

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.			
	characters must be escaped with \ if d 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 match object or None
re.match(pattern, string, flags=0)	If zero or more characters at the beginning of a string match <i>pattern</i> return a match object or None
re.fullmatch(pattern, string, flags=0)	If the whole <i>string</i> matches the <i>pattern</i> return a match object or None
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 list of all groups.
re.findall(pattern, string, flags=0)	Return all non-overlapping matches of <i>pattern</i> in <i>string</i> as list of strings.
re.finditer(pattern, string, flags=0)	Return an iterator yielding match objects 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 string obtained by replacing the leftmost non-overlapping occurrences of <i>pattern</i> in <i>string</i> by the <i>replacement repl. repl</i> can be a function.
re.subn(pattern, repl, string, count=0, flags=0)	Like sub but return a tuple (new_string, number_of_subs_made)
re. escape (pattern)	Escape special characters in pattern
re. purge ()	Clear the regular expression cache

Raw String Notation

In raw string notation r"te xt" there is no not the backslash character again. >>> re.mat ch(r"\W(.)\1\W"," <re.Match object; span=(0, 4), mat

<re.Match object; span=(0, 4), mat
>>> re.mat ch(" \\W (.) \\1 \\W "
<re.Match object; span=(0, 4), mat</pre>

Reference

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

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



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Extensions (co	nt)	Match objects		Mat	ch objects (co	ont)
(?P <na- me>)</na- 	Like regular paranthes but with a <i>named</i> group	Match.expand(template)	Return the string obtained by backslash substitution on <i>tel</i> done by the sub() method		•	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 subgro match. 1 Argument returns s			The name of the last matched capturing grou
(?#)	A comment	[9/04/27,])	more arguments return a tup	_	unu	or None
(?=)	lookahead assertion: Matches if matches next without consuming the string	Matchgeti- tem(g)	Access groups with m[0], m[1]Mat	ch. re	The regular expression object whose match() or search() method
(?!)	negative lookahead assertion: Matches if	Match.groups(default=None)	Return a tuple containing all subgroups of the match	the		produced this match instance
(?<=)	doesn't match next positive lookbehind	Match.groupdict(default=None)	Return a dictionary containing named subgroups of the materials.	•		The string passed to match() or search()
	assertion: Match if the		by the subgroup name.			
current position in the string is preceded by a		Match. start ([<i>group</i>]	m.start(Return the indices of the star		Match only	
	match for that ends the current position	Match.end([group])		\b		mpty string at the rend 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-tart(group) m.end(gro</td> <td></td> <td></td> <td>mpty string when <i>not</i> at ng or end of a word</td>	negative lookbehind assertion: Match if the	Match.span([group])	For a match <i>m</i> , return the 2-tart(group) m.end(gro			mpty string when <i>not</i> at ng or end of a word
	current position in the string is not preceded by a	Match. pos	The value of pos which was the search() or match() meth			
10	match for		regex object	\D	Match any o	character which is not 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 end	dpos	decimal digi	t
pattern no-	name exists and with no- pattern if not			\s		ode white space which includes [\t\n\r\f\v]
	,			\S		y character which is not a character. The opposite c
				\w	Match Unico	ode word characters -zA-Z0-9_]
				\W	Match the o	pposite of \w
				١Z	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. flags	The regex matching flags.

Regular Expression	, , ,
Pattern.groups	The number of
	capturing groups in the pattern
Pattern.groupindex	·
Pattern. pattern	The pattern string from which the pattern object was compiled
These objects are	returned by the re.comp
ile() method	
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
aiLmsux) or can be	?aiLmsux-imsx:) or (? e accessed with re.FLAG. gs are set or removed.
•	u wish to include the flags lar expression, instead of



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function

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