# **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 axis, label, ticks.
* Use 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 brush in D3 to select and highlight items: <https://www.d3-graph-gallery.com/graph/interactivity_brush.html>