

1. How can D3 access and change the DOM? What do select and selectAll do?

In a script, like getElementById(), D3.select('p') selects the first paragraph element in the dom. SelectAll is used to find all of them.

2. What are the d and i in function(d){} and function(d, i){}?

d stands for data, i for index.

3. Write sample lines of JavaScript to add a div element with class "barChart1" and to add an svg element with class "barChart2" with square dimensions.

```
D3.select(body).append("div").attr("class","barchart1");  
Var dim = 3;  
D3.select(body).append("g").attr("class","barchart2").attr("width",dim).attr("height",dim);
```

4. Describe append, update, enter, and exit at a high level. What does "selectAll + data + enter + append" refer to?

Selects the number of items, and creates new ones if the data requires to do so.

5. What are the main differences between drawing a bar chart with HTML and SVG?

HTML puts squares next/in to each other, SVG gives the possibilities to add items at the same place and more.

6. In drawing the simple bar chart with D3 and SVG, what elements were appended, and what parts of the graph did these elements correspond to?

X (data index)

Y (0)

Width (data value)

Height (style choice)