

CSCE 5320 Scientific Data Visualization

Bonus ICE

1. (50 points)

You can use the csv dataset from ICE-5 or create another dataset which contains quantitative value.

- Create a 3D Bar Chart with d3.js.
- Create interactive bar chart based on categorical data.
- Analyze the chart and provide explanation.
- Explain the difference between 2D and 3D bar graphs.
- Submit the VizHub link of your code.

<https://blog.risingstack.com/d3-js-tutorial-bar-charts-with-javascript/>

2. (50 points)

Download the Iris data or use any dataset and create a 3D scatter plot. Submit the VizHub link of your code.

- Create a 3D scatter plot with d3.js.
- Analyze the chart and provide explanation.
- Explain the difference between 2D and 3D scatter plots.
- Submit the VizHub link of your code.

<https://plotly.com/javascript/3d-scatter-plots/>

<https://bl.ocks.org/Niekas/613d43d39372f99ae2dcea14f0f90617>

ICE Submission Guidelines

ICE Submission is individual.

The similarity score for your document should be less than 15%.

Submit the documentation (.pdf/.doc). It should include the screenshots of your code and visual results/graphs with detailed explanation for each step.