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

*select* selects the first element of a certain type in the html

*selectAll* selects all alements of a certain type

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

*d* is an input variable

*i* is a counter, similar to the *i*  in for-loops in that it starts at 0 and increments after every iteration of the function

**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").attr("class", "barChart1")

d3.select("body").append("svg").attr("width", "200").attr("height", "200").attr("class", "barChart2")

// every attribute needs its own attr function apparently

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

*append*: create a new element and write it in the html after all the other elements (in the container)

*update*: replaces old values of elements with new values ??? (couldn’t find it in the tutorial)

*enter*: prepares elements from data which did not find a place, so append will create new elements for them

*exit*: if there are leftover elements after all data has found a place, remove those elements

*“selectAll + data + enter + append”* grabs all elements of a certain type, then grabs the specified data. Enter prepares the data to be appended if there aren’t enough elements for them. Append ultimately puts them in the html.

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

SVG is scalable

**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?**

???