# **Data Science and Data Visualization**

# **Lab 6 –D3.js –** **Line and stacked area chart**

Reference:

D3: <https://d3js.org/>

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

Instructions

* Use ONLY D3 library
* Read chapter 11 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 6”. It contains the following text:

* Your name
* Your student ID
* The course tile “Data science and data visualization”
* The lab title “Lab 6 –D3.js – Line and stacked area chart”
* The text “This is all my own work. I did not copy the code from any other source”

**COVID data on WorldMap**

Create a line/multiple-lines charts for COVID data on of Vietnam, US, France and Italy from April 1st to May 1st of 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>

* Transpose the data to the format (in Excel or any other editor): Country, Date, Number of confirmed cases
* Use d3.nest to group data by country
* Use line chart to show number of confirmed cases of each country
* Add Interactive feature: show value on all lines in chart on mouse over event

(<https://www.d3-graph-gallery.com/graph/line_cursor.html>)

* Add legends for the chart
* Add filter feature on mouse over event of items in the legend of the chart

(<https://www.d3-graph-gallery.com/graph/bubble_template.html>)