JavaScript String Methods

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

"John Doe" (Primitive values) (
).

JavaScript ,
JavaScript , .

String Length

length .

```html
<!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) (   )
.

```html
<!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%%   O   .
O   , 1   , 2   ...

lastIndexOf()   (   )
          .

```html
<!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>
```

, indexOf()   lastIndexOf()   -1   .

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

```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>
```

.

```html
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The indexOf() method accepts a second parameter as thee 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()   (   )   .
  ,   15   ,   15   ,   .

```html
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>The lastIndexOf() method accepts a second parameter as the stating
position for the search.</p>
  <p>Remember that the lastIndexOf() method searches backwords, 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
```

```
    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 occurrnece 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()   ?

          (   )   ?

                            .   .

- search()   .
- indexOf()   (   )   .

                              .

Extracting String Parts

3 .

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

The slice() Method

slice() , .

( ) .

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 .

, .

-12 -6 .

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

from MDN:

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

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

,   .

(– >
)

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

,   .

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

```
Internet Explorer 8                                 .
```

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();;   .

                                            .

<code javascript> <script> let str = "Apple, Banana, Kiwi"; let res = str.substr(7, 10); *index7   10 document.getElementById("demo").innerHTML = res;* Banana, Ki </script> </code>
                              , substr()   .
<code javascript> <script> let str = "Apple, Banana, Kiwi"; let res = str.substr(8); *index7 document.getElementById("demo").innerHTML = res;* anana, Kiwi </script> </code>

        .

<code javascript> <script> let str = "Apple, Banana, Kiwi"; let res = str.substr(-8); *index-8 document.getElementById("demo").innerHTML = res;* na, Kiwi </script> </code>
=====Replacing String Content===== replace()
    (   )   .
<code javascript> <!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> </code>
replace()   .   .
        , replace()''   .

```html
<!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>
```

, Javascript, String, Methods

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