

Anchors	
<b>^</b>	Start of line
<b>\$</b>	End of line
<b>\A</b>	Start of string
<b>\Z</b>	End of string
<b>\b</b>	Word boundary
<b>\B</b>	Not word boundary
<b>\&lt;</b>	Start of word
<b>\&gt;</b>	End of word

Character Classes	
<b>\c</b>	Control character
<b>\s</b>	White space
<b>\S</b>	Not white space
<b>\d</b>	Digit
<b>\D</b>	Not digit
<b>\w</b>	Word
<b>\W</b>	Not word
<b>\hhh</b>	Hexadecimal digit
<b>\Oxxx</b>	Octal digit

POSIX	
<b>[:upper:]</b>	Upper case
<b>[:lower:]</b>	Lower case
<b>[:alpha:]</b>	All letters
<b>[:alnum:]</b>	All letters and digits
<b>[:digit:]</b>	All digits
<b>[:punct:]</b>	[!"#\$%&'()*+,-./:;<=>?@[ \\\]^_`{ }~]
<b>[:blank:]</b>	Space and Tab
<b>[:space:]</b>	Blank characters [ \t\r\n \v\f]
<b>[:cntrl:]</b>	Control Characters [\x00- \x1F \x7F]
<b>[:graph:]</b>	all except <b>[:space:]</b> and <b>[:cntrl:]</b>
<b>[:print:]</b>	all except <b>[:cntrl:]</b>

POSIX (cont)	
<b>[:word:]</b>	[A-Za-z0-9_]

Assertions	
<b>?=</b>	Lookahead
<b>?!</b>	Negative lookahead
<b>?&lt;=</b>	Lookbehind assertion
<b>?!= or ?&lt;!</b>	negative lookbehind
<b>?&gt;</b>	Once-only subexpression
<b>?()</b>	Condition If then
<b>?() </b>	Condition If then else

Ex: `test(?= word)` will match `test` only if it's followed by " `word`". the match return will be `test` string only

Quantifiers (match previous item x times)	
<b>*</b>	0 or more
<b>+</b>	1 or more
<b>?</b>	0 or 1
<b>{5}</b>	Exactly 5
<b>{,5}</b>	0, 1, 2, 3, 4 and 5
<b>{5,}</b>	5 or more
<b>{2,5}</b>	2, 3, 4 or 5
<b>*? ,+?, ??,</b>	Same as above but lazy (match as few characters as possible)
<b>{2,5}?</b>	



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