

Regular Expressions Cheat Sheet

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

Anchors A Start of string, or start of line in multiline pattern A Start of string End of string, or end of line in multi-line pattern End of string Word boundary Not word boundary 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 Subexpress |
| ?() | Condition [if then] |
| ?() | Condition [if then else] |
| ?# | Comment |
| | |

| Gu | anuncis | | |
|----|-----------------|--------------|------------------|
| * | 0 or more | {3} | Exactly 3 |
| + | 1 or more | {3,} | 3 or more |
| ? | 0 or 1 | {3,5} | 3, 4 or 5 |
| Ad | d a ? to a quan | tifier to ma | ake it ungreedy. |

| Escap | Escape Sequences | | |
|-------|----------------------------|--|--|
| \ | Escape following character | | |
| \Q | Begin literal sequence | | |
| \E | End literal sequence | | |
| | | | |

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

| Comm | on Metach | aracters | | |
|-----------------------------------|-----------|----------|----|--|
| ٨ | [| | \$ | |
| { | * | (| \ | |
| + |) | I | ? | |
| < | > | | | |
| 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 | Special Characters | | |
|---|--------------------|---------------------|--|
| \t Tab \v Vertical tab \f Form feed \xxx Octal character xxx | \n | New line | |
| \v Vertical tab \f Form feed \xxx Octal character xxx | \r | Carriage return | |
| \f Form feed \xxx Octal character xxx | \t | Tab | |
| \xxx Octal character xxx | \v | Vertical tab | |
| | \f | Form feed | |
| \vhh Hov character hh | \xxx | Octal character xxx | |
| VIIII HEX CHARACTER IIII | \xhh | Hex character hh | |

| Groups | 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 | |
| U * | Ungreedy pattern | |

* PCRE modifier

| Strin | g 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 of \$. | e regex implementations use \ instead |



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