Questions WK3:

Name: Bob Borsboom Studentnumber: 10802975

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

D3's selections are just nested arrays with extra methods on them; if you have .select() a single DOM element

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

I is het aantal datapunten dat je hebt. Bij mij dus van 1-11 D is de waarde van deze datapunten

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

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

A common pattern is to break the initial selection into three parts: the updating nodes to modify, the entering nodes to add, and the exiting nodes to remove.

Enter / exit: you can also add or remove elements to correspond to data.

SelectAII: To set the class and color style of all paragraph elements in the current document:

selection.append: returns a new selection containing the new elements. This conveniently allows you to chain operations into the new elements.

Enter: you can create new nodes for incoming data and remove outgoing nodes that are no longer needed.

Exit: you can create new nodes for incoming data and remove outgoing nodes that are no longer needed.

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

- SVG graphics do NOT lose any quality if they are zoomed or resized
- SVG images can be created and edited with any text editor
- SVG images can be searched, indexed, scripted, and compressed
- SVG images are scalable
- SVG images can be printed with high quality at any resolution
- SVG images are zoomable (and the image can be zoomed without degradation)
- SVG is an open standard
- SVG files are pure XML
- 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?

Elements that were appended: "g" elements.

These elements respond to the bars in the bar chart.