

JavaScript String Methods

- description : JavaScript String Methods
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[JavaScript String Methods](#)

String Methods and Properties

"John Doe" (Primitive values) 가 (가).

JavaScript ,
JavaScript ,

String Length

length .

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Properties</h2>
  <p>The length property returns the length of a string</p>
  <p id="demo"></p>
  <script>
    let txt = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
    let sln = txt.length;
    document.getElementById("demo").innerHTML = sln;
  </script>
</body>
</html>
```

Finding a String in a String

`indexOf()` _____(occurrence) ()

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The indexOf() method returns the position of the first occurrence of a
specified text:</p>
  <p id="demo"></p>
  <script>
    let str = "Please locate where 'locate' occurs!";
    let pos = str.indexOf("locate");
    document.getElementById("demo").innerHTML = pos; // 7
  </script>
</body>
</html>
```

```
%%JavaScript%% 0
0 , 1 , 2 ...
```

`lastIndexOf()` 가 ()

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The lastIndexOf() method returns the positon of the last occurrence of
a specified text:</p>
  <p id="demo"></p>
  <script>
    let str = "Please locate where 'locate' occurs!";
    let pos = str.lastIndexOf('locate');
    document.getElementById("demo").innerHTML = pos; // 21
  </script>
</body>
</html>
```

가 , `indexOf()` `lastIndexOf()` -1 .

```
<!DOCTYPE html>
```

```

<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>Both indexOf() and lastIndexOf() returns -1 if the text is not
found:</p>
  <p id="demo"></p>
  <script>
    let str = "Please locate where 'locate' occurs!";
    let pos = str.indexOf("John");
    document.getElementById("demo").innerHTML = pos; // -1
  </script>
</body>
</html>

```

```

<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The indexOf() method accepts a second parameter as the starting
position for the search:</p>
  <p id="demo"></p>
  <script>
    let str = "Please locate where 'locate' occurs!";
    let pos = str.indexOf("locate", 15); //index[15]
    document.getElementById("demo").innerHTML = pos; // 21
  </script>
</body>
</html>

```

lastIndexOf() () .
 , 가 15 , 15 , .

```

<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The lastIndexOf() method accepts a second parameter as the starting
position for the search.</p>
  <p>Remember that the lastIndexOf() method searches backwards, so position
15 means start the search at position 15, and search to the beginning.</p>
  <p>Position 15 is position 15 from the beginning</p>
  <p id="demo"></p>
  <script>
    let str = "Please locate where 'locate' occurs!";
    let pos = str.lastIndexOf("locate", 15);
    document.getElementById("demo").innerHTML = pos; // 7
    console.log(str.length); // 36
  </script>
</body>
</html>

```

```

        console.log(str[15]);          // h
    </script>
</body>
</html>

```

var = str	P	l	e	a	s	e		l	o	c	a	t	e		w	h	e	r	e		'	l	o	c	a	t	e		'		o	c	c	u	r	s	!
Index no	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
Index no : 0 ~ 35 / length : 36																																					

Tip: `indexOf()` (index[0])

`searchValue`

Searching for a String in a String

```
search(
```

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The search() method returns the position of the first occurrence of a
specified text in a string.</p>
  <p id="demo"></p>
  <script>
    let str = "Please locate where 'locate' occurs!";
    let pos = str.search("locate");
    document.getElementById("demo").innerHTML = pos; // 7
  </script>
</body>
</html>
```

Did You Notice?

indexOf()	search()	?
()		?

가

- `search()`
- `indexOf()`

Extracting String Parts

3가

- slice(start, end)
- substring(start, end)
- substr(start, length)

The slice() Method

slice()

(,) 가

7 12 (13-1)

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The slice() method extract a part of a string and returns the extracted
parts in a new string:</p>
  <p id="demo"></p>
  <script>
    let str = "Apple, Banana, Kiwi";
    let res = str.slice(7, 13); // 7- , 13- , X
    document.getElementById("demo").innerHTML = res; // Banana
  </script>
</body>
</html>
```

: 0 . 0 .

가 ,

-12 -6 .

