Basic JavaScript - Iterate with JavaScript Do...While Loops

You can run the same code multiple times by using a loop.

The next type of loop you will learn is called a "do...while" loop because it first will "do" one pass of the code inside the loop no matter what, and then it runs "while" a specified condition is true and stops once that condition is no longer true. Let's look at an example.

var ourArray = [];  
var i = 0;  
do {  
ourArray.push(i);  
i++;  
} while (i < 5);

This behaves just as you would expect with any other type of loop, and the resulting array will look like [0, 1, 2, 3, 4]. However, what makes the do...whiledifferent from other loops is how it behaves when the condition fails on the first check. Let's see this in action.

Here is a regular while loop that will run the code in the loop as long as i < 5.

var ourArray = [];   
var i = 5;  
while (i < 5) {  
ourArray.push(i);  
i++;  
}

Notice that we initialize the value of ito be 5. When we execute the next line, we notice that iis not less than 5. So we do not execute the code inside the loop. The result is that ourArraywill end up with nothing added to it, so it will still look like this []when all the code in the example above finishes running.

Now, take a look at a do...whileloop.

var ourArray = [];   
var i = 5;  
do {  
ourArray.push(i);  
i++;  
} while (i < 5);

In this case, we initialize the value of ias 5, just like we did with the while loop. When we get to the next line, there is no check for the value of i, so we go to the code inside the curly braces and execute it. We will add one element to the array and increment ibefore we get to the condition check. Then, when we get to checking if i < 5see that iis now 6, which fails the conditional check. So we exit the loop and are done. At the end of the above example, the value of ourArrayis [5].

Essentially, a do...whileloop ensures that the code inside the loop will run at least once.

Let's try getting a do...whileloop to work by pushing values to an array.

Change the whileloop in the code to a do...whileloop so that the loop will push the number 10 to myArray, and iwill be equal to 11when your code finishes running.