

Questions week 4 – Laura Veerkamp, 10361561

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

By selecting DOM elements by tag (id) or class, using select or selectAll.

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

Input data and the data 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");  
d3.select("body").append("svg").attr("class", "barChart2").attr("width", 50).attr("height", 50);
```

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

append: new, incoming tag

update: persistent elements

enter: incoming element

exit: outgoing element

selectAll + data + enter + append: selects specified tag, enters elements of data that are not in tag yet, add to tag

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

SVG has a better resolution

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?

append("g")	g-tag to translate bar to the right
append("rect")	rect-tag for bar chart rectangle
append("text")	text for bar