

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 <i>m</i> to <i>n</i> 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 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) re.subn(Return the string obtained by replacing the leftmost non-overlapping occurrences of pattern in string by the replacement repl. repl can be a function. Like sub but return a tuple	
pattern, repl, string, count=0, flags=0)	(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"text" there is no need to escape the backslash character again.

>>> re.match(r"\W(.)\1\W", " ff
")
<re.Match object; span=(0, 4),
match=' ff '>
>>> re.match("\\W(.)\\1\\W", "
ff ")
<re.Match object; span=(0, 4),
match=' ff '>

Reference

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

Fyt	ensi	ions

(?)	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)		
(?P <na- me>)</na- 	Like regular paranthes but with a <i>named</i> group	
(?P=name)	A backreference to a named group	
(?#)	A comment	
(?=)	lookahead assertion: Matches if matches next without consuming the string	
(?!)	negative lookahead assert- ion: Matches if doesn't match next	
(?<=)	positive lookbehind assert- ion: Match if the current position in the string is preceded by a match for that ends the current position	
(?)</td <td>negative lookbehind assertion: Match if the current position in the string is not preceded by a match for</td>	negative lookbehind assertion: Match if the current position in the string is not preceded by a match for	
(? (id/name)yes- pattern no- pattern)	Match with <i>yes-pattern</i> if the group with gived <i>id</i> or <i>name</i> exists and with <i>no-</i> <i>pattern</i> if not	

Match objects	
Match. expand (template)	Return the string obtained by doing backslash substitution on <i>template</i> , as done by the sub() method
Match.group([group1,])	Returns one or more subgroups of the match. 1 Argument returns string and more arguments return a tuple.
Matchgetitem(g)	Access groups with m[0], m[1]
Match.groups(default=None)	Return a tuple containing all the subgroups of the match
Match.groupdict(default=None)	Return a dictionary containing all the <i>named</i> subgroups of the match, keyed by the subgroup name.
Match.start([group] Match.end([group])	Return the indices of the start and end of the substring matched by <i>group</i>
Match.span([group])	For a match m , return the 2-tuple (m.start(group)) m.end(group))
Match. pos	The value of pos which was passed to the search() or match() method of the regex object
Match. endpos	Likewise but the value of <i>endpos</i>

Mate	ch objects (cont)	
Mate last- inde	matched capturing group, or	
Mate	- capturing group or None	
Mato re	ch. The regular expression object whose match() or search() method produced this match instance	
Mato strir	3 3	
Spe	cial escape characters	
\A	Match only at the start of the string	
/b	Match the empty string at the beginning or end of a word	
\B	Match the empty string when <i>not</i> at the beginning or end of a word	
\d	Match any Unicode decimal digit this includes [0-9]	
\D	Match any character which is not a decimal digit	
\s	Match Unicode white space characters which includes [\t\n\r\f\v]	
\S	Matches any character which is not a whitespace character. The opposite of \s	
	Match Unicode word characters including [a-zA-Z0-9_]	
\w	Match the opposite of \w	
\W \W	Match the opposite of \w	



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Regular Expression 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.match()
Pattern.fullmatch(string[, pos[, endpos]])	Likewise but see re.fullmatch()
Pattern.split(string, maxsplit=0)	<pre>ldentical to re.spl- it()</pre>
Pattern.findall(string[, pos[, endpos]])	Similar to re.fin-dall() but with additional parameters pos and endpos
Pattern.finditer(string[, pos[, endpos]])	Similar to re.fin-diter() 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.sub-n()
Pattern.flags	The regex matching

Regular Expressi	ion Objects (cont)	
Pattern. groups	The number of capturing groups in the pattern	
Pattern. groupinde	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 compile() method		
ASCII, A	ASCII-only matching in \w, \b, \s and \d	
IGNORECASE, I	ignore case	
LOCALE, L	do a local-aware match	

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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