JavaScript Array Reference

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Array Properties

The complete `Array` object reference:

Property	Description
`length`	Number of elements in the array
`constructor`	The array constructor function

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

<h2>JavaScript Array Reference</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Array Properties</h4>
<p id="demo"></p>

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

document.getElementById("demo").innerHTML =
  "Array: " + fruits + "<br>" +
  "length: " + fruits.length + "<br>" +
  "constructor: " + fruits.constructor;
</script>

</body>
</html>
```

Example 1

Result View Example

Basic Methods

Basic array methods for converting and joining:

Method	Description
`toString()`	Convert array to comma-separated string
`join(sep)`	Join elements with a separator
`at(index)`	Get element at index (supports negative)
`fill(value)`	Fill all elements with a value

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

<h2>JavaScript Array Reference</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Basic Methods</h4>
<p id="demo"></p>

<script>
const fruits = ["Banana", "Orange", "Apple"];

// Create a copy for fill demonstration
const filled = new Array(3);
filled.fill("Kiwi");

document.getElementById("demo").innerHTML =
  "toString(): " + fruits.toString() + "<br>" +
  "join(' - '): " + fruits.join(" - ") + "<br>" +
  "at(-1): " + fruits.at(-1) + "<br>" +
  "fill('Kiwi'): " + filled;
</script>

</body>
</html>
```

Example 2

Result View Example

Search Methods

Array search methods reference:

Method	Description
`indexOf(item)`	First index of item (-1 if not found)
`lastIndexOf(item)`	Last index of item
`includes(item)`	True if item exists
`find(fn)`	First value passing test
`findIndex(fn)`	First index passing test

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

<h2>JavaScript Array Reference</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Search Methods</h4>
<p id="demo"></p>

<script>
const numbers = [10, 20, 30, 20, 40];

document.getElementById("demo").innerHTML =
  "Array: " + numbers + "<br><br>" +
  "indexOf(20): " + numbers.indexOf(20) + "<br>" +
  "lastIndexOf(20): " + numbers.lastIndexOf(20) + "<br>" +
  "includes(30): " + numbers.includes(30) + "<br>" +
  "find(v > 25): " + numbers.find(v => v > 25) + "<br>" +
  "findIndex(v > 25): " + numbers.findIndex(v => v > 25);
</script>

</body>
</html>
```

Example 3

Result View Example

Iteration Methods

Array iteration methods reference:

Method	Description
`forEach(fn)`	Call function for each element
`map(fn)`	Create new array from results
`filter(fn)`	Keep elements passing test
`reduce(fn)`	Reduce to a single value
`every(fn)`	True if all pass
`some(fn)`	True if any pass

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

<h2>JavaScript Array Reference</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Iteration Methods</h4>
<p id="demo"></p>

<script>
const numbers = [1, 2, 3, 4, 5];

let text = "Array: " + numbers + "<br><br>";

// forEach
let sum = 0;
numbers.forEach(v => sum += v);
text += "forEach (sum): " + sum + "<br>";

// map
text += "map(v * 10): " + numbers.map(v => v * 10) + "<br>";

// filter
text += "filter(v % 2 == 0): " + numbers.filter(v => v % 2 === 0) + "<br>";

// reduce
text += "reduce(sum): " + numbers.reduce((acc, v) => acc + v, 0) + "<br>";

// every/some
text += "every(v > 0): " + numbers.every(v => v > 0) + "<br>";
text += "some(v > 4): " + numbers.some(v => v > 4);

document.getElementById("demo").innerHTML = text;
</script>

</body>
</html>
```

Example 4

Result View Example

Add/Remove Methods

Methods for adding and removing elements:

Method	Description
`push(item)`	Add to the end
`pop()`	Remove from the end
`shift()`	Remove from the beginning
`unshift(item)`	Add to the beginning
`splice(start, count)`	Add/remove in the middle
`concat(arr)`	Merge arrays

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

<h2>JavaScript Array Reference</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Add/Remove Methods</h4>
<p id="demo"></p>

<script>
const arr = ["A", "B"];

let text = "Start: " + arr + "<br><br>";

arr.push("C");
text += "push('C'): " + arr + "<br>";

arr.unshift("Z");
text += "unshift('Z'): " + arr + "<br>";

arr.pop();
text += "pop(): " + arr + "<br>";

arr.shift();
text += "shift(): " + arr + "<br>";

arr.splice(1, 0, "X");
text += "splice(1,0,'X'): " + arr + "<br>";

text += "concat(['Y']): " + arr.concat(["Y"]);

document.getElementById("demo").innerHTML = text;
</script>

</body>
</html>
```

Example 5

Result View Example

Document

Document in project

You can Download PDF file.

Reference

- W3Schools JavaScript Array Reference