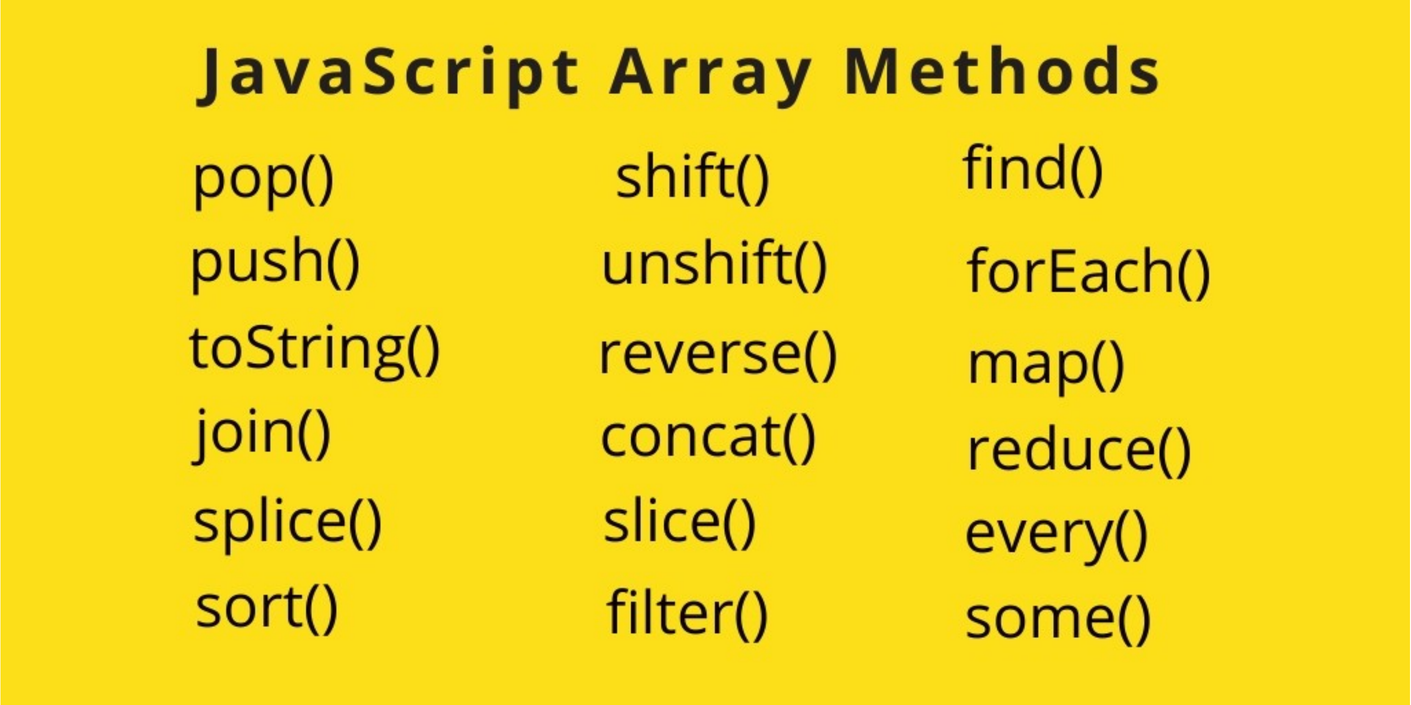

JavaScript Array Methods

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# JavaScript: Array Methods

December 7, 2021 | By Admin | Leave a Comment

Array methods in JavaScript; In this tutorial, you will learn JavaScript Array Methods including examples.

Sometimes, you work with Javascript arrays, these methods help you to manipulate arrays.

## JavaScript Array Methods

The following array methods in javascript:

- Array pop() Method
- Array push() Method
- Array toString() Method
- Array join() Method
- Array splice() Method
- Array sort() Method
- Array shift() Method
- Array unshift() Method
- Array reverse() Method
- Array concat() Method
- Array slice() Method
- Array filter() Method
- Array find() Method
- Array forEach() Method
- Array map() Method
- Array reduce() Method
- Array some() Method
- Array every() Method

- FindIndex() Array Method
- Array Include() Method
- IndexOf() Array Method
- Array lastIndexOf() Method
- JavaScript Array isArray() Method

## 1: Array pop() Method

The javascript pop() method is used to remove the last element from an array.

The method returns the value of the removed item.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.pop();
```

Result of the above example is:

```
Output
 // New array:  PHP, Python, Java
```

## 2: Array push() Method

The js push() method is used to add a new element to the end from an array.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.push("JavaScript");
```

Result of the above example is:

```
Output

// New array:  PHP, Python, Java, C, JavaScript
```

## 3: Array toString() Method

The js toString() method is used to convert array to string.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.toString();
```

Result of the above example is:

```
// output

PHP, Python, Java, C
```

## 4: Array join() Method

The javascript join() method is used to join the elements of an array into a string.

In otherwords, The “join()” method puts all the elements of the array into a string list. This method difference from “toString()” method.

## Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.join(" - ");
```

Result of the above example is:

```
// output

PHP - Python - Java - C
```

# 5: Array splice() Method

The javascript splice() method is used to add and remove items from an array.

```
syntax
================
array.splice(index, howMany, [element1][, …, elementN]);
```

- index – Index param specifies where a new item should be inserted.

