

Regular Expressions



Regular Expressions

Regular Expressions (Regex) is used for pattern matching or string matching.

They are incredibly useful for tasks involving search, validation, and manipulation of text.

A regex consists of specific characters & symbols that define a search pattern.

In JS regex starts & ends with / slash e.g :
`/regex/r`

RegEx




Expression	Meaning
[abc]	a, b or c
[^abc]	anything except a,b,c
[a-z]	a to z
[A-Z]	A to Z
[a-m]	a to m
[a-zA-Z]	a to z, A to Z
[0-9]	0 to 9
● Full Stop	any character except newline

Quantifiers

Exprsn	Meaning
[]?	Occurs 0 or 1 time
[]+	Occurs 1 or more times
[]*	Occurs 0 or more times
[]{n}	Occurs n times
[]{n,}	Occurs n or more times
[]{y, z}	Occurs atleast y times, but less than z times
ab cd	match ab or cd

@CodeBustler

MetaCharacters

Exprsn	Meaning
<code>\d</code>	Digit [0-9] <small>@CodeBustler</small>
<code>\D</code>	Not digit [^0-9]
<code>\w</code>	Word [a-zA-Z_0-9]
<code>\W</code>	Not word : <code>\w</code> 
<code>\s</code>	whitespace characters newline <code>\n</code> , tab <code>\t</code> , & <code>\r</code>
<code>\S</code>	Not whitespace chars 
<code>\b</code>	Word boundary <code>\bword\b</code> Matches "word"
<code>\B</code>	Not Word boundary 

Groups

Exprsn	Meaning
(abc)	capture group
(?:abc)	non-capturing group
(?=abc)	positive lookahead
(?!abc)	negative lookahead
(?<=abc)	positive lookbehind
(?<!abc)	negative lookbehind
^abc\$ <i>Anchors</i>	starts and ends with "abc". ^ Starts \$ Ends

Flags

Exprsn	It Allows
/.../g	Case Insensitive
/.../i	Global Match
/.../m	Allow Multiline
/.../u	Unicode
/.../y	Sticky
/.../s	DotAll

FOLLOW!