

Regular Expression Quick Reference

Match pattern

Special characters

<code>.</code>	Need to be escaped with a backslash ( <code>\</code> ) to match the actual character
<code>( ) [ ] { }  </code>	
<ul style="list-style-type: none"><li>Any other character</li></ul>	matches itself
<code>.</code>	Matches one of any character
<code>(...)</code>	Groups elements into a single element (also captures contents)
<code>(?:...)</code>	Groups elements into a single element (doesn't capture contents)
<code>(... ... ...)</code>	Matches one of the alternatives

Character classes

<code>[abc]</code>	Matches any character (same as <code>(a b c)</code> )
<code>[^abc]</code>	Matches any other character
<ul style="list-style-type: none"><li>Only <code>^ - \ ]</code> need to be escaped inside a character class</li><li>May include simple ranges (eg, <code>[a-z123A-F]</code>)</li></ul>	
<code>\d</code>	Matches digits (same as <code>[0-9]</code> )
<code>\D</code>	Matches non-digits (same as <code>[^0-9]</code> )
<code>\w</code>	Matches alphanumeric (same as <code>[a-zA-Z0-9_]</code> )
<code>\W</code>	Matches non-alphanumeric (same as <code>[^a-zA-Z0-9_]</code> )
<code>\s</code>	Matches whitespace (same as <code>[ ]</code> )*
<code>\S</code>	Matches non-whitespace (same as <code>[^ ]</code> )*
* In <i>RegexRenamer</i> the only relevant whitespace character is the space character	

Anchors

<ul style="list-style-type: none"><li>Anchors match the position between characters, not the characters themselves</li></ul>	
<code>^</code>	Matches the position at the beginning of the line
<code>\$</code>	Matches the position at the end of the line
<code>\b</code>	Matches the position between a <code>\w\W</code> or <code>\W\w</code> (word boundary)*
<code>\B</code>	Matches the position between a <code>\w\w</code> or <code>\W\W</code> (non-word boundary)
* <code>\b</code> also matches at the beginning and end of a line	

Quantifiers

<ul style="list-style-type: none"><li>Quantifiers are normally greedy (match as much as possible)</li><li>When followed by <code>?</code> they become lazy (match as little as possible)</li></ul>	
<code>?</code>	Match the previous element zero or one times (one if possible)
<code>??</code>	Match the previous element zero or one times (zero if possible)
<code>+</code>	Match the previous element one or more times (as many as possible)
<code>+</code>	Match the previous element one or more times (as few as possible)
<code>*</code>	Match the previous element zero or more times (as many as possible)
<code>*</code>	Match the previous element zero or more times (as few as possible)
<code>{n}</code>	Match the previous element exactly <i>n</i> times
<code>{n,}</code>	Match the previous element at least <i>n</i> times (as many as possible)
<code>{n,}? </code>	Match the previous element at least <i>n</i> times (as few as possible)
<code>{n,m}</code>	Match the previous element between <i>n</i> - <i>m</i> times (as many as possible)
<code>{n,m}?</code>	Match the previous element between <i>n</i> - <i>m</i> times (as few as possible)

Unnamed captures

<code>(...)</code>	Capture text matched between parentheses to an unnamed capture
<code>\n</code>	Match the text in capture # <i>n</i> , captured earlier in the match pattern
<ul style="list-style-type: none"><li>The order of unnamed captures are defined by the order of the opening parentheses: <i>(reg) ex (re) (name) r</i> — #1 = <i>reg</i>, #2 = <i>renamer</i>, #3 = <i>re</i>, #4 = <i>name</i></li><li><i>n</i> &gt; 9 is only available if you have more than 9 captures</li></ul>	

Named captures

<code>(?&lt;foo&gt;...)</code>	Capture text matched between parentheses to a capture named " <i>foo</i> "
<code>\&lt;foo&gt;</code>	Match the text in capture " <i>foo</i> ", captured earlier in the match pattern

Lookaround

<code>(?=...)</code>	Positive lookahead (match the position before the specified regex)
<code>(?!...)</code>	Negative lookahead (don't match, as above)
<code>(?&lt;=...)</code>	Positive lookbehind (match the position after the specified regex)
<code>(?&lt;!=...)</code>	Negative lookbehind (don't match, as above)

Alternation

<code>(? (test) true)</code>	If positive lookahead <i>test</i> matches, match <i>true</i> regex
<code>(? (test) true   false)</code>	As above, otherwise match <i>false</i> regex
<code>(? (capture) true)</code>	If <i>capture</i> (name or number) contains text, match <i>true</i> regex
<code>(? (capture) true   false)</code>	As above, otherwise match <i>false</i> regex

Inline modifiers

<code>(?x)</code>	Turn on modifier <i>x</i> until the end of the containing group
<code>(?-x)</code>	Turn off modifier <i>x</i> until the end of the containing group
<code>(?x:...)</code>	Turn on modifier <i>x</i> for the section
<code>(?-x:...)</code>	Turn off modifier <i>x</i> for the section
<ul style="list-style-type: none"><li>Relevant <b>modifiers</b> are <code>i</code> (ignore case) and <code>x</code> (extended regex).</li><li>You may group more than one modifier together</li></ul>	

Replace pattern

Any text other than the variables below will be replaced as-is.

Special variables

<code>\$n</code>	Insert the contents of unnamed capture # <i>n</i>
<code>\${foo}</code>	Insert the contents of named capture " <i>foo</i> "
<code>\$0</code>	Insert all text matched in the regex (automatic unnamed capture)
<code>\$` (backtick)</code>	Insert text before <code>\$0</code>
<code>\$' (single-quote)</code>	Insert text after <code>\$0</code>
<code>\$_</code>	Insert the entire original filename (same as <code>\$`\$0\$'</code> )
<code>\$#</code>	Insert a number sequence (see <a href="#">Numbering</a> )

\$\$

Insert an actual \$ character (therefore, \$\$# to insert actual \$#)

- For unnamed captures, use \$(n) if the following character is an actual digit
- n > 9 is only available if you have more than 9 captures