```
<script>
  let str = "Apple, Banana, Kiwi";
  let res = str.slice(-12, -6);
  document.getElementById("demo").innerHTML = res;
  console.log(str.length);
</script>
```

가 from MDN:

```
str.slice(beginIndex[, endIndex])
```

```
beginIndex:
-
-           , beginIndex = str.length(           ) + beginIndex
- ) beginIndex = -3           ,           strLength + (-3)
endIndex:
- 0
- endIndex
```

(- > 가 가 , .

```
<script>
let str = "Apple, Banana, Kiwi";
let res = str.slice(7);
document.getElementById("demo").innerHTML = res; // Banana, Kiwi
</script>
```

가 , 가 .

```
<script>
let str = "Apple, Banana, Kiwi";
let res = str.slice(-12);
document.getElementById("demo").innerHTML = res; // Banana, Kiwi
</script>
```

Internet Explorer 8 가 .

The substring() Method

substring() slice() .

substring() .

```
<script>
let str = "Apple, Banana, Kiwi";
let res = str.substring(7, 13); // index7 12
document.getElementById("demo").innerHTML = res; // Banana
</script>
```

substring()

The substr() Method

substr() slice()

가

```
<script>
  let str = "Apple, Banana, Kiwi";
  let res = str.substr(7, 10);    // index7    10
  document.getElementById("demo").innerHTML = res;  // Banana, Ki
</script>
```

, substr()

```
<script>
  let str = "Apple, Banana, Kiwi";
  let res = str.substr(8);    // index7
  document.getElementById("demo").innerHTML = res;  // anana, Kiwi
</script>
```

가

```
<script>
  let str = "Apple, Banana, Kiwi";
  let res = str.substr(-8);    // index-8
  document.getElementById("demo").innerHTML = res;  // na, Kiwi
</script>
```

Replacing String Content

replace()

()

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo">Please visit Microsoft!</p>
  <script>
    function myFunction() {
      let str = document.getElementById("demo").innerHTML;
      let txt = str.replace("Microsoft", "W3Schools");
```

```
document.getElementById("demo").innerHTML = txt;
}
</script>
</body>
</html>
```

`'replace()'`

`, replace()`

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo">Please visit Microsoft and Microsoft!</p>
  <script>
    function myFunction() {
      let str = document.getElementById("demo").innerHTML;
      let txt = str.replace("Microsoft", "W3Schools");
      document.getElementById("demo").innerHTML = txt;
    }
  </script>
</body>
</html>
```

`replace()`

`MICROSOFT`

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>Try to replace "Microsoft" with "W3Schools" in the paragraph below:</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo">Please visit Microsoft!</p>
  <script>
    function myFunction() {
      let str = document.getElementById("demo").innerHTML;
      let txt = str.replace("MICROSOFT", "W3Schools");
      document.getElementById("demo").innerHTML = txt;
    }
  </script>
```

```
<P><strong>Note:</strong> Nothing will happen. By default, the replace()
method is case sensitive. Writing MICROSOFT (with upper-case) will not
work.</P>
</body>
</html>
```

```
, /i ( ) .
```

```
<script>
function myFunction() {
  let str = document.getElementById("demo").innerHTML;
  let txt = str.replace(/MICROSOFT/i, "W3Schools");
  document.getElementById("demo").innerHTML = txt;
}
</script>
```

```
, /g ( ) .
```

```
<script>
function myFunction() {
  let str = document.getElementById("demo").innerHTML;
  let txt = str.replace(/Microsoft/g, "W3Schools");
  document.getElementById("demo").innerHTML = txt;
}
</script>
```

global match & case-insensitive

```
<script>
function myFunction() {
  let str = document.getElementById("demo").innerHTML;
  let txt = str.replace(/MiCROSOFT/gi, "W3Schools");
  document.getElementById("demo").innerHTML = txt;
}
</script>
```

