

```
<!DOCTYPE html>

<html>

<body>


<h2>JavaScript HTML Events</h2>

<p>Click the button to display the date.</p>

<button
onclick="document.getElementById('demo1').innerHTML=Date()">The
time is?(Just Button)</button>

<p id="demo1"></p>


<button onclick="displayDate()">The time is? (With function)</button>


<script>

function displayDate() {

    document.getElementById("demo2").innerHTML = Date();

}

</script>


<p id="demo2"></p>

<button onclick="this.innerHTML=Date()">The time is?</button>

</body>

</html>
```

JavaScript HTML Events

Click the button to display the date.

The time is?(Just Button)

Sun Jul 02 2023 04:30:01 GMT+0800 (Central Indonesia Time)

The time is? (With function)

Sun Jul 02 2023 04:30:02 GMT+0800 (Central Indonesia Time)

Sun Jul 02 2023 04:30:03 GMT+0800 (Central Indonesia Time)

```
<button   ="alert('Hello')">Click me.
</button>
```

Correct!

[Next >](#)

```
<button   = "   " >Click me.
</button>
```

Correct!

[Next >](#)

```
<div   ="this.style.backgroundColor
='red'">myDIV.</div>
```

Correct!

[Next >](#)

```
<!DOCTYPE html><html><body><h1>JavaScript Arrays</h1>
<p id="demo1"></p><p id="demo"></p><p id="demo2"></p>
<p id="demo3"></p><p id="demo4"></p><p id="demo5"></p>
<p id="demo6"></p><p id="demo7"></p><p id="demo8"></p>
<p id="demo9"></p>
<p>The push method appends a new element to an array.</p>
<button onclick="myFunction()">Try it</button>
<p id="demo10"></p><script>
const cars = ["Saab", "Volvo", "BMW"];
document.getElementById("demo1").innerHTML = cars;
document.getElementById("demo").innerHTML = typeof cars;
//Changing an Array
cars[0] = "Opel";
document.getElementById("demo2").innerHTML = cars;
//Convert to String
const fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo4").innerHTML = fruits.toString();
//Access number
const addNumber = ["John", "Doe", 46];
document.getElementById("demo5").innerHTML = addNumber[2];
//Objects use names
const person = {firstName:"John", lastName:"Doe", age:46};
document.getElementById("demo6").innerHTML = person.firstName;
//length Property
let size = fruits.length;
document.getElementById("demo7").innerHTML = size;
//the Last Array
document.getElementById("demo8").innerHTML = fruits[fruits.length-1];
//Looping an Array
let fLen = fruits.length;
let text = "<ul>";
for (let i = 0; i < fLen; i++) {
  text += "<li>" + fruits[i] + "</li>";
}
text += "</ul>";
document.getElementById("demo9").innerHTML = text;
//add array
function myFunction() {
  fruits.push("Lemon");
  document.getElementById("demo10").innerHTML = fruits;
}
</script></body></html>
```

JavaScript Arrays

Saab,Volvo,BMW

object

Opel,Volvo,BMW

Banana,Orange,Apple,Mango

46

John

4

Mango

- Banana
- Orange
- Apple
- Mango

The push method appends a new element to an array.

Try it

Banana,Orange,Apple,Mango,Lemon

```
const cars = ["Saab", "Volvo", "BMW"];

let x = ;
```

Correct!

Next >

```
const cars = ["Volvo", "Jeep", "Mercedes"];

 = "Ford";
```

Correct!

Next >

```
const cars = ["Volvo", "Jeep", "Mercedes"];

alert();
```

Correct!

