

## Regular Expressions Cheat Sheet

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

Anchors		
٨	Start of string, or start of line in multi- line pattern	
\A	Start of string	
\$	End of string, or end of line in multi-line pattern	
\Z	End of string	
\b	Word boundary	
\B	Not word boundary	
\<	Start of word	

End of word

Charac	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

	By Dave Child (DaveChild)
	cheatography.com/davechild/
- ASE	aloneonahill.com

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.			

Esca	Escape Sequences		
\	Escape following character		
\Q	Begin literal sequence		
\E	End literal sequence		
whic	aping" is a way of treating characters h have a special meaning in regular essions literally, rather than as special		

Comn	non Metach	aracters	
٨	[		\$
{	*	(	\
+	)	1	?
<	>		
The es	scape chara	cter is usua	ally \
Special Characters			

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

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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"	

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	
* PC	RE modifier	

Ranges are inclusive.

\$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 \$.	String Replacement	
\$1 "xyz" in /^(?:abc)(xyz)\$/ \$` Before matched string \$' After matched string \$+ Last matched string \$& Entire matched string  Some regex implementations use \ instead	\$n	nth non-passive group
\$` Before matched string \$' After matched string \$+ Last matched string \$& Entire matched string Some regex implementations use \ instead	\$2	"xyz" in /^(abc(xyz))\$/
\$' After matched string \$+ Last matched string \$& Entire matched string  Some regex implementations use \ instead	\$1	"xyz" in /^(?:abc)(xyz)\$/
\$+ Last matched string  \$& Entire matched string  Some regex implementations use \ instead	\$`	Before matched string
\$& Entire matched string  Some regex implementations use \ instead	\$'	After matched string
Some regex implementations use \ instead	\$+	Last matched string
0 1	\$&	Entire matched string
0 1		

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