Converting to Upper and Lower Case

```
toUpperCase() .
```

```
<!DOCTYPE html>
```

```
<html>
<body>
  <p>Convert string to upper case:</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo">Bonjour le Monde</p>
  <script>
    function myFunction() {
      let text = document.getElementById("demo").innerHTML;
      document.getElementById("demo").innerHTML = text.toUpperCase();
    }
  </script>
</body>
</html>
```

toLowerCase()

```
<script>
  function myFunction() {
    let text = document.getElementById("demo").innerHTML;
    document.getElementById("demo").innerHTML = text.toLowerCase();
  }
</script>
```

The concat() Method

concat()

```
<script>
  let text1 = "Impossible is";
  let text2 = "Nothing";
  let text3 = text1.concat(" ", text2); // // text1+ +text2
  document.getElementById("demo").innerHTML = text3; // Impossible is
  Nothing
</script>
```

concat()

```
var text = "Hello" + " " + "World!";
var text = "Hello".concat(" ", "World!");
```

: (immutable) : , 가 .

String.trim()

trim()

```
<script>
function myFunction() {
  let str = "   Hello World!   ";
  alert(str.trim());
}
</script>
```

Internet Explorer 8

trim ()

가

IE 8

replace()

```
<script>
let str = "   Hello World!   ";
alert(str.replace(/^[\\s\\uFEFF\\xA0]+|\\s\\uFEFF\\xA0]+$/g, ''));
</script>
```

replace

JavaScript String.prototype

가

```
<script>
if (!String.prototype.trim) {
  String.prototype.trim = function () {
    return this.replace(/^[\\s\\uFEFF\\xA0]+|\\s\\uFEFF\\xA0]+$/g, '');
  };
}
let str = "   Hello World!   ";
alert(str.trim());
</script>
```

JavaScript String Padding

ECMAScript 2017

가

String

padStart

padEnd

가

MDN

가

:

()

str.padStart(targetLength [, padString])

- targetLength : . 가

padString(가)

- . "".(U+0020)

```
<script>
  let str = "5";
  str = str.padStart(4, 0);
  document.getElementById("demo").innerHTML = str; // 0005
</script>
```

```
<script>
  let str = "321";
  str = str.padEnd(4, 0);
  document.getElementById("demo").innerHTML = str; // 3210
</script>
```

Internet Explorer .

Firefox Safari JavaScript .

Extracting String Characters

가 가 .

- charAt(position)
- charCodeAt(position)
- []

The charAt() Method

charAt() () .

```
<script>
  let str = "HELLO WORLD";
  document.getElementById("demo").innerHTML = str.charAt(6); // W
</script>
```

The charCodeAt() Method

charCodeAt()

UTF-16 (0 65535)

```
<script>
  let str = "HELLO WORLD";
  document.getElementById("demo").innerHTML = str.charCodeAt(0); // 72
</script>
```

Property Access

ECMAScript 5 (2009)

[]

```
<script>
  let str = "HELLO WORLD";
  document.getElementById("demo").innerHTML = str[8]; // returns R
</script>
```

```
*
*   가
*   * Internet Explorer 7
*   *   (
*   *   , %%[]%%   %%undefined%%   , %%charAt()%%
*   *   .
*   *   . %%str[0] = "A"%%   !
```

```
<script>
let str = "HELLO WORLD";
str[0] = "A"; // Gives no error, but does not work
str[0]; // returns H
</script>
```

Converting a String to an Array

split()

```
<script>
function myFunction() {
  let str = "a, b, c, d, e, f";
  let arr = str.split(",");
  console.log(arr); // (6) ["a", " b", " c", " d", " e", " f"]
  document.getElementById("demo").innerHTML = arr[2]; // c
}
</script>
```

(separator) , [0] .
가 "" , .

```
<script>
let str = "Bonjour";
let arr = str.split(""); //
let arr2 = str.split(); // , [0]

let text = ""; //
let i; // i
for (i = 0; i < arr.length; i++) {
  text += arr[i] + "<br>"
}
document.getElementById("demo").innerHTML = text;
console.log(arr); // (7) ["B", "o", "n", "j", "o", "u", "r"]
console.log(arr2); // ["Bonjour"]
</script>
```

Complete String Reference

, [Complete JavaScript String Reference](#) .

가 .

, [Javascript, String, Methods](#)

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