# **Javascript Regular Expressions**

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#### The source of this article

```
Javascript Regular Expressions

(Regular Expression, )

replace
```

# What is a 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:
<butonsize of the paragraph below:</p>
<br/>

</pre
```

### **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>
```

#### **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 pattl = /[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)**

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

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

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

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

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

# **Quantifiers define quantities**

Quantifier	er 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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