


Top 10 JavaScript Array Methods

A large yellow square containing the letters 'JS' in a bold, black, sans-serif font, representing JavaScript.

JS



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1. pop() method

This method removes the last element from an array and returns that element.

```
let cities = ["Delhi", "Lucknow", "Bangalore", "Mumbai"];

// remove the last element
let removedCity = cities.pop();

console.log(cities)           // ["Delhi", "Lucknow", "Bangalore"]
console.log(removedCity);    // Mumbai
```

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2. push() method

This method adds zero or more elements to the end of the array.

```
let city = ["Delhi", "Lucknow", "bangalore"];

// add "London" to the array
city.push("Mumbai");

console.log(city);

// Output: ["Delhi", "Lucknow", "bangalore", "Mumbai"];
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```



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3. reduce() method

This method executes a reducer function on each element of the array and returns a single output value.

```
const numbers = [20, 10, 18, 12];  
  
const sum = numbers.reduce((x, y) => x + y, 0);  
  
console.log(sum); // 60
```

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4. `forEach()` method

This method executes a provided function for each array element.

```
const words = ['HTML', 'CSS', 'JavaScript'];  
  
words.forEach(word ⇒ console.log(word));  
  
// HTML  
// CSS  
// JavaScript
```



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5. find() method

This method returns the value of the first array element that satisfies the provided test function.

```
const numbers = [7, 14, 8, 128, 56];  
  
const found = numbers.find(element => element > 10);  
  
console.log(found); // 14
```



6. sort() method

This method sorts the items of an array in a specific order (ascending or descending).

```
let city = ["Delhi", "Lucknow", "Patna", "Bangalore"];

// sort the city array in ascending order
let sortedArray = city.sort();
console.log(sortedArray);

// Output: [ 'Bangalore', 'Delhi', 'Lucknow', 'Patna' ]
```



7. filter() method

This method returns a new array with all elements that pass the test defined by the given function.

```
const words = ['HTML', 'CSS', 'JavaScript', 'Python'];  
const longWords = words.filter(word => word.length > 4);  
console.log(longWords); // ["JavaScript", "Python"]  
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```



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8. map() method

This method creates a new array with the results of calling a function for every array element..

```
const numbers = [1, 2, 3, 4, 5];  
  
const doubled = numbers.map(x => x * 2);  
  
console.log(doubled);  
  
// 2 4 6 8 10
```



9. findIndex() method

This method returns the index of the first array element that satisfies the provided test function or else returns. -1.

```
const numbers = [6, 11, 9, 100, 46];  
  
const indexFound = numbers.findIndex(element => element > 15);  
  
console.log(indexFound); // 3
```



10. concat() method

This method returns a new array by merging two or more values/arrays.

```
let primeNumbers = [2, 3, 5, 7]
let evenNumbers = [2, 4, 6, 8]

// join two arrays
let joinedArrays = primeNumbers.concat(evenNumbers);
console.log(joinedArrays);

/* Output:
[
  2, 3, 5, 7,
  2, 4, 6, 8
]
*/
```



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