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

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
(?)</th <th>Negative lookbehind</th>	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 \$1 \$2	nth non-passive group
\$`	Match from group 1, 2 Before match After match Last match Entire 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-]+) hyphens	Alphanumeric +
$(\d{1,2}/\d{1,2}/\d{4})$	Date (e.g.
21/3/2006) ([^\s]+(?=\.(jpg gif png))\.\2)	Image extensions
(^[1-9]\$ ^[1-4][0-9]\$ ^50\$)	Number -150
(#?([A-Fa-f0-9]){3,6}) (?=.*\d)(?=.*[a-z])(?=.*[A-Z])	Hex color code Strong password
(\w+@[a-zA-Z_]+?\.[a-zA-Z]{2,6}) (\<(/?[^\>]+)\>)	Email HTML tags
(\< (/ : [\>] + / \>)	TITIL Cays