Array Iteration

Objectives

- Use a for loop to iterate over an array
- Use forEach to iterate over an array
- Compare and contrast for loops and forEach

For Loop

To loop over an array using a for loop, we need to make use of the array's *length* property

```
var colors = ["red", "orange", "yellow", "green"];
for(var i = 0; i < colors.length; i++) {
  console.log(colors[i]);
}</pre>
```

ForEach

JavaScript provides an easy built-in way of iterating over an array: ForEach

arr.forEach(someFunction)

```
var colors = ["red", "orange", "yellow", "green"];
colors.forEach(function(color){
//color is a placeholder, call it whatever you want console.log(color);
});
```

For vs. For Each

The following 2 code snippets do the same thing:

```
//with a for loop
var colors = ["red", "orange", "yellow", "green"];
for(var i = 0; i < colors.length; i++) {</pre>
  console.log(colors[i]);
//using forEach
var colors = ["red", "orange", "yellow", "green"];
colors.forEach(function(color){
  console.log(color);
});
```

Exercise

What does the following code print out?

```
var numbers = [1,2,3,4,5,6,7,8,9,10];
var colors = ["red", "orange", "yellow", "green"];
numbers.forEach(function(color){
  if(color% 3 === 0) {
    console.log(color);
  }
});
```