Data Science and Data Visualization

Lab 5 –D3.js – Interaction

Reference:

D3: https://d3js.org/

D3 tutorials: https://github.com/d3/d3/wiki/Tutorials

HTML events: https://developer.mozilla.org/en-US/docs/Web/Events

Samples in the Interactive Data Visualization for the Web book:
https://github.com/scotthmurray/d3-book/tree/master/chapter_10

Instructions

- Use ONLY D3 library
- Read chapter 10 of the Interactive Data Visualization for the Web
- Submit your work (all html, js, css files) to the blackboard assignment for this lab

Details

Info

Create an HTML web page with the title "Lab 5". It contains the following text:

- Your name
- Your student ID
- The course tile "Data science and data visualization"
- The lab title "Lab 5 –D3.js - Interaction"
- The text "This is all my own work. I did not copy the code from any other source"

COVID data on WorldMap

Create a scatterplot for covid data on 05/04/2020 from
https://raw.githubusercontent.com/CSSEGISandData/COVID-
19/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_confirmed_global.csv

- Encode the latitude and the longitude of a country/region by x and y value
- The chart must have an axis, labels, and ticks.
- Use a circle with opacity to represent the number of confirmed cases in each country/region
- DO NOT show any label
- Use tooltip to show information related to each country/region on mouseover event of the representing circle

Option task: Using the brush feature in D3 to select and highlight items: https://www.d3-graph-gallery.com/graph/interactivity_brush.html