Regular Expressions [REGEX] Reference Sheet

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Character

[set] – in the set of

[^set] - not in the set of

[a-z] - in the a - z range

 $[^a=z]$ – not in the range

 \cdot – any character except n (new line)

\char-escape special character

Control Characters

\t-horizontal tab

\v - vertical tab

\b − backspace

 $\ensuremath{\backslash e} - escape$

\r - carriage return

 \mathbf{f} – form feed

n - new line

 \adjust{a} – bell (alarm)

\c char - ASCII control character

Anchors

^ – start of string/ line in multi-line pattern

 \A – start of string

\$ – end of string

 \z – end of string

\b − word boundary

 \B – not word boundary

\< - start of word

 \gt – end of word

Character Classes

\c - control character

 \slash = white space

 \slash s – not white space

 $\d - digit$

 $\ \ - not digit$

 $\w-$ word

\x − hexadecimal digit

\o−octal digit

\p{ctgry} - in the Unicode category/block

\P{ctgry} - not in Unicode category/block

POSIX

[:upper:] - upper case letters

[:lower:] - lower case letters

[:alpha:] - all letters

[:alnum:] - all letters

[:digit:] - digits

[:xdigit:] - hexadecimal digits

[:punct:] - punctuation

[:blank:] – space and tab

[:space:] - blank characters

[:cntrl:] - control characters

[:graph:] - printed characters

[:print:] - printed characters and spaces

[:word:] - digits, letters, and underscore

Assertions

?= - lookahead assertion

?! – negative lookahead

?<= - lookbehind assertion

?!= or ?<! - negative lookbehind

?> - once-only subexpression

? () – condition [if then]

?()! - condition [if then else]

?# - comment

Substitution

\$n - substring matched by group number n

\${name} - substring matched by group name

\$\$ - literal \$ character

\$ & - copy of whole match

s` – text before the match

\$' - text after the match

\$+ - last captured group

\$_ - entire input string

Inline Options

i-case-insensitive

m - multiline mode

n – explicit (named)

s – single-line mode

 \mathbf{x} – ignore white space

Quantifiers

£		
GREEDY	LAZY	MATCHES
*	*?	0 or more times
+	+?	1 or more times
?	??	0 or 1 time
{n}	{n}?	Exactly n times
{n,}	{n,}?	At least n times
{n,m}	{n,m}?	n to m times

Alternation

a | b-either a or b

(?(exp) yes | no) yes if exp is matched no if exp isn't matched

(?(name) yes | no) yes if name is matched

no if name isn't matched