Regular Expressions

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

They are incredibly usaeful 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 & end 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
[ ]?	Occures 0 or 1 time
[ ]+	Occures 1 or more times
[ ]*	Occures 0 or more times
[ ]{n}	Occures n times
[ ]{n,}	Occures n or more times
[ ]{y, z}	Occures alteast y times,but less than z times
ab | cd	match ab or cd

MetaCharacters

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

@CodeBustler

Groups

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

Anchors

Flags

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

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