

## QUIZ

What does your code need to do in order to access the datum inside each element in the chain?

Create an anonymous function that takes in at least one parameter, the datum will always be assigned to the first parameter.

Create a function that takes in at least one parameter, the datum will always be assigned to the first parameter. It is standard to name that parameter `d` but not required.



You got it!

Access a `d` variable that d3 creates on its own, there's no need to bind it to a parameter yourself.

Create an anonymous function that has parameter by the name of `d`.

If there are already two div elements inside the `#visualization` element in the DOM, how many elements will be inserted into the DOM?

```
const data = [8,2,9,29]
d3.select('#visualization')
  .selectAll('div')
  .data(data)
  .enter()
  .append("div");
```

Four div elements will be added because there are four elements in the `data` array.

Only two div elements will be added.



Since two div elements exist, the `.enter()` method would calculate the difference and the `.append()` method would only insert two elements.

Assuming there are no div elements inside `#viz`, how many elements would the following code append as children of `#viz`?

```
const dataset = [13.2, 232.3, 67.3]
d3.select("#viz")
  .data(dataset)
  .append("div");
```

No elements will be inserted, you need to use the `.enter()` method if you want to append elements.

Three elements will be inserted since there are three items in the `dataset` array.

Only one element will be inserted because all of the commands in the chain only get executed once after the `.select()` method.



You got it!

What will be displayed in the third paragraph in the DOM based on the following code?

```
const data = ["potato", "apple", "avocado", "corn", "pumpkin"]

d3.select("#viz")
  .selectAll("p")
  .data(data)
  .enter()
  .append("p")
  .text(function(d){return d;});
```

"pumpkin"

"avocado"



This is the third element in the array, and data gets bound sequentially.

What exactly is the data bound to in D3 when you use `.data()` on a selection?

The nodes in the selection.

The DOM elements AND the selection nodes.

The dataset passed into the `.data()` method.

The DOM elements in the selection as a `_data_` attribute.



You got it!

True or False: The selection is returned as an array.

True.

False.



You got it!

Which function adds new elements to the DOM?

`.data()`

`.selectAll()`

`.append()`



Correct, this method appends the actual elements on the DOM.

`.enter()`