d3.js Exercise 3

Note: Both tasks required you to create click and hover interactions for two separate grid structures.

Task 1:

- Create a 10 X 10 grid of square cells on a 300px by 300px <svg> </svg> element.
- Each cell's width, height and fill color is listed below:

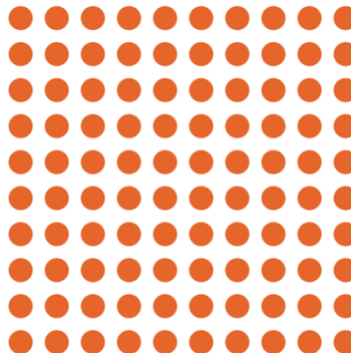.attr('height', 30)
.attr('width', 30)
.style('fill', '#4dbeff')

- Create a [mouseover]() event that results in the affected cell's fill color to quickly (100 ms) change to #ffffff (white):

d3.select(this)
    .transition()
     .duration(100)
     .style('fill', 'white')

- Create a [mouseout]() event that results in the affected cell's fill color to change back to its orignial color in 2000 ms.

Task 2:

- Create a 10 X 10 grid of circles on a <svg> </svg> element of 300px by 300px. Each circle has a radius of 10px and a fill color of #ff5900 . The resulting grid should look similar to the following image:

- Upon clicking each cell, the fill color of the cells that share the **same row or column** as the clicked cell changes quickly to blue (#4dbeff), then fade slowly back to the original color. hint:

```
d3.select(this)
   .transition()
   .duration(100)
   .style('fill', '#4dbeff')
   .transition()
   .duration(1000)
   .style('fill', '#ff5900')
```

Submission Notes:

This is an individual exercise, so all students need to do it individual rather than in group setting. Please upload you code and any description in a **zip** folder (please use only .zip extension).

Deadline:
Friday, April 12, 2024 (23:59)
Marks: 10