

RegEx Cheat Sheet

Quantifiers

?	0 or 1 times
*	0 or more times
+	1 or more times
{3}	Exactly 3 times
{3,}	3 or more times
{3,5}	No less than 3 and no more than 5 times

Add a ? to a quantifier to make it reluctant (not greedy) like in a+?.

Character Classes

\s

Whitespace like spaces and tabs

\S

Non-whitespace

\d

Digit

\D

Non-digit

\w

Word character equivalent to [a-zA-Z0-9_]

\W

Non-word character

Groups and Ranges

.	Any character except new line (\n)
a b	a or b
(...)	Group things to work with multipliers
[abc]	Any letter from the list (a or b or c)
[^abc]	Any character that is not a or b or c
[a-q]	A letter anywhere from a to q inclusively
\N	Group number N that was previously found like \1.

Ranges are inclusive.

POSIX character classes	
[[:upper:]]	Upper case letters
[[:lower:]]	Lower case letters
[[:alpha:]]	All letters
[[:digit:]]	Digits
[[:alnum:]]	Digits and letters
[[:xdigit:]]	Hexadecimal digits
[[:punct:]]	Punctuation
[[:blank:]]	Space and tab
[[:space:]]	Blank characters

<code>[:cntrl:]</code>	Control characters
<code>[:graph:]</code>	Printed characters
<code>[:print:]</code>	Printed characters and spaces
<code>[:word:]</code>	Digits, letters and underscore

Escape Sequences

Escape following character

\Q

Begin literal sequence

\E

End literal sequence

**Special
Characters**

\n	New line
\r	Return
\t	Tab
\v	Vertical tab
\f	Form feed
\0xxx	Octal character xxx
\xhhhh	Hex character hhhh

Anchors

(X)	Regular group capturing X
(?X)	Regular group capturing X with name of the group being "name"
(?:X)	Non-capturing group for X
(?=X)	zero-width positive lookahead for X
(?!X)	zero-width negative lookahead for X
(?<=X)	zero-width positive lookbehind for X
(?<!X)	zero-width negative lookbehind for X
(?<X)	independent, non-capturing group for X

Anchors

^	Start of string, or start of line in a multiline pattern
\A	Start of string
\$	End of string, or end of line in a multiline pattern
\Z	End of string
\b	Word boundary
\B	Non-word boundary