Next >

```
<!DOCTYPE html><html><body><h1>JavaScript Arrays Methods</h1>
<p id="demo1"></p><p id="demo2"></p><p id="demo3"></p>
<p id="demo4"></p><p id="demo5"></p><p id="demo6"></p>
<p id="demo7"></p><p id="demo8"></p><p id="demo9"></p>
<p id="demo10"></p><script>
const fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;
//The pop() method removes the last element from an array.
fruits.pop();
document.getElementById("demo2").innerHTML = fruits;
//The push() method appends a new element to an array:
fruits.push("Kiwi");
document.getElementById("demo3").innerHTML = fruits;
//The shift() method removes the first element of an array
fruits.shift();
document.getElementById("demo4").innerHTML = fruits;
//The unshift() method adds new elements to the beginning of an array:
fruits.unshift("Lemon");
document.getElementById("demo5").innerHTML = fruits;
//Deleting elements leaves undefined holes in an array:
delete fruits[0];
document.getElementById("demo6").innerHTML =
"The first fruit is: " + fruits[0];
//The concat() method merges (concatenates) arrays:
const arr1 = ["Cecilie", "Lone"];const arr2 = ["Emil", "Tobias", "Linus"];
const arr3 = ["Robin", "Morgan"];
const myChildren = arr1.concat(arr2, arr3);
document.getElementById("demo7").innerHTML = myChildren;
//The flat() method is the process of reducing the dimensionality of an array.
const myArr = [[1,2],[3,4],[5,6]];const newArr = myArr.flat();
document.getElementById("demo8").innerHTML = newArr;
//The splice() method can be used to add new items to an array:
fruits.splice(2, 0, "Wine", "Guava");
document.getElementById("demo9").innerHTML = fruits;
//The slice() method slices out a piece of an array into a new array.
const citrus = fruits.slice(1);
document.getElementById("demo10").innerHTML = citrus;
</script></body></html>
```

JavaScript Arrays Methods

Banana,Orange,Apple,Mango

Banana,Orange,Apple

Banana,Orange,Apple,Kiwi

Orange,Apple,Kiwi

Lemon,Orange,Apple,Kiwi

The first fruit is: undefined

Cecilie,Lone,Emil,Tobias,Linus,Robin,Morgan

1,2,3,4,5,6

,Orange,Wine,Guava,Apple,Kiwi

Orange,Wine,Guava,Apple,Kiwi

```
const fruits = ["Banana", "Orange", "Apple"];  
;
```

Correct!

[Next >](#)

```
const fruits = ["Banana", "Orange", "Apple"];  
.
```

Correct!

[Next >](#)

```
const fruits = ["Banana", "Orange", "Apple", "Kiwi"];  
fruits.splice(, );
```

Correct!

[Next >](#)

```
<!DOCTYPE html><html><body>

<h1>JavaScript Arrays sort</h1>

<p id="demo1"></p><p id="demo2"></p><p id="demo3"></p>

<p id="demo4"></p><p id="demo5"></p><p id="demo6"></p>

<p>Click the button (again and again) to sort the array in random
order.</p>

<button onclick="myFunction()">Try it</button>

<p id="demo7"></p><p id="demo8"></p><script>

const fruits = ["Banana", "Orange", "Apple", "Mango"];

document.getElementById("demo1").innerHTML = fruits;

//The sort() method sorts an array alphabetically:

fruits.sort();

document.getElementById("demo2").innerHTML = fruits;

//The reverse() method reverses the elements in an array.

fruits.reverse();

document.getElementById("demo3").innerHTML = fruits;

//The sort() Method Sort the array in ascending order:

const points = [40, 100, 1, 5, 25, 10];

document.getElementById("demo4").innerHTML = points;

points.sort(function(a, b){return a - b});

document.getElementById("demo5").innerHTML = points;

//Random Order

document.getElementById("demo6").innerHTML = points;

function myFunction() {

    points.sort(function(){return 0.5 - Math.random()});

    document.getElementById("demo6").innerHTML = points;}

//Using Math.max()

document.getElementById("demo7").innerHTML =
myArrayMax(points);

function myArrayMax(arr) {

    return Math.max.apply(null, arr);}

//Using Math.min()

document.getElementById("demo8").innerHTML =
myArrayMin(points);

function myArrayMin(arr) {

    return Math.min.apply(null, arr);}

</script></body></html>
```

JavaScript Arrays sort

Banana,Orange,Apple,Mango

Apple,Banana,Mango,Orange

Orange,Mango,Banana,Apple

40,100,1,5,25,10

1,5,10,25,40,100

1,5,10,25,40,100

Click the button (again and again) to sort the array in random order.

Try it

100

1

```
const fruits = ["Banana", "Orange", "Apple", "Kiwi"];
;
```

Correct!

[Next >](#)