Questions Data Processing, Javascript Caroline Azeau, 10334858

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

Oplossing. D3 can access and change the DOM by selecting a specific part of the DOM and then add or change something in that container. **Select** selects the first item found with the given type in the selecter container, **selectAll** selects all of the items with the given type in the given container. \Box

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

Oplossing. d is the given element in the data, i is the order of the given element. \Box

Opgave 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.

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

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

- Oplossing. APPEND: The append method in d3 creates elements in the DOM. It takes as an argument the type of element that needs to be created.
 - UPDATE: The update method updates old elements as needed.
 - ENTER: The enter method can create new elements. It prepares one new element, the elements are not created yet at this stage, but they will with the next command.
 - EXIT: The exit method selects elements so that they can be manipulated.

Opgave 5. What are the main differences between drawing a bar chart with HTML and SVG?
Oplossing. With HTML you handle with one element at a time. With SVG and D3 you instead handle groups of related elements called selections. \Box
Opgave 6. In drawing the simple bar chart with D3 and SVG, what elements were appended, and to what parts of the graph did these elements correspond?
Oplossing. Div elements, and they correspond with the bars of the bar chart. \Box