Questions D3, Homework week 6

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

D3 can access and change the DOM by using select or selectAll, and then selecting the body of a html page for instance, to alter or change the DOM. Select only selects the first concept given, and selectAll selects all the concepts (for instance selectAll("p"), selects all 's in an html page.

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

The d stands for the input value that is given and the I responds to the index of the data.

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.

Var body = d3.select ("body")

Var div = body.append("div").attr("class, "barChart1")

Var svg = body.append("svg").attr("class", "barChart2").attr("width", 100).attr("height", 100

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

Append, is that something is added to which it appends to

Update, is that an update is conducted when elements might have been changed/deleted.

Enter, is when an entirely new element is being created

Exit, is when elements are removed.

"selectAll + data + enter + append", refers to that for all data, something entirely new is added and something is appended to that.

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

HTML can deal mainly with rectangular shapes, but supports flow layout and text wrapping. SVG supports various drawing primitives, but is always positioned relative to the top-left corner.

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?

The svg part was appended, so was the class called barChart2. And the width and the height would correspond to how long and wide the barchart would be.