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The forEach() loop



Arrays have a set of special methods to help you iterate over and perform operations on collections of data. You can view the MDN Documentation list of Array methods [here](#), but a couple big ones to know are the `forEach()` and `map()` methods.

The `forEach()` method gives you an alternative way to iterate over an array, and manipulate each element in the array with an inline function expression.

```
var donuts = ["jelly donut", "chocolate donut", "glazed donut"];

donuts.forEach(function(donut) {
  donut += " hole";
  donut = donut.toUpperCase();
  console.log(donut);
});
```

Prints:

```
JELLY DONUT HOLE
CHOCOLATE DONUT HOLE
GLAZED DONUT HOLE
```

Notice that the `forEach()` method iterates over the array without the need of an explicitly defined index. In the example above, `donut` corresponds to the element in the array itself. This is different from a `for` or `while` loop where an index is used to access each element in the array.

```
for (var i = 0; i < donuts.length; i++) {
  donuts[i] += " hole";
  donuts[i] = donuts[i].toUpperCase();
  console.log(donuts[i]);
}
```

Parameters

The function that you pass to the `forEach()` method can take up to three parameters. In the video, these are called `element`, `index`, and `array`, but you can call them whatever you like.

The `forEach()` method will call this function once *for each* element in the array (hence the name `forEach()`). Each time, it will call the function with different arguments. The `element` parameter will get the *value* of the array element. The `index` parameter will get the *index* of the element (starting with zero). The `array` parameter will get a reference to the whole array, which is handy if you want to modify the elements.

Here's another example:

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Lesson 6:
Arrays

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The forEach Loop

```
console.log("Word " + num + " in " + all.toString() + " is " + word);
});
```

Prints:

Word 0 in cat,in,hats is cat

Word 1 in cat,in,hats is in

Word 2 in cat,in,hats is hat

On the next page, you'll do a quiz that uses the `forEach()` method to modify an array.

NEXT

Mentorship

Get support and stay on track