JavaScript RegExp Syntax Cheat Sheet v1.3.4, PDF Download

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PROGRAMMING | JAVASCRIPT

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JavaScript RegExp Syntax /pattern/modifiers; let pattern = /infopediya/i

search, validation, and search and replace functionality in JS programming.

In above example the /infopediya/i is example of JS RegExp.

accepts two parameters the string and modifier.

parameters to new RegExp().

Name

global

Examples

JavaScript RegExp /g Modifier

console.log(result2);

JavaScript RegExp /i Modifier

JavaScript RegExp /m Modifier

let result1 = sample text.match(/^This/mg);

let result2 = sample text.match(/three\$/mg);

let email1 = "email@example.com";

Details

of it)

'text').

let email2 = "email_123_123_123@example.com";

should repeat atleast one time

should repeat zero or more times

x should be a number. Here x is 4.

Not followed by. This is opposite to ?=

used for optional things (zero or one time)

find sequence (e.g /\d{4}/g will find a sequence of 4 digit numbers)

x to y(e.g $/\d{4,6}/g$ will find a sequence of 4 to 6 digit numbers)

at least x (e.g $/\sqrt{d_4}$)/g will find a sequence of at least 4 digit numbers)

at the end of it(e.g The /x\$ /g matches any string with x at the end of it)

at the beginning of it (e.g The $/^x$ /g matches any string with x at the beginning

followed by a specific string (e.g a sample text, here 'sample' is followed by

let result2 = sample text.match(/Lorem/g);

RegExp Syntax Cheat Sheet. How to use JavaScript Regular Expressions?

The /infopediya/ is a pattern and /i is a modifier. we will explain the modifiers in JavaScript

It is easy to create a pattern using the new RegExp(). It creates a new RegExp object. let pattern = new RegExp("Hello World", "g"); console.log(pattern);

Here the pattern variable will give you the " /Hello World/g " as output. The new RegExp

In the above example 'Hello World' is the string pattern and 'g' is a modifier given as the

How to create a pattern using a constructor?

What are modifiers in regular expressions?

For example, if we want to search a case-insensitive piece of text in a paragraph then the Case

The modifiers add a particular behavior/functionality to the whole pattern.

Insensitive flag comes in handy. The symbol for Case Insensitive is " /i ".

The /hello world/i will match " Hello World " as well.

Symbol

Definition

/g searches globally and do not stop on first matching. case matches upper and lower case simultaneously /i insensitive If matching starts with or ends with your condition on each line then it multiline returns the matching string. E.g if the new line starts with 'The' /m (^The) or ends with 'The'(The\$)

Dolor nisi voluptatibus sequi Lorem soluta possimus dolores libero veritatis iste, saepe esse'; let result1 = sample text.match(/Lorem/); console.log(result1);

let sample text = 'Lorem ipsum dolor sit amet consectetur adipisicing elit.

let sample text = 'Lorem ipsum IPSUM dolor sit amet consectetur adipisicing elit. Dolor nisi voluptatibus sequi Lorem soluta possimus dolores libero veritatis iste, saepe esse'; let result1 = sample text.match(/ipsum/g); console.log(result1); let result2 = sample_text.match(/ipsum/gi); console.log(result2);

Note: The /m flage is case sensitive. Use it with /gi to search globally with case insesitive

let sample_text = 'This is paragraph one.\nThis is paragraph two. Paragraph

the @ symbol repeats atleat one time and underscore (_) repeats one or more times. The @ symbol is required but (_) is optional.

\d Find Digits from 0-9 \D Find non-digit character

Find a match at the beginning and at the end of a word

Find NUL character, it returns the position where NULL found.

It is used to find a carriage return character. (It means to return to the beginning of

match the Latin character corresponding to octal number i.e 107 G. It returns NULL

match the Unicode character corresponding to hexadecimal number i.e / \u0057 /

match the Latin character corresponding to hexadecimal number i.e / \x57 / for W. It

used to match single character or every character

Find word character e.g A-z, 0-9, and (_) underscore

List of JavaScript RegExp Metacharacters

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Do not match with the beginning or end of a word e.g. \Bcat will search words \B where it will not start with the cat or 'cat\B' (should not ends with the cat). Find new line character \n used to find a form feed character (returns position). Form feed is a page-breaking

A dot

(.)

W

W

\s

15

16

matches.

three';

console.log(result1);

console.log(result2); What are JavaScript Regular Expression Quantifiers? Quantifiers simply show the quantity. consider the following example.

Now how to set validation rules for such conditions? The Quantifiers resolve this problem. Quantifier ?

{x}

 $\{x, y\}$

 $\{x,\}$

\$

?=

?!

JavaScript RegExp [abc] Expression This expression is used to find any characters given inside the brackets. You can specify simple characters as [abcd].

let str = "This is a sentence.";

let result = str.match(pattern);

JavaScript RegExp . Metacharacter

The dot metacharacter is very powerful, it is used to match:

let str = "Get and set values of variables.";

let str = "Get and set values of variables.";

// Output: ["G", "e", "t", " ", "a", "n", "d", " ", "a", "e", "t", " ", "v",

let pattern = /[^T]/g;

console.log(result);

1: Every single character

consider the following example

let pattern = /.et/g;

console.log(result);

let pattern = /./g;

console.log(result);

let result = str.match(pattern);

let result = str.match(pattern);

Find a non-word character

It searches whitespaces

ASCII control character.

Find a tab character.

on not found.

Match vertical tab character

the line without advancing downward.)

for W. It returns NULL on not found.

It searches non-whitespaces

2: A single character

\f

\r

\t

V

10

\xxx/

\uxxxx

References https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp https://www.w3schools.com/jsref/jsref_obj_regexp.asp

\xdd returns **NULL** on not found.

you can specify any range as from zero to nine [0-9]. Or from uppercase A to lowercase z [A-z]. let str = "This is a sentence."; let pattern = /[T]/g; let result = str.match(pattern); console.log(result); JavaScript RegExp [^abc] Expression This expression is used to find any characters accept given inside the brackets. This is opposite to [abc] Expression.

https://regexr.com/