A Regular Expressions Summary

Creating:

Standard regex literal	/ / <options></options>
Extended regex literal	%r{ } <options></options>
Formal constructor	Regex.new(' ', 'options')

Regex Options:

i	Case insensitive pattern matching. Default is case sensitive.
0	Substitute once only.
m	Multi-line mode: The special key "." now also matches newlines.
Х	Extended mode: Spaces/newlines allowed to increase readability.
n e u s	Character encoding: One of None, EUC, UTF-8, SJIS. The default encoding is the same as the source encoding.

Special Keys:

•	Any character except a newline (unless in mode m).
^	The beginning of the line or string
\$	The ending of the line or string
\/.^\$() <>?*+	These characters require a \ prefix to appear as themselves in a regular expression.
\A	The beginning of the string.
\b	A word boundary (outside of [] only)
\B	Not a word boundary
\d	A digit (0 through 9).
\D	Not a digit
\h	A hex digit (0 through 9, a through f, and A through F).
\H	Not a hex digit
\s	A white space character (including spaces, tabs, newlines, carriage returns, and form feeds).
\S	Not a white space character.
\w	A word ("C" identifier) character.
\W	Not a word character.
\xHH	An encoded hexadecimal character value.
\ Z	The end of the string.
\Z	The end of the string or line.

Grouping:

abz	Sequence: Expressions a through z in sequence.
a b z	Alternation: One and only one of a or b or etc
(e)	An unnamed group. Also acts as an operator precedence modifier.
(? <name>)</name>	Define a named sub-group. Typically tagged with {0}, see below.
\g <name></name>	Invoke an named sub-group.
[]	Any character from the set of characters in the brackets.
[^]	Any character not in the set of characters in the brackets.

Set Special Keys:

\] \\ \/ \-	A "]", "\", "/", or "-" character.
a-z	A character range.
\b	A backspace (0x08) character (inside a [] only).

Repetition:

r*	Matches r zero or more times.
r*?	Matches r zero or more times (non-greedy).
r+	Matches r one or more times.
r+?	Matches r one or more times (non-greedy).
r?	Matches r zero or one times.
r{M,N}	Matches r M through N times.
r{M,N}?	Matches r M through N times (non-greedy).
r{M,}	Matches r M or more times.
r{,N}	Matches r zero through N times.
r{N}	Matches r exactly N times.

Peeking Outward:

(?=)	A positive look ahead, not part of the match.
(?!)	A negative look ahead, not part of the match.
(?<=)	A positive look behind, not part of the match.
(?)</th <th>A negative look behind, not part of the match.</th>	A negative look behind, not part of the match.

Usage:

pos = regex =~ string #\$PREMATCH \$MATCH \$POSTMATCH
md = regex.match(string) #md.pre_match md.to_s md.post_match
#md[number] fetches the value of an unnamed sub-group.
#md[name] fetches the values of any named sub-groups.

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