

Regular Expressions Cheat Sheet

by Dave Child (DaveChild) via cheatography.com/1/cs/5/

Anchors Start of string, or start of line in multiline pattern Start of string End of string, or end of line in multi-line pattern ١Z End of string \b Word boundary Not word boundary ∖B Start of word End of word

| Character Classes | | | |
|-------------------|-------------------|--|--|
| /c | Control character | | |
| \s | White space | | |
| \S | Not white space | | |
| \d | Digit | | |
| \D | Not digit | | |
| \w | Word | | |
| \W | Not word | | |
| \x | Hexadecimal digit | | |
| \O | Octal digit | | |

| POSIX | |
|------------|--------------------------------|
| [:upper:] | Upper case letters |
| [:lower:] | Lower case letters |
| [:alpha:] | All letters |
| [:alnum:] | Digits and 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 ? </td <td>Negative lookbehind</td> | Negative lookbehind |
| ?> | Once-only Subexpression |
| ?() | Condition [if then] |
| ?() | Condition [if then else] |
| ?# | Comment |

| Quantifiers | | | | |
|--|-----------|-------|-----------|--|
| * | 0 or more | {3} | Exactly 3 | |
| + | 1 or more | {3,} | 3 or more | |
| ? | 0 or 1 | {3,5} | 3, 4 or 5 | |
| Add a ? to a quantifier to make it ungreedy. | | | | |

| Escape Sequences | | | | |
|------------------|----------------------------|--|--|--|
| \ | Escape following character | | | |
| \Q | Begin literal sequence | | | |
| \E | End literal sequence | | | |
| "F | [| | | |

"Escaping" is a way of treating characters which have a special meaning in regular expressions literally, rather than as special characters.

| Common Metacharacters | | | | |
|-----------------------------------|---|---|----|--|
| ٨ | [| | \$ | |
| { | * | (| \ | |
| + |) | | ? | |
| < | > | | | |
| The escape character is usually \ | | | | |

| Special Characters | | | |
|--------------------|---------------------|--|--|
| \n | New line | | |
| \r | Carriage return | | |
| \t | Tab | | |
| \v | Vertical tab | | |
| \f | Form feed | | |
| \xxx | Octal character xxx | | |
| \xhh | Hex character hh | | |

| Groups | s and Ranges | | | |
|--------|------------------------------------|--|--|--|
| | Any character except new line (\n) | | | |
| (a b) | a or b | | | |
| () | Group | | | |
| (?:) | Passive (non-capturing) group | | | |
| [abc] | Range (a or b or c) | | | |
| [^abc] | Not (a or b or c) | | | |
| [a-q] | Lower case letter from a to q | | | |
| [A-Q] | Upper case letter from A to Q | | | |
| [0-7] | Digit from 0 to 7 | | | |
| \x | Group/subpattern number "x" | | | |
| Ranges | are inclusive. | | | |

| Pattern Modifiers | | | |
|-------------------|--|--|--|
| g | Global match | | |
| i * | Case-insensitive | | |
| m * | Multiple lines | | |
| s * | Treat string as single line | | |
| X * | Allow comments and whitespace in pattern | | |
| e * | Evaluate replacement | | |
| | | | |

Ungreedy pattern

* PCRE modifier

| String Replacement | | | |
|--|----------------------------|--|--|
| \$n | nth non-passive group | | |
| \$2 | "xyz" in /^(abc(xyz))\$/ | | |
| \$1 | "xyz" in /^(?:abc)(xyz)\$/ | | |
| \$` | Before matched string | | |
| \$' | After matched string | | |
| \$+ | Last matched string | | |
| \$& | Entire matched string | | |
| Some regex implementations use \ instead | | | |
| of \$. | | | |

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| \xxx | Octal character xxx | | |
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By Dave Child (DaveChild) cheatography.com/davechild/ www.getpostcookie.com

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