

Questions D3

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

D3 acces and change the DOM by selecting an element by classes or ids.

With select you can change the properties of one element at a time. When you use selectAll you change the properties of all that elements at a time.

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

d nothing but a convention. It is standard fare in d3 code because that's the writing style of Mike Bostock, the author of the framework and of many of its examples.

i represents the order of the element in the selection.

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.

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

selectAll selecteert alle elementen in plaats van één element.

data representeert de data waarvan e een chart wilt maken.

The *enter* selection which represents new data for which there was no existing element. We instantiate these missing elements by appending to the enter selection.

append voegt een bepaald attribuut toe aan het element dat is geselecteerd.

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

Met SVG is het mogelijk om het tekenen van de bar chart te automatiseren, met HTML moet je handmatig de waardes invullen.

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?

You append rectangles which represents the bars of the chart.