

# JavaScript String Methods

- description : JavaScript String Methods
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## The source of this article

[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:lastIndexOf()                                     (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)

[]

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

## Converting a String to an Array

split()

(separator)

가 ""

[0]

.\ 

# Complete String Reference

, [Complete JavaScript String Reference](#) .

가

, [Javascript, String, Methods](#)

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