

# **NSRegularExpression Cheat Sheet and Quick Reference**

### **Special Characters**

* ?	+ [	(	) { }	^ \$	\ . /	/
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## **Operators**

	Or		
*	0 or more times. Match as many times as possible.		
+	1 or more times. Match as many times as possible.		
?	0 or 1 times. Prefer 1.		
*?	0 or more times. Match as few times as possible.		
+?	1 or more times. Match as few times as possible.		
??	0 or 1 times. Prefer 0.		
*+	0 or more times. Match as many times as possible when first encountered, do not retry with fewer even if overall match fails (Possessive Match).		
++	1 or more times. Possessive match.		
?+	0 or 1 times. Possessive match.		
{n} {n}? {n}+	Exactly n times.		
{n,}	n or more.		
{n,}?	At least n times, but no more than required for an overall pattern match.		
{n,m}	Between n and m times.		
{n,m}?	Between n and m times. Match as few times as possible, but not less than n.		

#### **Anchors**

^	Beginning of a line.	
\$	End of a line.	
\A	Beginning of an input. Doesn't match after a new line within the input.	
\z	End of input.	
\z	End of input, but before the final line terminator, if one exists.	
•	Any character.	
\	Quote (escape) following character.	

#### **Others**

\$n	n is a digit. Back referencing to a capture group. n must be >= 0 and not greater than the number of capture groups. \$ not followed by a digit has no special meaning.
\	Treat the following character as a literal, suppressing any special meaning.

#### **Character Classes**

\b	Word boundary, if outside of a [Set]. BACKSPACE, if within a [Set].	
\B	Not word boundary.	
\s	White space character.	
\s	Non-white space character.	
\d	Digit character.	
\D	Non-digit character.	
\w	Word character.	
\W	Non-word character.	

# **Groups and Ranges**

()	Capturing parentheses (capturing group).
(?:)	Non-capturing parentheses. Matches but doesn't capture.
	Somewhat more efficient than capturing parentheses.
(?!)	Negative look-ahead. True if the parenthesized pattern does
	not match at the current input position.
[]	Any one character in the set.
[^]	Negated set. Not any one in the set.

## **Useful Examples**

m[^o] matches any "m" followed by anything other than "o"
m(?!o) matches any "m" (and only "m") not followed by "o"
$(? <=,  ^{})([^{},] *)(, 1)+(?=,   $)$ matches consecutive duplicates from a comma-delimited list <sup>1</sup>
$<([a-z][a-z0-9]*)\b[^>]*>(.*?) matches any HTML or XML tags1$
<sup>1</sup> From http://www.regular-expressions.info/duplicatelines.html by Jan Goyvaerts.