JavaScript Sorting Arrays

- description : JavaScript Sorting Arrays
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The source of this article

JavaScript Sorting Arrays

Sorting an Array

sort()   .

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

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

Reversing an Array

reverse()   .

.

```
// Create and display an array:
let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;     //
Banana,Orange,Apple,Mango

function myFunction() {
```

```
  fruits.sort();              // First sort the elements of fruits
  document.getElementById("demo2").innerHTML = fruits;  //
Apple,Banana,Mango,Orange
  fruits.reverse();           // Them reverse the order of the elements
  document.getElementById("demo3").innerHTML = fruits;  //
Orange,Mango,Banana,Apple
}
```

Numeric Sort

, sort()   .

("Apple"   "Banana"   ).

"2"   "1"   "25"   "100"   .

sort()   .

(compare function)   :

```
let points = [40, 100, 1, 5, 25, 10];
document.getElementById("demo").innerHTML = points;   // 40,100,1,5,25,10

function myFunction() {
  points.sort(function (a, b) { return a - b });
  document.getElementById("demo").innerHTML = points; // 1,5,10,25,40,100
}
```

:

```
let points = [40, 100, 1, 5, 25, 10];
document.getElementById("demo").innerHTML = points;   // 40,100,1,5,25,10

function myFunction() {
  points.sort(function (a, b) { return b - a });
  document.getElementById("demo").innerHTML = points; // 100,40,25,10,5,1
}
```

The Compare Function

.

, O   .

```
function (a, b) {return a-b}
```

sort()   ,   (, O,   )
            .

            , a   b   .

            , b   a   .

      O   ,   .

                                          (a, b)   .

40   100   , sort()   compare function (40, 100)   .

          40-100 (a-b)   ,   (-60)   40   100
            .

                                                            .

```
let points = [40, 100, 1, 5, 25, 10];
document.getElementById("demo").innerHTML = points;   // 40,100,1,5,25,10

function myFunction1() {
  points.sort();
  document.getElementById("demo").innerHTML = points; // 1,10,100,25,40,5
}
  function myFunction2() {
  points.sort(function (a, b) { return a - b });
  document.getElementById("demo").innerHTML = points; // 1,5,10,25,40,100
}
```

   , Javascript, Sorting, Arrays, box-sizing