

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

Special	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 I match the character literally	

Methods of 're	s' 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 (Return the string obtained by	
pattern,	replacing the leftmost non-ov-	
repl,	erlapping occurrences of	
string,	pattern in string by the replac-	
count=0,	ement repl. repl can be a	
flags=0)	function.	
re. subn (Like sub but return a tuple	
pattern,	(new_string,	
repl,	number_of_subs_made)	
string,		
count=0,		
flags=0)		
re. escape (Escape special characters in	
pattern)	pattern	
re. purge ()	Clear the regular expression	
	cache	

Raw String Notation

In raw string notation r"te xt" there is no notation 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

LAtoriolofic	,
(?)	This is the start of an extension
(?	The letters set the correspondig
aiLmsux)	flags See flags

(?:...) A non-capturing version of regular parantheses

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Extensions (cont)		Match objects		Match objects (cont)		
(?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	upMate	thlastgroup	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 tup Access groups with m[0], m[h.re	or None The regular expression object whose match() or search() method
(?!)	negative lookahead assertion: Matches if	Match.groups(default=None)	rtotairi a tapio ooritairiing air tiio			produced this match instance
doesn't match next (?<=) positive lookbehind		Match.groupdict(default=None)	Return a dictionary containing named subgroups of the ma	•		The string passed to match() or search()
assertion: Match if the current position in the string is preceded by a match for that ends the current position			by the subgroup name.	Spec	ial escape ch	haracters
		Match. start ([<i>group</i>]	Return the indices of the star of the substring matched by	i Lafiu	alid .	
	match for that ends the	Match. end ([<i>group</i>])	,	\b	Match the e	mpty string at the rend of a word
		Match.span([group])	For a match m , return the 2-tart(group) m.end(gro			mpty string when <i>not</i> at ng or end of a word
	string is not preceded by a	Match.pos The value of pos which was the search() or match() meth		pagsed Match any Unicode decimal digit this nod of the cludes [0-9]		
(?	match for Match with <i>yes-pattern</i> if	Match.endpos	regex object Likewise but the value of end	\D dpos	Match any o	character which is not a
	the group with gived <i>id</i> or 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 of
				\w	Match Unico	ode word characters -zA-Z0-9_]
				\W	Match the o	pposite of \w
				\Z	Match only a	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

Regular Expressio	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		
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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flags.

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function

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