata": [{"id": 940, "ethnicity": "Caucasian", "gender": "F", "age": 24.0, "location": "Beaufort/NC", "bbtype": "I", "wfreq": 2.0}, {"id": 941, "ethnicity":
4   "samples": [{"id": "940", "otu_ids": [1167, 2859, 482, 2264, 41, 1189, 352, 189, 2318, 1977, 3450, 874, 1959, 2191, 1950, 2077, 2275, 944, 2184, 2244, 2024,
5   }
```

They made this input change yesterday, to simplify matters, but I have gone too deep into the Flask part – to back out. So I need to “simply” point get the data points. I suppose via a D3.json command to feed this into my Plotly Pie Chart.

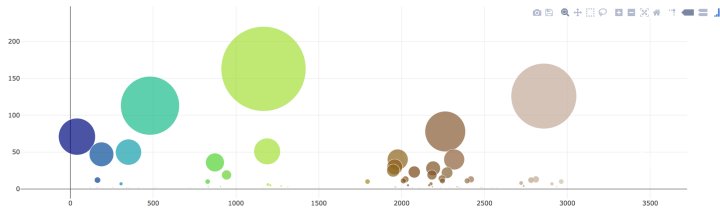
Step 1: Plotly

1. Use the D3 library to read in `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.



3. 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.



In part 2, given say 940 We select the meta data and pop the following dashboard! All in 50 minutes!!! They also just yesterday completely changed the starter codes!!! And that has been really painful, after so much work. So my mind is exhausted. Appreciate if you can jump start me with part 1 and 2.

Beginning with D3 command to get the data...

The starter codes are attached...I will see how far I can advance it before our meeting. But wanted you to know, its going to Be really rough sea this time... We are all over! And so little time.

