

### python regular expression (regex) Cheat Sheet by mutanclan (mutanclan) via cheatography.com/79625/cs/19404/

Special characters		
	Default: Match any character except newline	
	DOTALL: Match any character including newline	
٨	Default: Match the start of a string	
٨	MULTILINE: Match immediatly after each newline	
\$	Match the end of a string	
\$	MULTILINE: Also match before a newline	
*	Match 0 or more repetitions of RE	
+	Match 1 or more repetitions of RE	
?	Match 0 or 1 repetitions of RE	
*?, *+, ??	Match non-greedy as <i>few</i> characters as possible	
{m}	Match exactly <i>m</i> copies of the previous RE	
{m,n}	Match from $m$ to $n$ repetitions of RE	
{m,n}?	Match non-greedy	
\	Escape special characters	
	Match a set of characters	
I	RE1 RE2: Match either RE1 or RE2 non-greedy	
()	Match RE inside parantheses and indicate start and end of a group	
With RE is the resulting regular expression.		
Special characters must be escaped with \ if it should match the character literally		

Methods of 're	e' module
re.compile( pattern, flags=0)	Compile a regular expression pattern into a regular expression object. Can be used with <i>match()</i> , <i>search()</i> and others
re.search( pattern, string, flags=0	Search through <i>string</i> matching the first location of the RE. Returns a <b>match</b> object or <b>None</b>
re.match( pattern, string, flags=0)	If zero or more characters at the beginning of a string match <i>pattern</i> return a <b>match object</b> or <b>None</b>
re.fullmatch( pattern, string, flags=0)	If the whole <i>string</i> matches the <i>pattern</i> return a <b>match object</b> or <b>None</b>
re.split( pattern, string, maxsplit=0, flags=0)	Split <i>string</i> by the occurrences of <i>pattern maxsplit</i> times if non-zero. Returns a <b>list</b> of all groups.
re.findall( pattern, string, flags=0)	Return all non-overlapping matches of <i>pattern</i> in <i>string</i> as <b>list</b> of strings.
re.finditer( pattern, string, flags=0)	Return an <b>iterator</b> yielding <b>match objects</b> over all non-overlapping matches for the <i>pattern</i> in <i>string</i>

Methods of 're' module (cont)			
re.sub( pattern, repl, string, count=0, flags=0)	Return the <b>string</b> obtained by replacing the leftmost non-overlapping occurrences of pattern in string by the replacement repl. repl can be a function.		
re.subn( pattern, repl, string, count=0, flags=0)	Like <b>sub</b> but return a tuple (new_string, number_of_subs_made)		
re. <b>escape</b> ( pattern)	Escape special characters in pattern		
re.purge()	Clear the regular expression cache		

#### **Raw String Notation**

<re.Match object; span=(0, 4), mat

### Reference

https://docs.python.org/3/howto/regex.html https://docs.python.org/3/library/re.html

Ext	0	٠ci	~	-
	СΙ	ısı	OΙ	15

(?)	This is the start of an extension
(? aiLmsux)	The letters set the correspondig flags <i>See flags</i>
(?:)	A non-capturing version of regular parantheses



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Extensions (cont)		Match objects		Match objects (cont)	
(?P <na- me&gt;)</na- 	Like regular paranthes but with a <i>named</i> group	Match.expand( template)	Return the string obtained by backslash substitution on <i>ter</i> done by the <b>sub()</b> method	o .	The integer index of the last matched capturing group, or None.
(?P=name)	A backreference to a named group	Match.group(	Returns one or more subgrou	upMat6thlastgroup	The name of the last
(?#)	A comment	[group1,])	match. 1 Argument returns s	_	matched capturing group
(?=)	lookahead assertion:  Matches if matches next without consuming the string	Matchgeti- tem( g)	more arguments return a <b>tup</b> Access groups with m[0], m[		The regular expression object whose match() or search() method
(?!)	negative lookahead assertion: Matches if	Match.groups( default=None)	Return a <b>tuple</b> containing all subgroups of the match	the	produced this match instance
(?<=)	doesn't match next	Match.groupdict(  default=None)	Return a <b>dictionary</b> containin named subgroups of the mat	_	The string passed to match() or search()
asse.	assertion: Match if the		by the subgroup name.		
	current position in the	Match.start(	Return the indices of the star Special escape characters		
	string is preceded by a match for that ends the	[ <i>group</i> ] Match. <b>end</b> (	of the substring matched by g	•	
	current position	[group])		empty string at the or end of a word	
(? )</td <td>negative lookbehind assertion: Match if the</td> <td>Match.span( [group])</td> <td>For a match <i>m</i>, return the 2-t tart(group) m.end(gro</td> <td>(D Water tree</td> <td>empty string when <i>not</i> at ing or end of a word</td>	negative lookbehind assertion: Match if the	Match.span( [group])	For a match <i>m</i> , return the 2-t tart(group) m.end(gro	(D Water tree	empty string when <i>not</i> at ing or end of a word
string is <b>not</b> precede	current position in the string is <b>not</b> preceded by a	Match.pos	The value of pos which was the search() or match() meth		
(?	match for		regex object	\D Match any	character which is <b>not</b> a
(id/name)yes-	Match with <i>yes-pattern</i> if the group with gived <i>id</i> or	Match.endpos	Likewise but the value of endpos decimal d	dpos decimal dig	git
pattern no- name ex	name exists and with no- pattern if not				code white space which includes [ \t\n\r\f\v]
					ny character which is <b>not</b> a character. The opposite of
					code word characters a-zA-Z0-9_]
				\W Match the	opposite of \w



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Match only at the end of a string

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Regular Expression	n Objects
Pattern.search( string[, pos[, endpos]])	See re.search().  pos gives an index where to start the search. endpos limits how far the string will be searched.
Pattern.match( string[, pos[, endpos]])	Likewise but see re.m atch()
Pattern.fullmatch( string[, pos[, endpos]])	Likewise but see re.f ullma tch()
Pattern.split( string, maxsplit=0)	<pre>Identical to re.split ()</pre>
Pattern.findall( string[, pos[, endpos]])	Similar to re.findall () but with additional parameters pos and endpos
Pattern.finditer( string[, pos[, endpos]])	Similar to re.findite r() but with additional parameters pos and endpos
Pattern.sub( repl, string, count=0)	Identical to re.sub()
Pattern.subn( repl, string, count=0)	Identical to re.subn(
Pattern. <b>flags</b>	The regex matching flags.

Regular Expression	n Objects (cont)	
Pattern.groups	The number of	
	capturing groups in the pattern	
Pattern.groupindex	A dictionary mapping any symbolic group names to group members	
Pattern.pattern	The pattern string from which the pattern object was compiled	
These objects are	returned by the re.comp	
ile() method		
Flore		
Flags		
ASCII, A	ASCII-only matching in \w, \b, \s and \d	
IGNORECASE, I	ignore case	
LOCALE, L	do a local-aware match	
MULTILINE, M	multiline matching, affecting ^ and \$	
DOTALL, S	dot matches all	
u	unicode matching (just in (?aiLmsux))	
VERBOSE, X	verbose	
Flags are used in (?aiLmsux-imsx:) or (? aiLmsux) or can be accessed with re.FLAG. In the first form flags are set or removed.		
This is useful if you wish to include the flags as part of the regular expression, instead of passing a flag argument to the re.compile()		



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function

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