

JavaScript Arrays

- description : JavaScript Arrays
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[[https://www.w3schools.com/js/js_events.asphttps://www.w3schools.com/js/js_arrays.asp JavaScript

```
<script>
  let cars = ["Saab", "Volvo", "BMW"];
  document.getElementById("demo").innerHTML = cars;
</script>
```

What is an Array?

(:) ,

```
let car1 = "Saab";
let car2 = "Volvo";
let car3 = "BMW";
```

?

? 가 3 가 300

!

Creating an Array

JavaScript

가

Syntax

```
var array_name = [item1, item2, ...];
```

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

(line breaks)

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

Using the JavaScript Keyword new

```
let cars = new Arrays("Saab", "Volvo", "BMW");
```

, new Array() 가 , the array literal method)

Access the Elements of an Array

(index number)

cars

```
let name = cars[0];
```

```
let cars = ["Saab", "Volvo", "BMW"];  
document.getElementById("demo").innerHTML = cars[1]; // Volvo
```

- *Note: 0 . [0] . [1] .

====Changing an Array Element=====

cars

```

<code javascript> cars[0] = "Opel"; </code>
<code javascript> let cars = ["Saab", "Volvo", "BMW"]; cars[2] = "Opel";
document.getElementById("demo").innerHTML = cars; Saab,Volvo,Opel </code>
====Access the Full Array===== JavaScript

```

```

<code javascript> let cars = ["Saab", "Volvo", "BMW"];
document.getElementById("demo").innerHTML = cars; Saab,Volvo,BMW </code>
====Arrays are Objects===== JavaScript

```

typeof

, JavaScript

가

“ ”

person[0] John

```

: ====Array:==== <code javascript> let person = ["John", "Doe", 46];
document.getElementById("demo").innerHTML = person[0]; John </code>

```

“ (members)”

person.firstName John

```

====Object==== <code javascript> let person = { firstName: "John", lastName:
"Doe", age: 46 }; document.getElementById("demo").innerHTML =
person["firstName"]; John </code>
====Array Elements Can Be Objects=====
JavaScript 가

```

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<code javascript> myArray[0] = Date.now; myArray[1] = myFunction; myArray[2] =
myCars; </code>
====Array Properties and Methods===== JavaScript

```

```

<code javascript> let x = cars.length; The length property returns the number of
elements let y = cars.sort(); The sort() method sorts arrays </code>

```

```

====The length Property===== length (
)

```

```

<code javascript> let fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits.length; the length of fruits is
4 </code>

```

length 가

```

====Accessing the First Array Element===== <code javascript> let fruits =
["Banana", "Orange", "Apple", "Mango"]; let first = fruits[0];
document.getElementById("demo").innerHTML = first; Banana </code>

```

```

====Accessing the Last Array Element===== <code javascript> let fruits =
["Banana", "Orange", "Apple", "Mango"]; let last = fruits[fruits.length - 1];
fruits[fruits.length-1] = fruits[4-1] = fruits[3]

```

```

document.getElementById("demo").innerHTML = last; Mango </code>

```

```

====Looping Array Elements===== 가 for loop

```

```
<code javascript> let fruits, text, fLen, i;          fruits = ["Banana", "Orange",  
"Apple", "Mango"]; fruits          fLen = fruits.length; 4 text = "<ul>"; for (i = 0; i  
< fLen; i++) { text += "<li>" + fruits[i] + "</li>"; } text += "</ul>";  
document.getElementById("demo").innerHTML = text; </code>
```

Array.forEach()

```
<code javascript> let fruits, text; fruits = ["Banana", "Orange", "Apple", "Mango"];  
text = "<ul>"; fruits.forEach(myFunction); text += "</ul>";  
document.getElementById("demo").innerHTML = text; function myFunction(value) {  
text += "<li>" + value + "</li>"; } </code> =====Adding Array Elements=====  
가 가 "push()"
```

```
<code javascript> </code>
```

length

가

```
<code javascript> </code> WARNING!
```

가

가

(undefined) " (holes)"

```
<code javascript> </code> =====Associative Arrays=====
```

, Javascript, Arrays

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