JavaScript Array Methods

- description : JavaScript Array Methods
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The source of this article

JavaScript Array Methods
JavaScript   toString()   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits.toString();  //
Banana,Orange,Apple,Mango
```

join()   .

join()   toString()   (separator)   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits.join(" * ");
// Banana * Orange * Apple * Mango
```

Popping and Pushing

                    ,   .

        popping   pushing   .

                        (popping),   (pushing).

Popping

pop()   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
```

```
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Apple,Mango
fruits.pop();                                       // remove Mango
document.getElementById("demo2").innerHTML = fruits;  // Banana,Orange,Apple
```

pop()   (poped out)   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;        //
Banana,Orange,Apple,Mango
document.getElementById("demo2").innerHTML = fruits.pop();  // Mango
document.getElementById("demo3").innerHTML = fruits;        //
Banana,Orange,Apple
```

Pushing

push()   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits;

function myFunction() {
  fruits.push("Kiwi");
  document.getElementById("demo").innerHTML = fruits;  //
Banana,Orange,Apple,Mango,Kiwi
}
```

push()   :

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Apple,Mango

function myFunction() {
  document.getElementById("demo2").innerHTML = fruits.push("Kiwi");  // 5
  document.getElementById("demo1").innerHTML = fruits;   //
Banana,Orange,Apple,Mango,Kiwi
}
```

Shifting Elements

Shifting   popping   ,   .

shift()   (   ) "
      "   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Apple,Mango
fruits.shift();        // remove first element "Banana" from fruits
document.getElementById("demo2").innerHTML = fruits;  // Orange,Apple,Mango
```

shift()   :

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;           //
Banana,Orange,Apple,Mango
document.getElementById("demo2").innerHTML = fruits.shift();  // Banana
document.getElementById("demo3").innerHTML = fruits;           //
Orange,Apple,Mango
```

unshift()   ,
          ("unshifts" older elements):

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits;
//Banana,Orange,Apple,Mango

function myFunction() {
  fruits.unshift("Lemon");
  document.getElementById("demo").innerHTML = fruits; //
Lemon,Banana,Orange,Apple,Mango
}
```

unshift()   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;     //
Banana,Orange,Apple,Mango
document.getElementById("demo2").innerHTML = fruits.unshift("Lemon"); // 5
document.getElementById("demo3").innerHTML = fruits;     //
Lemon,Banana,Orange,Apple,Mango
```

Changing Elements

            (index number)   .

O	. [O]	, [1]	, [2]	...

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Apple,Mango
fruits[0] = "Kiwi";      // index[0]  Banana   "Kiwi"
document.getElementById("demo2").innerHTML = fruits;  //
Kiwi,Orange,Apple,Mango
```

length   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits; //
Banana,Orange,Apple,Mango

function myFunction() {
  fruits[fruits.length] = "Kiwi"; // fruits            'Kiwi'

  document.getElementById("demo").innerHTML = fruits; //
Banana,Orange,Apple,Mango,Kiwi
}
```

Deleting Elements

JavaScript   , JavaScript   delete   :

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = "The first fruit is: " +
fruits[0];  // The first fruit is: Banana
delete fruits[0];    // index[0]  Banana
document.getElementById("demo2").innerHTML = "The first fruit is: " +
fruits[0];  // The first fruit is: undefined
console.log(fruits);  // (4) [empty, "Orange", "Apple", "Mango"]
```

delete	(holes)	.	pop()
shift()	.		

Splicing an Array

splice()   (items)   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = "Original Array: " + fruits;
// Original Array: Banana,Orange,Apple,Mango
function myFunction() {
  fruits.splice(2, 0, "Lemon", "Kiwi");
  document.getElementById("demo2").innerHTML = "New Array: " + fruits;  //
New Array: Banana,Orange,Lemon,Kiwi,Apple,Mango
}
```

            (2)   (   )   .

            (0)   .

