Lesson | Thursday

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/ Array Mapping

Text

Cheat sheet

Array.prototype.map()

This is perhaps the most powerful looping method in JavaScript because it loops through a collection *and* also transforms it.

Here's an example:

```
const array = [0,1,2,3,4,5];
const doubledArray = array.map(function(element) {
   return element * 2;
});
doubledArray;
(6) [1, 2, 4, 6, 8, 10]
```

- Like Array.prototype.forEach(), Array.prototype.map() takes a function as an argument, which we call a callback function.
- With Array.prototype.map(), we must use a return statement (unlike Array.prototype.forEach()).

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 Each time we iterate with Array.prototype.map(), we are specifying how the element should be transformed. In the example above, we specify that we should return element *
 2.

Array.prototype.map() returns a transformed array. We can't
use it to return another data type such as a number or string.

Documentation on MDN

For more information, check out the Mozilla documentation on Array.prototype.map(). (https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/map)

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