

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"); /* W3Schools 가
    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" 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;
  }
</script>
```

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

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