

# Javascript Regular Expressions

- description : 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

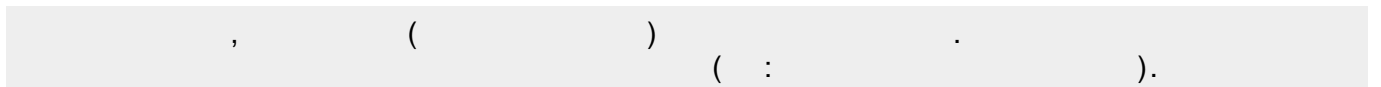
```

<!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(result) */
    document.getElementById("demo").innerHTML = result; /* result */
  }
</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

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

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