

Data Visualisation Lab 2



Spring 2024

Useful Tutorials

- https://github.com/UBC-InfoVis/447-materials/tree/22Jan/tutorials/2_D3_Tutorial_Making_Chart
- https://github.com/UBC-InfoVis/447-materials/tree/22Jan/tutorials/4_D3_Tutorial_Basic_Interactivity
- https://github.com/UBC-InfoVis/447-materials/tree/main/tutorials/1_D3_Tutorial_Intro
- <https://observablehq.com/@d3/gallery>
-

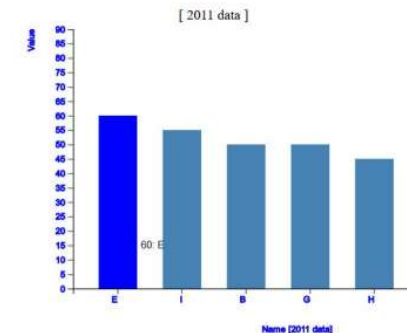
Q1

Bar chart :

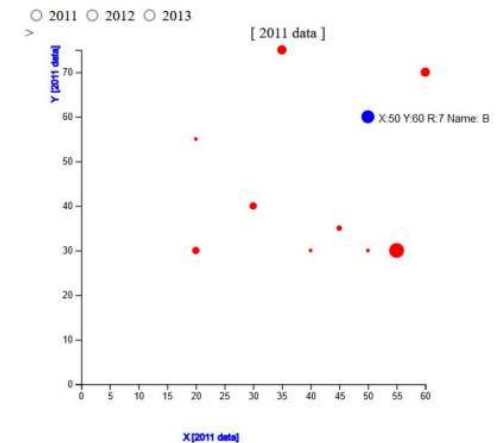
Data: yearwise.csv (2011 data)

- Combine the scatter and bar charts from the previous lab and add linking between them. Each hover should highlight the bar and the corresponding point on the scatter chart .
- Add tooltips that show the values for both charts simultaneously on hover.

● 2011 ○ 2012 ○ 2013



Expected Output



Expected Output

Q2

Scatter chart :

Data: yearwise.csv (2011 data)

To the scatter plot that you made for lab 1 , make the following changes

- Add tooltips that show the x , y, and r values on hover.
- Implement zooming and brushing into the chart
- Implement color saturation for the points based on the value of R – ie, the point with the maximum value of r should have the darkest color, and the one with the least r should be the lightest
- Implement a filter that allows users to select a value of r using a slider, and show only those points for which the value of r is greater than that selected by the user.

Resources

- <https://github.com/d3/d3/wiki>
- <https://observablehq.com/@d3/gallery>
- <https://d3-graph-gallery.com>
- <https://gist.github.com/mbostock/3885705>