

JavaScript RegExp Reference

Previous

Next >

The RegExp Object

A regular expression is a **pattern** of characters.

The pattern is used for **searching and replacing** characters in strings.

The **RegExp Object** is a regular expression with added **Properties** and **Methods**.

Syntax

```
/pattern/modifier(s);
```

Example

```
let pattern = /w3schools/i;
```

Try it Yourself »

Example explained:

w3schools The pattern to search for



CSS

JAVASCRIPT

SQL

PYTHON

JAVA

HOW TO

W3.CSS

For a tutorial about Regular Expressions, read our <u>JavaScript RegExp Tutorial</u>.

Browser Support

/regexp/ is an ECMAScript1 (JavaScript 1997) feature.

It is supported in all browsers:

Chrome	Edge	Firefox	Safari	Opera	IE
Yes	Yes	Yes	Yes	Yes	Yes

Modifiers

Modifiers define how to perform the search:

Modifier	Description
∠g.	Perform a global match (find all)
<u>/i</u>	Perform case-insensitive matching
<u>/m</u>	Perform multiline matching

Brackets

Brackets are used to find a range of characters:

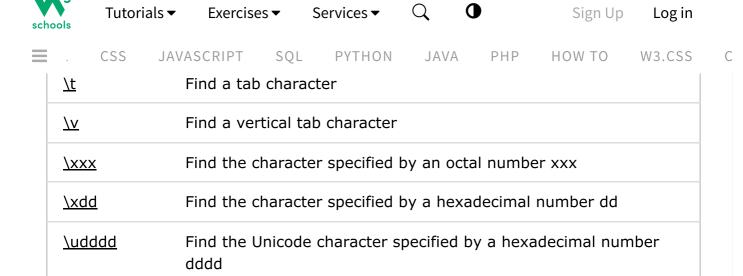
Bracket	Description
[abc]	Find any character between the brackets
[<u>^abc]</u>	Find any character NOT between the brackets
[0-9]	Find any character between the brackets (any digit)



Metacharacters

Metacharacters are characters with a special meaning:

Character	Description
<u>.</u>	Find a single character, except newline or line terminator
<u>\w</u>	Find a word character
<u>\W</u>	Find a non-word character
<u>\d</u>	Find a digit
<u>7D</u>	Find a non-digit character
<u>\s</u>	Find a whitespace character
<u>\S</u>	Find a non-whitespace character
<u>\p</u>	Find a match at the beginning/end of a word, beginning like this: $\begin{tabular}{l} \begin{tabular}{l} \b$
<u>\B</u>	Find a match, but not at the beginning/end of a word
70	Find a NULL character
<u>\n</u>	Find a new line character



Quantifiers

Quantifier	Description
<u>n+</u>	Matches any string that contains at least one n
<u>n*</u>	Matches any string that contains zero or more occurrences of n
<u>n?</u>	Matches any string that contains zero or one occurrences of n
<u>n{X}</u>	Matches any string that contains a sequence of X n 's
<u>n{X,Y}</u>	Matches any string that contains a sequence of X to Y n 's
<u>n{X,}</u>	Matches any string that contains a sequence of at least $X n$'s
<u>n\$</u>	Matches any string with n at the end of it
<u>^n</u>	Matches any string with n at the beginning of it
<u>?=n</u>	Matches any string that is followed by a specific string n
<u>?!n</u>	Matches any string that is not followed by a specific string <i>n</i>

RegExp Object Properties

Property	Description
constructor	Returns the function that created the RegExp object's prototype
global	Checks whether the "g" modifier is set



RegExp Object Methods

Method	Description
<u>compile()</u>	Deprecated in version 1.5. Compiles a regular expression
<u>exec()</u>	Tests for a match in a string. Returns the first match
test()	Tests for a match in a string. Returns true or false
toString()	Returns the string value of the regular expression

Previous

Next >

Track your progress - it's free!

Sign Up Log in



Tutorials **▼**

Exercises ▼ Services ▼ Q

Sign Up Log in

= .

CSS JAVASCRIPT SQL

PYTHON

JAVA PHP

HOW TO W3.CSS C



JavaScript Learning Resources For Teachers CHECK IT OUT!

COLOR PICKER













PLUS

SPACES

GET CERTIFIED

FOR TEACHERS

FOR BUSINESS

CONTACT US

Top Tutorials

HTML Tutorial CSS Tutorial



= .

Tutorials **▼** Exercises **▼** Services **▼** Sign Up Log in

CSS **JAVASCRIPT** SQL

PYTHON

JAVA

PHP

HOW TO

W3.CSS

C

PHP Tutorial Java Tutorial C++ Tutorial jQuery Tutorial

Top References

HTML Reference CSS Reference JavaScript Reference **SQL** Reference **Python Reference W3.CSS Reference Bootstrap Reference PHP Reference HTML Colors** Java Reference Angular Reference jQuery Reference

Top Examples

HTML Examples CSS Examples JavaScript Examples How To Examples SQL Examples Python Examples W3.CSS Examples Bootstrap Examples PHP Examples **Java Examples** XML Examples jQuery Examples

Get Certified

HTML Certificate CSS Certificate JavaScript Certificate Front End Certificate SQL Certificate **Python Certificate PHP Certificate** jQuery Certificate Java Certificate C++ Certificate C# Certificate **XML** Certificate









FORUM ABOUT ACADEMY

W3Schools is optimized for learning and training. Examples might be simplified to improve reading and learning.

Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness

of all content. While using W3Schools, you agree to have read and accepted our terms of use, cookie and privacy policy.

Copyright 1999-2025 by Refsnes Data. All Rights Reserved. W3Schools is Powered by W3.CSS.