

{Use this .ipynb template to write the report, open it with Jupyter-lab}

Lecture Notes/Tutorials by Dr. Bilgic @RIT

Assignment-5: Interactive Data Visualization with Plotly and Dash

- Work on it yourself first, combine a common solution with your team and submit it as instructed.
- This is a team assignment as we set up. Each individual is supposed to get the learning outcomes of the assignments so make sure you learn and do first yourself.

Instruction

Adding `dcc.dropdown()` or `dcc.slider()` or any interactive dcc component to make the Plotly Express chart more interactive with user input is the goal in this assignment.

You will keep expanding your viz design and notebook in Assignment-4.

You will use your notebook and the same data, and add the design of interactive dynamic visualizations made with Plotly Express and Plotly Dash. Then, in a paragraph, you will **narrate the interactive design and your experience**.

1. I assume you practiced all the workshops #6, #7 and #8 on Plotly and Plotly Dash. Review the workshops and visit the Dash Core Components Gallery at <https://dash.plotly.com/dash-core-components>.
2. Open the notebook submitted from Assignment-4, make a copy, and **design any three interactive charts using Plotly Express (px)**. Feel free to make more vizs.
3. Then, use the same px's charts and apply **the plotly dash interactive component (just one)** to each chart like dropdown or slider or else. Make sure I can replicate when I open the file so please give instruction needed: inline, port?

4. Make **one screen shot from each interactive dash chart** (so four shots) and add to the submisison.
5. Be patient with the issues you may obtain. Try to figure it out. Write on the Slack.
6. Observe the capacities of interactive features. In the notebook, narrate what you have designed and your experience in a paragraph using Notebook's Markdown.
7. Submit both the pdf and .ipynb. AND the four screenshots as attacehment on myCourses (this is not discussion post task).

Bonus when used both dropdown, slider, dcc.Markdown(), more html components, and published in web (so just provide the link at the bottom of the notebook AND mention it in the comment section on myCourses so I don't skip it.

In []:

In []:

In []:

In []:

In []:

In []:

In []: