

Regex Cheat Sheet

Probably the Best Regular Expression Cheat Sheet on the Net

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The most commonly used metacharacters in Python, PHP, Perl, JavaScript, and Ruby

Download as PDF  (<http://regexcheatsheet.com/pdf/RegexCheatSheet-Python-PHP-Perl-JavaScript-Ruby.pdf>)

Metacharacter	Meaning
\n	Newline
[...]	Range or <i>character class</i>
[^...]	Not in range or <i>negated character class</i>
.	(<i>dot</i> or <i>point</i>) Any character except newline
\w	Word character [a-zA-Z0-9_]
\W	Nonword character [^a-zA-Z0-9_]
\d	Digit character [0-9]
\D	Nondigit character [^0-9]
\s	Whitespace character [\n\r\t]
\S	Nonwhitespace character [^\n\r\t]
^	(<i>caret</i>) The start of the line of text
\$	(<i>dollar</i>) The end of the line of text
\b	Word boundary
\B	Not-word-boundary
i	Case-insensitive matching
m	^ and \$ match next to embedded \n
(...)	Group subpattern and capture submatch into \1, \2, ..
\n	Contains the result of nth earlier submatch from a parentheses capture group, or a named capture group
*	(<i>asterisk</i> or <i>star</i>) Match 0 or more times
+	(<i>plus</i>) Match 1 or more times
?	(<i>question mark</i>) Match 1 or 0 times
{n}	Match exactly n times

Python, PHP, Perl, JavaScript, and Ruby Supported Metacharacters

Download as PDF  (<http://regexcheatsheet.com/pdf/RegexCheatSheet-Meta-Python-PHP-Perl.pdf>)

Metacharacters	Meaning	Python	PHP	Perl	JavaScript	Ruby
\a	Alert	✓	✓	✓		✓
\b	Backspace	✓	✓	✓	✓	✓
\n	Newline	✓	✓	✓	✓	✓
\r	Carriage return	✓	✓	✓	✓	✓
\f	Form feed	✓	✓	✓	✓	✓
\t	Horizontal tab	✓	✓	✓	✓	✓
\octal	Character specified by a three-digit octal code	✓	✓	✓		
[...]	Range or <i>character class</i>	✓	✓	✓	✓	✓
[^...]	Not in range or <i>negated character class</i>	✓	✓	✓	✓	✓
.	(<i>dot or point</i>) Any character except newline	✓	✓	✓	✓	✓
\w	Word character [a-zA-Z0-9_]	✓	✓	✓	✓	✓
\W	Nonword character [^a-zA-Z0-9_]	✓	✓	✓	✓	✓
\d	Digit character [0-9]	✓	✓	✓	✓	✓
\D	Nondigit character [^0-9]	✓	✓	✓	✓	✓
\s	Whitespace character [\n\r\f\t]	✓	✓	✓	✓	✓
\S	Nonwhitespace character [^\n\r\f\t]	✓	✓	✓	✓	✓
^	(<i>caret</i>) The start of the line of text	✓	✓	✓	✓	✓
\A	Start of search string, in all match modes	✓	✓	✓		✓
\$	(<i>dollar</i>) The end of the line of text	✓	✓	✓	✓	✓
\Z	End of string, or the point before a string-ending newline, in any match mode	✓	✓	✓		✓
\b	Word boundary	✓	✓	✓	✓	✓
\B	Not-word-boundary	✓	✓	✓	✓	✓
(?=...)	Positive lookahead	✓	✓	✓	✓	✓
(?!...)	Negative lookahead	✓	✓	✓	✓	✓
(?<=...)	Positive lookbehind	✓	✓	✓		✓
(?<!...)	Negative lookbehind	✓	✓	✓		✓
i	Case-insensitive matching	✓	✓	✓	✓	✓
m	^ and \$ match next to embedded \n	✓	✓	✓	✓	✓
s	Dot (.) matches newline	✓	✓	✓		

Metacharacters	Meaning	Python	PHP	Perl	JavaScript	Ruby
x	Ignore whitespace, and allow comments (#) in pattern	✓	✓	✓		✓
(?mode)	Turn list modes on for the rest of the subexpression	✓	✓	✓		
(?#...)	Treat substring as a comment	✓	✓	✓		✓
#...	Rest of the line is treated as a comment in x mode	✓	✓	✓		✓
(...)	Group subpattern and capture submatch into \1, \2, ..	✓	✓	✓	✓	✓
\n	Contains the result of nth earlier submatch from a parentheses capture group, or a named capture group	✓	✓	✓	✓	✓
(?:...)	Groups subpattern, but does not capture submatch	✓	✓	✓	✓	✓
... ...	Try subpatterns in alternation	✓	✓	✓	✓	✓
*	<i>(asterisk or star)</i> Match 0 or more times	✓	✓	✓	✓	✓
+	<i>(plus)</i> Match 1 or more times	✓	✓	✓	✓	✓
?	<i>(question mark)</i> Match 1 or 0 times	✓	✓	✓	✓	✓
{n}	Match exactly n times	✓	✓	✓	✓	✓
{n,}	Match at least n times		✓	✓	✓	✓
{x,y}	Match at least x times, but no more than y times	✓	✓	✓	✓	✓
*?	Match 0 or more times, but a few times as possible	✓	✓	✓	✓	✓
+?	Match 1 or more times, but a few times as possible	✓	✓	✓	✓	✓
??	Match 0 or 1 times, but as few times as possible	✓	✓	✓	✓	✓
{x,y}?	Match at least x times, no more than y times, and as few times as possible	✓	✓	✓	✓	✓

Useful Links

Python

v2.7.x Regular Expressions (<http://docs.python.org/library/re.html>)
v3.2.x Regular Expressions (<http://docs.python.org/py3k/library/re.html>)
v2.7.x Regular Expression HOWTO (<http://docs.python.org/howto/regex.html>)
v3.3x Regular Expression HOWTO (<http://docs.python.org/dev/howto/regex.html>)

PHP

PCRE (<http://www.php.net/manual/en/book.pcre.php>) - Perl Compatible Regular Expressions
PCRE Functions (<http://www.php.net/manual/en/ref.pcre.php>)
POSIX Regex (<http://www.php.net/manual/en/book.regex.php>) - Portable Operating System Interface Regex
POSIX Regex Functions (<http://www.php.net/manual/en/ref.regex.php>)

Perl

perlre (<http://perldoc.perl.org/perlre.html>)
perlfac6 (<http://perldoc.perl.org/perlfac6.html>)
perlretut (<http://perldoc.perl.org/perlretut.html>)
perlref (<http://perldoc.perl.org/perlref.html>)

`perlreapi` (<http://perldoc.perl.org/perlreapi.html>)

`perlreguts` (<http://perldoc.perl.org/perlreguts.html>)

`perlrequick` (<http://perldoc.perl.org/perlrequick.html>)

`perlrebackslash` (<http://perldoc.perl.org/perlrebackslash.html>)

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