- howMany – An integer indicating the number of old array elements to remove.
- If howMany set to 0, no items will be removed in array list.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.splice(2, 0, "Javascript", "Rust");
```

Result of the above example is:

```
// Output

new array: PHP, Python, Javascript, Rust, Java, C
```

## 6: Array sort() Method

The javascript array sort() method either alphabetic or numeric sorts an array.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.sort();
```

Result of the above example is:

```
// Outuput

array: C, Java, PHP, Python
```

## 7: Array shift() Method

The javascript shift() method is used to remove the first element from an array.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.shift();
```

Result of the above example is:

```
// Output

new array: Python, Java, C
```

## 8: Array unshift() Method

The js unshift() method adds a new element to the beginning of an array.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
cars.unshift("JavaScript");
```

Result of the above example is:

```
//Output

New array: JavaScript, PHP, Python, Java, C
```

## 9: Array reverse() Method

The method is used for reverses the order of the elements in an array.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
lang.reverse();
```

Result of the above example is:

```
// Outuput

array: C, Java, PHP, Python
```

## 10: Array concat() Method

The javascript concat() method joins two or more arrays and makes a new one.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C"];
var newlang = ["JavaScript", "Rust"];
var join = lang.concat(newlang);
```

Result of the above example is:

```
// Output
New array: PHP, Python, Java, C, JavaScript, Rust
```

## 11: Array slice() Method

The js slice() array() method is used to selected elements in an array and make a new one. It can take one or two arguments.

### Ex:-

```
var lang = ["PHP", "Python", "Java", "C", "JavaScript"];
var lang = cars.slice(1, 4);
```

Result of the above example is:

```
//Output

New Array : Python, JavaScript
```

## 12: Array filter() Method

The js filter() method is used to filter the array, according our conditions.

### Ex:-

```
<p>function isCheck(value) {<br>
  return value < 10;<br>
}

var filter = [10, 5, 16, 4, 7, 12].filter(isCheck);
```

Result of the above example is:

```
Output
 //new array: 5,4,7
```

In this example the function filter() creates a new array. Those elements that satisfy the condition checked by isCheck() function.

## 13: Array find() Method

The js find() method is used find the first element of an array.

### Ex:-

```
function isCheck(value) {
  return value >= 10;
}

var find= [10, 5, 16, 4, 7, 12].find(isCheck);
```

Result of the above example is:

```
Output

// 12
```

## 14: Array forEach() Method

The JavaScript Array forEach method permits the call of a function on each element of an array in an easy way.

### Ex:-

```
var num = [18, 12, 10, 15];
num.forEach(function(item) {
   document.writeln(item);
});
```

Result of the above example is:

```
Output
 // return

18 12 10 15
```

## 15: Array map() Method

The js map() method, creates an array by calling a specific function on each element in the original array.

### Ex:-

```
var numbers = [4, 9, 16, 25];
var x = numbers.map(Math.sqrt);
document.write(x);
```

Result of the above example is:

```
Output
// return
2,3,4,5
```

## 16: Array reduce() Method

The javascript array reduce() method reduces the array to a single value.

### Ex:-

```
var numArr = [
        {  name: 'a', num: 50},
        {  name: 'b', num: 50},
        {  name: 'c', num: 75},
        {  name: 'd', num: 35},
        {  name: 'e', num: 25 },
        {  name: 'f', num: 40 },
    ];

    var sum = numArr.reduce(function (total, currentValue) {
        return total + currentValue.num;
    }, 0);

    document.write( "javascript- Sum of the array value is :- " + sum );
```

Result of the above example is:

```
Output
 // return
 275
```

## 17: Array some() Method

The javascript array some() method checks whether at least one element of the array matches the given predicate. if none of the array elements match the predicate, then it will return false

### Ex:-

```
var nums = [3, 18, 19, 20, 25];

function checkNumber(num) {
  return num >= 25;
}

document.write(nums.some(checkNumber));
```

Result of the above example is:

```
Output
 // return
 True
```

## 18: Array every() Method

The javascript array every() method checks whether all elements of the array match the predicate:

### Ex:-

```
var nums = [3, 18, 19, 20, 25];

function checkNumber(num) {
  return num >= 3;
}

document.write(nums.every(checkNumber));
```

Result of the above example is:

```
 // return
 true
```

## 19: findIndex() Array Method

The javascript `findIndex()` method is used to find first occurrence position from an array.

```
let numbers = [1, 2, 3, 4, 5];

let res = numbers.findIndex(e => e % 2 == 1);

document.write(res); //
```

Result of the above example is:

```
// return
0
```

## 20: Array include() Method

The js includes() method returns `true` if an javascript array contains a given element; Otherwise, it returns `false`.

```
[1,2,3].includes(2); // true
[1,2,3].includes(4); // false
[1,2,3].includes(1,1); // false
```

Result of the above example is:

```
// return
true
false
false
```

## 21: indexOf() Array Method

The js array indexOf() method is used to find the first occurrence position of an array And returns the index of the first occurrence of the element. If the element is not found, -1 return.

```
var arr = [10, 20, 30, 40, 50, 70, 10, 50];
document.write(arr.indexOf(10)); // 0
document.write(arr.indexOf(50)); // 4
document.write(arr.indexOf(70)); // 5
```

Result of the above example is:

```
 // return
0
4
5
```

## 22: Array lastIndexOf() Method

This is similar to the indexOf() method, but one difference in these. The Javascript array lastIndexOf() method is used to find the last occurrence position of an array. It returns -1 if it cannot find the element.

```
var arr = [10, 20, 30, 40, 50, 70, 10, 40];
document.write(arr.lastIndexOf(10)); // 6
document.write(arr.lastIndexOf(40)); // 7
```

Result of the above example is:

```
 // return
6
7
```

## 23: JavaScript Array isArray() Method

The javascript array **isArray**() method is used to check whether an object is an **array**. This function returns true if the object is an **array**, otherwise return false.

```
var arr = [5, 3, 10, 1, 6, 12]

document.write("Retrun value = " + Array.isArray(arr));
```

Result of the above example is:

```
Retrun value = true
```