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

Using String search() With a String

```
search()
```

Example

```
[ "W3schools" string .
```

Using String search() With a Regular Expression

Example

"w3schools"

```
<!DOCTYPE html>
```

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```
<html>
<body>
<br/>
<br/>
<br/>
<br/>
<br/>
<br/>
<h2>JavaScript Regular Expressions</h2>
<br/>
<psearch a string for "w3schools", and display the position of the match:</p>

<br/>

<br/>
<!-- 6 -->
<br/>
<script>
<br/>
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>
 Replace "Microsoft" with "W3Schools" in the paragraph below:
 <button onclick="myFunction()">Try it</button>
 Please visit Microsoft! <!-- Please visit W3Schools! -</pre>
 <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

```
(a case insensitive regular expression) Microsoft W3Schools
```

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

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```
<h2>JavaScript Regular Expressions</h2>
 Replace "Microsoft" with "W3Schools" in the paragraph below:
 <button onclick="myFunction()">Try it</button>
 Please visit Microsoft and Microsoft!
 <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" 가 p
  </script>
```

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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

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)

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```
</script>
```

Example of Metacharacters (\s)

Exmaple of Metacharacters (\b)

Exmaple of Metacharacters (\b)

```
<script>
  let str = "HELLO, LOOK AT YOU";
  let patt1 = /LO\b/; /* LOZH ZH */
  let result = str.search(patt1);
  document.getElementById("demo").innerHTML = result; /* Found in

position: 3 */
  </script>
```

Example of Metacharacters (\uxxxx)

```
<script>
  function myFunction() {
    let str = "Visit W3Schools. Hello World!";
    let patt1 = /\u0057/g;
    let result = str.match(patt1);
    document.getElementById("demo").innerHTML = result; /* W,W */
}
```

```
</script>
```

Quantifiers define quantities

Quantifier	De	scri	ption	
n+			n	
n*	n	0		
n?	n	0	1	

Example of Quantifiers (n+)

```
<script>
  function myFunction() {
    let str = "Hellooo World! Hello W3Schools!";
    let patt1 = /o+/g; /* o // */
    let result = str.match(patt1);
    document.getElementById("demo").innerHTML = result; /* ooo,o,o,oo */
}
</script>
```

Example of Quantifiers (n*)

Example of Quantifiers (n?)

```
<script>
  function myFunction() {
    let str = "1, 100 or 1000?";
    let patt1 = /10?/g;
    let result = str.match(patt1);
    document.getElementById("demo").innerHTML = result; /* 1,10,10 */
}
</script>
```

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Using the RegExp Object

JavaScript RegExp 가

Using test()

```
""test()
             RegExp(
                              true
                                      false
                  "e"
====Example==== <code javascript> var patt = /e/; patt.test("The best things
in life are free!"); </code>
       "e"가
                                    true
                       가
<code javascript> /e/.test("The best things in life are free!"); </code>
<code javascript> <!DOCTYPE html> <html> <body> <h2>JavaScript Regular
Expressions</h2> Search for an "e" in the next paragraph: <p
id="p01">The best things in life are free!  <script>
text = document.getElementById("p01").innerHTML;
document.getElementById("demo").innerHTML = /e/.test(text); </script> </body>
</html> </code>
=====Using exec()===== exec()"
                                   RegExp
                    (null)
```

Example

Complete RegExp Reference

Complete JavaScript RegExp Reference

RegExp 가

, Javascript, Regular, Expressions

Last

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