Create a **svg_lab.html** and practice all the following svgs and d3 usage by implementing the blue colored codes.

Lab4 submission:

- 1. a working **svg_lab.html** with your **name** and **email** on it.
- 2. your answers to 1.2 to 1.4

1. SVG (Scalable Vector Graphics)

```
<BODY>
\langle svg \rangle
 x1="50" y1="50" x2="100" y2="100" stroke-width="10" stroke="red" />
 x1="100" y1="100" x2="200" y2="0" stroke-width="10" stroke="black" />
</svg>
...
</BODY>
<svg width="200" height="200">
 <circle cx="50" cy="50" r="40" stroke="black" stroke-width="4" fill="yellow" />
</svg>
*More shapes and https://www.w3schools.com/graphics/svg_intro.asp
1.1 How do you draw a rectangle with filling color as yellow? (Hint:
https://www.w3schools.com/graphics/svg_intro.asp)
<rect width="100" height="20" fill="yellow" stroke="black" y="120" ></rect>
1.2 How do you draw 3 rectangles align horizontally but not overlapping each other, filling
colors are respectively vellow orange red?
1.3 How do you draw 3 circles align vertically but not overlapping each other, filling colors
are respectively yellow orange red?
<text x="250" y ="320" fill="black">tutorial 1.3</text>
1.4 How do you duplicate the graphics in 1.2 at the coordinates (500,0)? (approximately the
```

middle of the screen) *Hint: group the svg shapes in* <*g*> <*/g*> *and transform attribute* (ref: https://www.tutorialspoint.com/d3js/d3js_svg_transformation.htm)

1.5 Include d3.js to the page, and change the background color to a color of your choice.

Reference: https://github.com/d3/d3-selection

* Practice now in the lab and continue doing so at home, draw a smiley face in SVG (submit it via Camino with assign#2 for 5 point bonus)



*Color reference http://www.w3schools.com/cssref/css_colors_legal.asp

^{*}More other d3 tutorial: https://github.com/mbostock/d3/wiki/Tutorials