# **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 ( ) .
```

## **Using String Methods**

## Using String search() With a String

```
search()
```

#### **Example**

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

## Using String search() With a Regular Expression

#### **Example**

"w3schools"

```
<!DOCTYPE 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>
```

```
<h2>JavaScript Regular Expressions</h2>
Replace "Microsoft" with "W3Schools" in the paragraph below:
<butonial onclick = "myFunction()">Try it</buton>
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**

#### **Example of g modifier**

#### **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 pattl = /[1-4]/g; /* str 1~4 pattl */
    var result = str.match(pattl); /* pattl 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 )

</script>

### **Example of Metacharacters (\s)**

#### **Exmaple of Metacharacters (\b)**

### **Exmaple 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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