         ("Lemon", "Kiwi")   .

splice()   .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = "Original Array: " + fruits; //
Original Array: Banana,Orange,Apple,Mango

function myFunction() {
  let removed = fruits.splice(2, 2, "Lemon", "Kiwi");
  document.getElementById("demo2").innerHTML = "New Array: " + fruits;  //
New Array: Banana,Orange,Lemon,Kiwi
  document.getElementById("demo3").innerHTML = "Removed Items: " + removed;
// Removed Items: Apple,Mango
}
```

Using splice() to Remove Elements

              , splice()   "   "   ,
     .

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits;   //
Banana,Orange,Apple,Mango
```

```
function myFunction() {
  fruits.splice(0, 1);
  document.getElementById("demo").innerHTML = fruits; // Orange,Apple,Mango
}
```

(O)   (   )   .

(1)   .

.   .

Merging (Concatenating) Arrays

concat()   (   )   .

Merging Two Arrays

```
let myGirls = ["Cecilie", "Lone"];
let myBoys = ["Emil", "Tobias", "Linus"];
let myChildren = myGirls.concat(myBoys);

document.getElementById("demo").innerHTML = myChildren; //
Cecilie,Lone,Emil,Tobias,Linus
```

''concat()''   .   .

''concat()''   .

Merging Three Arrays

```
let arr1 = ["Cecille", "Lone"];
let arr2 = ["Emil", "Tobias", "Linus"];
let arr3 = ["Robin", "Morgan"];

let myChildren = arr1.concat(arr2, arr3);

document.getElementById("demo").innerHTML = myChildren;
```

```
//Cecille,Lone,Emil,Tobias,Linus,Robin,Morgan
```

concat()　　　　　　　　　　　　　　　　　　　　　.

Merging an Array with Values

```
let myChildren = arr1.concat("Peter");
document.getElementById("demo").innerHTML = myChildren; //
Emil,Tobias,Linus,Peter
```

Slicing an Array

slice()　　　　　　　　　　　　　　　　.

　　　　　　　　　　　1 ("Orange")　　　　　　　　　　　　　　.

```
let fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];
let citrus = fruits.slice(1); // index[1]~index[4]
citrus
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Lemon,Apple,Mango
document.getElementById("demo2").innerHTML = citrus;  //
Orange,Lemon,Apple,Mango
```

''slice()''　　　　　　　　　　　　.　　　　　　　　　　　　　　　　.

　　　　　　　　　3 ("Apple")　　　　　　　　　　　.

```
let fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];
let citrus = fruits.slice(3); //      3, 4            citrus
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Lemon,Apple,Mango
document.getElementById("demo2").innerHTML = citrus;  // Apple,Mango
```

slice()　　　　　　slice(1, 3)　　　　　　　　　　　　.

　　　　　　　　　　　　　(　　　　　　)　　　　　　　　.

```
let fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];
let citrus = fruits.slice(1, 3); //       1,2              citrus
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Lemon,Apple,Mango
document.getElementById("demo2").innerHTML = citrus;  // Orange,Lemon
```

, end   slice()   .

```
let fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];
let citrus = fruits.slice(2);                       //     2, 3, 4
    citrus
document.getElementById("demo1").innerHTML = fruits;  //
Banana,Orange,Lemon,Apple,Mango
document.getElementById("demo2").innerHTML = citrus;  // Lemon,Apple,Mango
```

Automatic toString()

JavaScript   (primitive value)   ,   .

.

.

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo2").innerHTML = fruits.toString(); //
Banana,Orange,Apple,Mango
```

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;      //
Banana,Orange,Apple,Mango
```

    JavaScript   toString()   .

Finding Max and Min Values in an Array

JavaScript .

(JS Array Sort) .

Sorting Arrays

(sorting arrays) (JS Array Sort) .

Complete Array Reference

Complete JavaScript Array Reference .

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, Javascript, Array, Methods