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
3. **SVG (Scalable Vector Graphics)**

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| --- |
| <BODY>  …  <svg >  <line x1="50" y1="50" x2="100" y2="100" stroke-width="10" stroke="red" />  <line 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 yellow 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.  …  <head>  <script src="https://d3js.org/d3.v5.min.js"></script>  </head>  <body>  <script type="text/javascript">  **d3.select("body").style**("background-color","#dbf6f3");  </script>  </body>  …  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)  Macintosh HD:Users:Sharonpova:Desktop:Screen Shot 2013-09-17 at 11.39.34 PM.png |

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

\*More other d3 tutorial: <https://github.com/mbostock/d3/wiki/Tutorials>