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JavaScript Array Iteration

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```

The Source of this article

```
JavaScript Array Iteration
(Array iteration methods)
```

Array.forEach()

```
forEach() ( , a callback function)
```

Example

```
let txt = "";
let numbers = [45, 4, 9, 16, 25];
numbers.forEach(myFunction);
document.getElementById("demo").innerHTML = txt;

function myFunction(value, index, array) {
   txt = txt + value + "\, " // 45, 4, 9, 16, 25,
}
```

```
3 (arguments) 가
```

- (The item value)
- (The item index)
- (The array itself)

(value parameter)

```
let txt = "";
let numbers = [45, 4, 9, 16, 25];
```

```
numbers.forEach(myFunction);
document.getElementById("demo").innerHTML = txt;

function myFunction(value) {
   txt = txt + value + "\, " // 45, 4, 9, 16, 25,
}
```

Array.map()

```
map()
map()
map()
2
```

Example

```
let numbers1 = [45, 4, 9, 16, 25];
let numbers2 = numbers1.map(myFunction);

document.getElementById("demo").innerHTML = numbers2;
// 90,8,18,32,50
function myFunction(value, index, array) {
   return value * 2;
}
console.log(numbers1); // [45, 4, 9, 16, 25]
console.log(numbers2); // [90, 8, 18, 32, 50]
```

```
3 가 .

(The item value)
(The item index)
(The array itself)
가 value , index array
```

```
let numbers1 = [45, 4, 9, 16, 25];
let numbers2 = numbers1.map(myFunction);

document.getElementById("demo").innerHTML = numbers2;
// 90,8,18,32,50
```

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```
function myFunction(value) {
   return value * 2;
}
console.log(numbers1); // [45, 4, 9, 16, 25]
console.log(numbers2); // [90, 8, 18, 32, 50]
```

Array.filter()

filter()

18

Example

```
let numbers = [45, 4, 9, 16, 25];
let over18 = numbers.filter(myFunction);

document.getElementById("demo").innerHTML = over18;
// 45,25
function myFunction(value, index, array) {
   return value > 18;
}

console.log(numbers); // [45, 4, 9, 16, 25]
console.log(over18); // [45, 25]
```

3 가

- (The item value)
- (The item index)
- (The array itself)

```
let numbers = [45, 4, 9, 16, 25];
let over18 = numbers.filter(myFunction);

document.getElementById("demo").innerHTML = over18;
// 45,25
function myFunction(value) {
   return value > 18;
}

console.log(numbers); // [45, 4, 9, 16, 25]
```

```
console.log(over18); // [45, 25]
```

Array.reduce()

```
reduce() , ( ) .
reduce() , reduceRight()
reduce() .
```

Example

```
let numbers = [45, 4, 9, 16, 25];
let sum = numbers.reduce(myFunction);

document.getElementById("demo").innerHTML = "The sum is " + sum; // The sum is 99

function myFunction(total, value, index, array) {
   return total + value;
}

console.log(numbers); // [45, 4, 9, 16, 25]
console.log(sum); // 99
```

```
4 .

( / ) ( The total(the initial value / previously returned value) )
( The item value )
( The item index )
( The array itself )
```

```
let numbers = [45, 4, 9, 16, 25];
let sum = numbers.reduce(myFunction);

document.getElementById("demo").innerHTML = "The sum is " + sum; // The
sum is 99

function myFunction(total, value) {
```

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```
return total + value;
}

console.log(numbers); // [45, 4, 9, 16, 25]
console.log(sum); // 99
```

```
reduce() (initial value)
```

Example

```
let numbers = [45, 4, 9, 16, 25];
let sum = numbers.reduce(myFunction, 100);

document.getElementById("demo").innerHTML = "The sum is " + sum; // The sum is 199

function myFunction(total, value) {
   return total + value;
}

console.log(numbers); // [45, 4, 9, 16, 25]
console.log(sum); // 199
```

Array.reduceRight()

```
let numbers = [45, 4, 9, 16, 25];
let sum = numbers.reduce(myFunction);

document.getElementById("demo").innerHTML = "The sum is " + sum; // The
sum is 99

function myFunction(total, value, index, array) {
   return total + value;
}

console.log(numbers); // [45, 4, 9, 16, 25]
```

```
console.log(sum); // 99
```

4

• (/)

•

•

•

Example

```
let numbers = [45, 4, 9, 16, 25];
let sum = numbers.reduce(myFunction);

document.getElementById("demo").innerHTML = "The sum is " + sum; // The sum is 99

function myFunction(total, value) {
   return total + value;
}

console.log(numbers); // [45, 4, 9, 16, 25]
console.log(sum); // 99
```

Array.every()

every()

18

```
let numbers = [45, 4, 9, 16, 25];
let all0ver18 = numbers.every(myFunction);

document.getElementById("demo").innerHTML = "All over 18 is " +
all0ver18;
// All over 18 is false

function myFunction(value, index, array) {
   return value > 18;
}
console.log(numbers); // [45, 4, 9, 16, 25]
```

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```
console.log(all0ver18); // false
```

3 가

•

•

가 ()

Example

```
let numbers = [45, 4, 9, 16, 25];
let allOver18 = numbers.every(myFunction);

document.getElementById("demo").innerHTML = "All over 18 is " +
allOver18;
// All over 18 is false

function myFunction(value) {
   return value > 18;
}
console.log(numbers); // [45, 4, 9, 16, 25]
console.log(allOver18); // false
```

Array.some()

some()

18

```
let numbers = [45, 4, 9, 16, 25];
let someOver18 = numbers.some(myFunction);

document.getElementById("demo").innerHTML = "Some over 18 is " +
someOver18;

// Some over 18 is true

function myFunction(value, index, array) {
   return value > 18;
}
console.log(numbers); // [45, 4, 9, 16, 25]
console.log(someOver18); // true
```

3

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Array.some() Internet Explorer 8

Array.indexOf()

index0f()

Note: 0 , 1

Example

"Apple"

```
let fruits = ["Apple", "Orange", "Apple", "Mango"];
let a = fruits.indexOf("Apple");
document.getElementById("demo").innerHTML = "Apple is found in position
" + a;
    // Apple is found in position 0
    console.log(fruits); // ["Apple", "Orange", "Apple", "Mango"]
    console.log(a); // 0
```

Syntax

```
array.indexOf(item, start)
```

item	
start	

Array.indexOf() -1

Array.lastIndexOf()

Array.lastIndexOf() Array.indexOf()

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Example

"Apple"

, Javascript, Array, Iteration, Methods

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