
Lab One – Regex Cheat Sheet

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a	An ordinary character stands for itself.
\emptyset	The empty string.
$M \mid N$	Another way to write the empty string.
$M \cdot N$	Alternation, choosing from M or N.
MN	Concatenation, an M followed by an N.
M^*	Another way to write concatenation.
M^+	Repetition (zero or more times).
$M^?$	Repetition, one or more times.
$[a - zA - Z]$	Optional, zero or one occurrence of M.
.	Character set alternation.
"a.+*"	A period stands for any single character except newline.
	Quotation, a string in quotes stands for itself literally.

Regex Notation

if	IF
$[a-z][a-z0-9]^*$	ID
$[0-9]^+$	NUM
$([0-9]^+ \cdot "[0-9]^*" ([0-9]^* \cdot "[0-9]^+)$	REAL
$("--"[a-z]^*\backslash n") (" " "\n" "\t")^+$	ERROR