

JS Part 2

# JavaScript

# Array

# methods

(map, filter, reduce, forEach)



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# map

## ✓ Syntax

```
let newArray =  
array.map(callback(currentValue[,  
index[, array]])[, thisArg])
```

Transforms each element in the array and returns a new array.

## ✓ Example

```
const numbers = [1, 2, 3, 4];  
const doubled = numbers.map(num => num  
* 2);  
console.log(doubled); // [2, 4, 6, 8]
```

# filter

## ✓ Syntax

```
let newArray =  
array.filter(callback(element[, index[,  
array]])[, thisArg])
```

Filters elements in the array based on a test and returns a new array.

## ✓ Example

```
const numbers = [1, 2, 3, 4];  
const evens = numbers.filter(num => num  
% 2 === 0);  
console.log(evens); // [2, 4]
```

# reduce

## ✓ Syntax

```
array.reduce(callback(accumulator,  
  currentValue[, index[, array]][,  
  initialValue])
```

Reduces the array to a single value based on a reducer function.

## ✓ Example

```
const numbers = [1, 2, 3, 4];  
const sum = numbers.reduce((acc, num)  
=> acc + num, 0);  
console.log(sum); // 10
```

# forEach

## ✓ Syntax

```
array.forEach(callback(currentValue[,  
index[, array]][, thisArg])
```

Executes a function on each element but does not return a new array.

## ✓ Example

```
const numbers = [1, 2, 3, 4];  
numbers.forEach(num => console.log(num  
* 2));  
// 2  
// 4  
// 6  
// 8
```



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