

Vragen week 3

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

Before changing or using elements from the DOM you must select those elements. You can either `select(this)`, to select a specific paragraph or such, or use `selectAll(this)` to select all the data in 'this'.

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

The `d` is used for the current data element and `i` for the index of the current data element.

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").class("barChart1")
```

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

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

Append: creates a new element

Update: updates the element

Enter; adding new data to element

Exit: removes data from element

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

Html is pixel based, SVG vector based

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?

G and rect were per bar, svg to all bars and text is to axis.