

## **Anchors**

<b>^</b>	Start of string or line
<b>\A</b>	Start of string
<b>\$</b>	End of string or line
<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>	Whitespace
<b>\S</b>	Not Whitespace
<b>\d</b>	Digit
<b>\D</b>	Not digit
<b>\w</b>	Word
<b>\W</b>	Not Word
<b>\x</b>	Hexadecimal digit
<b>\0</b>	Octal Digit

## **POSIX Classes**

<b>[ :upper: ]</b>	Uppercase letters [A-Z]
<b>[ :lower: ]</b>	Lowercase letters [a-z]
<b>[ :alpha: ]</b>	All letters [A-Za-z]
<b>[ :alnum: ]</b>	Digits and letters [A-Za-z0-9]
<b>[ :digit: ]</b>	Digits [0-9]
<b>[ :xdigit: ]</b>	Hexadecimal digits [0-9a-f]
<b>[ :punct: ]</b>	Punctuation
<b>[ :blank: ]</b>	Space and tab [ \t]
<b>[ :space: ]</b>	Blank characters [ \t\r\n\v\f]
<b>[ :cntrl: ]</b>	Control characters [\x00-\x1F\x7F]
<b>[ :graph: ]</b>	Printed characters [\x21-\x7E]
<b>[ :print: ]</b>	Printed characters and spaces [\x20-\x7E]
<b>[ :word: ]</b>	Digits, letters and underscore

## **Pattern Modifiers**

<b>//g</b>	Global Match (all occurrences)
<b>//i</b>	Case-insensitive
<b>//m</b>	Multiple line
<b>//s</b>	Treat string as single line
<b>//x</b>	Allow comments and whitespace
<b>//e</b>	Evaluate replacement
<b>//U</b>	Ungreedy pattern

## **Escape Sequences**

<b>\</b>	Escape following character
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**\Q** Begin literal sequence

**\E** End literal sequence

## **Quantifiers**

<b>*</b>	0 or more
<b>+</b>	1 or more
<b>?</b>	0 or 1 (optional)
<b>{3}</b>	Exactly 3
<b>{3,}</b>	3 or more
<b>{2,5}</b>	2, 3, 4 or 5

## **Groups and Ranges**

<b>.</b>	Any character except newline (\n)
<b>(a b)</b>	a or b
<b>(...)</b>	Group
<b>(?:...)</b>	Passive (non-capturing) group
<b>[abc]</b>	Single character (a or b or c)
<b>[^abc]</b>	Single character (not a or b or c)
<b>[a-q]</b>	Single character range (a or b ... or q)
<b>[A-Z]</b>	Single character range (A or B ... or Z)
<b>[0-9]</b>	Single digit from 0 to 9

## **Assertions**

<b>?=</b>	Lookahead assertion
<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]
<b>?#</b>	Comment

## **Special Characters**

<b>\n</b>	New line
<b>\r</b>	Carriage return
<b>\t</b>	Tab
<b>\v</b>	Vertical tab
<b>\f</b>	Form feed
<b>\ooo</b>	Octal character
<b>\xhh</b>	Hex character

## **String Replacement**

<b>\$n</b>	n-th non-passive group
<b>\$2</b>	"xyz" in /^(abc(xyz))\$/
<b>\$1</b>	"xyz" in /^(?:abc)(xyz)\$/
<b>\$`</b>	Before matched string
<b>\$'</b>	After matched string
<b>\$+</b>	Last matched string
<b>\$&amp;</b>	Entire matched string

