Questions week 4

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

With the use of select and selectAll. These functions can select tags inside the DOM

What are the <u>d</u> and <u>i</u> in <u>function(d)</u>{} and <u>function(d, i)</u>{}?

The arguments of the function. d is bound data and i is the index.

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.

d3.select("body").append("div")..attr("class", "barChart1")

d3.select("body").append("svg")..attr("class", "barChart2").attr("width", 50).attr("height", 50)

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

enter - incoming elements, entering the stage.

update - persistent elements, staying on stage.

exit - outgoing elements, exiting the stage.

Append – incommig tag, entering the stage.

selectAll + data + enter + append – makes tags based on difference in data and selected tags

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

Greater visual expressions in SVG

<u>In drawing the simple bar chart with D3 and SVG, what elements were appended, and what parts</u> of the graph did these elements correspond to?

append("g") - makes a 'g'-tag for translating the bar to right position

append("rect") - makes a 'rect'-tag for a bar chart rectangle

append("text") - text for the bar