Regular Expressions Cheat Sheet

Metacharacters (must be escaped)

Symbol	Meaning
^	Start of string
\$	End of string
()	Grouping
< >	Word boundaries
	Any character
* + ?	Quantifiers
[]	Character class
{ }	Repetition
\	Escape
1	Alternation

Special Characters

Symbol	Meaning
\n	Newline
\r	Carriage return
\t	Tab
\v	Vertical tab
\f	Form feed
\xxx	Octal character
\xhh	Hex character
\v \f \xxx	Vertical tab Form feed Octal character

Quantifiers

Symbol	Meaning
*	0 or more
+	1 or more
?	0 or 1
{3}	Exactly 3
{3,}	3 or more
{3,5}	3 to 5

Pattern Modifiers

g	Global match
i	Case-insensitive
m	Multi-line
S	Dot matches newline
Х	Allow whitespace/comments
е	Evaluate replacement
U	Ungreedy .

Anchors

Symbol	Meaning
^, \A	Start of string
\$, \Z	End of string
\b	Word boundary
\B	Not word boundary
\<, \>	Word boundaries

Assertions

(?=)	Lookahead
(?!)	Negative lookahead
(?<=)	Lookbehind
(?)</td <td>Negative lookbehind</td>	Negative lookbehind
	Atomic group
	Conditional
(?#)	Comment

POSIX Classes

[:upper:]	Uppercase letters
[:lower:]	Lowercase letters
[:alpha:]	All letters
[:alnum:]	Letters and digits
[:digit:]	Digits
[:xdigit:]	Hex digits
[:punct:]	Punctuation
[:space:]	Space characters
[:word:]	Letters, digits, underscore

Replacement Tokens

\$n	nth non-passive group
\$1, \$2	Match from group 1, 2
\$`	Before match
\$'	After match
\$+	Last match
\$&	Entire match

Character Classes

Symbol	Meaning
\c	Control character
\s, \S	Whitespace / not whitespace
\d, \D	Digit / not digit
\w, \W	Word / not word
\x, \0	Hex / Octal digit

Sample Patterns

([A-Za-z0-9-]+)	Alphanumeric +
hyphens (\d{1,2}/\d{1,2}/\d{4})	Date (e.g.
21/3/2006) ([^\s]+(?=\.(jpg gif png))\.\2)	Image extensions
(^[1-9]\$ ^[1-4][0-9]\$ ^50\$) (#?([A-Fa-f0-9]){3,6})	Number -150 Hex color code
(?=.*\d)(?=.*[a-z])(?=.*[A-Z])	Strong password
(\w+@[a-zA-Z_]+?\.[a-zA-Z]{2,6}) (\<(/?[^\>]+)\>)	Email HTML tags