

Javascript Regular Expressions

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The source of this article

[Javascript Regular Expressions](#)

(Regular Expression,) .

replace .

What is a Regular Expression?

(Regular Expression,) .

,

.

(text search) (text replace)

.

Syntax

```
/pattern/modifiers;
```

Example

```
var patt = /w3schools/i;
```

:

/w3schools/i () .

w3schools () .

i () (modifier) .

Using String Methods

JavaScript , search() replace() 가 .

search() , .

replace() .

Using String search() With a String

search() .

Example

["W3schools" string .

```
<!DOCTYPE html>
<html>
<body>
  <h2>JavaScript String Methods</h2>
  <p>Search a string for "W3schools", and display the position of the
match.</p>
  <p id="demo"></p>  <!-- 6 -->
  <script>
    let str = "Visit W3Schools!";
    let n = str.search("W3Schools"); /* W3Schools가 ? */
    document.getElementById("demo").innerHTML = n;
  </script>
</body>
</html>
```

Using String search() With a Regular Expression

Example

"w3schools" .

```
<!DOCTYPE html>
```

```

<html>
<body>
  <h2>JavaScript Regular Expressions</h2>
  <p>Search a string for "w3schools", and display the position of the
match:</p>
  <p id="demo"></p>    <!-- 6 -->
  <script>
    let str = "Visit W3Schools!";
    let n = str.search(/w3Schools/i); /*
? */
    document.getElementById("demo").innerHTML = n;
  </script>
</body>
</html>

```

Using String replace() With a String

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>    <!-- Please visit W3Schools! -
->
  <script>
    function myFunction() {
      let str = document.getElementById("demo").innerHTML;
      let txt = str.replace("Microsoft", "W3Schools");
      document.getElementById("demo").innerHTML = txt;
    }
  </script>
</body>
</html>

```

Use String replace() With a Regular Expression

W3Schools (a case insensitive regular expression) Microsoft

```

<!DOCTYPE html>
<html>
<body>

```

```
<h2>JavaScript Regular Expressions</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/i, "W3Schools");
    document.getElementById("demo").innerHTML = txt;
  }
</script>
</body>
</html>
```

Did You Notice?

, () (:).

Regular Expression Modifiers

(Modifiers)

Modifier	Description
i	.
g	()
m	.

Example of i modifier

```
<script>
  function myFunction() {
    let str = "Visit W3Schools";
    let patt1 = /w3schools/i; /*      w3schools      patt1
*/
    let result = str.match(patt1); /*      str      patt1(
w3schools      result      ) */
    document.getElementById("demo").innerHTML = result; /*      result
id="demo"  7f  p      */
  }
</script>
```

Example of g modifier

```
<script>
function myFunction() {
  let str = "Is this all there is?";
  let patt1 = /is/g; /*
  let result = str.match(patt1);
  document.getElementById("demo").innerHTML = result;
}
```

Example of m modifier

```
<script>
function myFunction() {
  let str = "\nIs th\nis it?";
  let patt1 = /^is/m;
  let result = str.match(patt1);
  document.getElementById("demo").innerHTML = result; /* is */
}
</script>
```

Regular Expression Patterns

:

Expression	Description
[abc]	.
[0-9]	.
(x y)	alternatives .

Example of [abc] pattern

```
<script>
function myFunction() {
  let str = "Is this all there is?";
  let patt1 = /[h]/g;
  let result = str.match(patt1);
  document.getElementById("demo").innerHTML = result; /* h,h */
}
</script>
```

Example of [0-9] pattern

```
<script>
```

```
function myFunction() {
    let str = "123456789";
    let patt1 = /[1-4]/g; /*      str      1~4      patt1      */
    var result = str.match(patt1); /*      patt1      str      result      */
    document.getElementById("demo").innerHTML = result; /* 1,2,3,4 */
}
```

</script>

Example of (x|y) pattern

```
<script>
  function myFunction() {
    let str = "re, green, red, green, gren, gr, blue, yellow";
    let patt1 = /(red|green)/g;
    let result = str.match(patt1);
    document.getElementById("demo").innerHTML = result; /* green,red,green
*/
  }
</script>
```

Metacharacters are characters with a special meaning:

Metacharacter() :

Metacharacter	Description
\d	(digit) . digit: 0 9 10
\s	(whitespace character)
\b	\ bWORD WORD \ b
\uxxx	16 xxxx .

Example of Metachatacters (\d)

```
<script>
  function myFunction() {
    let str = "Give 100%!";
    let patt1 = /\d/g; /*      \d      patt1      */
    let result = str.match(patt1); /*      str      patt1
result      */
    document.getElementById("demo").innerHTML = result; /* 1,0,0 */
  }
</script>
```

Example of Metacharacters (\s)

Exmample of Metacharacters (\b)

Exmample of Metacharacters (\b)

Example of Metacharacters (\uxxxx)

Quantifiers define quantities

Quantifier	Description
n+	n n
n*	n 0 .
n?	n 0 1 .

Example of Quantifiers (n+)

Example of Quantifiers (n*)

Example of Quantifiers (n?)

Using the RegExp Object

, [Javascript](#), [Regular](#), [Expressions](#)

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