

# python regular expression (regex) Cheat Sheet

Special characters	Methods of 're' module	Methods of 're' module (cont)
.	<code>re.compile(pattern, flags=0)</code> Compile a regular expression pattern into a regular expression object. Can be used with <code>match()</code> , <code>search()</code> and others	<code>re.sub(pattern, repl, string, count=0, flags=0)</code> Return the <code>string</code> obtained by replacing the leftmost non-overlapping occurrences of <code>pattern</code> in <code>string</code> by the replacement <code>repl</code> . <code>repl</code> can be a function.
.		<code>re.subn(pattern, repl, string, count=0, flags=0)</code> Like <code>sub</code> but return a tuple ( <code>new_string, number_of_subs_made</code> )
.		<code>re.escape(pattern)</code> Escape special characters in <code>pattern</code>
^	<code>re.match(pattern, string, flags=0)</code> If zero or more characters at the beginning of a string match <code>pattern</code> return a <code>match object</code> or <code>None</code>	<code>re.purge()</code> Clear the regular expression cache
\$	<code>re.fullmatch(pattern, string, flags=0)</code> If the whole <code>string</code> matches the <code>pattern</code> return a <code>match object</code> or <code>None</code>	
*	<code>re.split(pattern, string, maxsplit=0, flags=0)</code> Split <code>string</code> by the occurrences of <code>pattern</code> <code>maxsplit</code> times if non-zero. Returns a <code>list</code> of all groups.	
+	<code>re.findall(pattern, string, flags=0)</code> Return all non-overlapping matches of <code>pattern</code> in <code>string</code> as <code>list</code> of strings.	
?	<code>re.finditer(pattern, string, flags=0)</code> Return an <code>iterator</code> yielding <code>match objects</code> over all non-overlapping matches for the <code>pattern</code> in <code>string</code>	
{m}		
{m,n}		
{m,n}?		
\		
[]		
(...)		
With RE is the resulting regular expression.		
Special characters must be escaped with \ if it should match the character literally		

## Raw String Notation

### Reference

### Extensions

(?...)	This is the start of an extension
(?	The letters set the corresponding flags See <code>flags</code>
aiLmsux)	
(?:...)	A non-capturing version of regular parentheses

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Extensions (cont)	Match objects	Match objects (cont)
(?P<name>...)	Like regular paranthes but with a <i>named</i> group	Match. last- index
(?P=name)	A backreference to a <i>named</i> group	The integer index of the last matched capturing group, or None.
(?#...)	A comment	Match. last- group
(?=...)	<i>lookahead assertion</i> : Matches if ... matches next without consuming the string	The name of the last matched capturing group or None
(?!...)	<i>negative lookahead assertion</i> : Matches if ... doesn't match next	Match. re
(?<=...)	<i>positive lookbehind assertion</i> : Match if the current position in the string is preceded by a match for ... that ends the current position	The <b>regular expression object</b> whose <b>match()</b> or <b>search()</b> method produced this match instance
(?<!...)	<i>negative lookbehind assertion</i> : Match if the current position in the string is <b>not</b> preceded by a match for ...	Match. string
(? (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-pattern</i> if not	The string passed to <b>match()</b> or <b>search()</b>
<b>Special escape characters</b>		
\A		
\b		
\B		
\d		
\D		
\s		
\S		
\w		
\W		
\Z		

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Regular Expression Objects		Regular Expression Objects (cont)
Pattern. <b>search</b> ( <i>string</i> [, <i>pos</i> [, <i>endpos</i> ]])	See <code>re.search()</code> . <i>pos</i> gives an index where to start the search. <i>endpos</i> limits how far the string will be searched.	Pattern. <b>groups</b> The number of capturing groups in the pattern
Pattern. <b>match</b> ( <i>string</i> [, <i>pos</i> [, <i>endpos</i> ]])	Likewise but see <code>re.match()</code>	Pattern. <b>groupindex</b> A dictionary mapping any symbolic group names to group members
Pattern. <b>fullmatch</b> ( <i>string</i> [, <i>pos</i> [, <i>endpos</i> ]])	Likewise but see <code>re.fullmatch()</code>	Pattern. <b>pattern</b> The pattern string from which the pattern object was compiled
Pattern. <b>split</b> ( <i>string</i> , <i>maxsplit</i> =0)	Identical to <code>re.split()</code>	These objects are returned by the <code>re.compile()</code> method
Pattern. <b>findall</b> ( <i>string</i> [, <i>pos</i> [, <i>endpos</i> ]])	Similar to <code>re.findall()</code> but with additional parameters <i>pos</i> and <i>endpos</i>	<b>Flags</b>
Pattern. <b>finditer</b> ( <i>string</i> [, <i>pos</i> [, <i>endpos</i> ]])	Similar to <code>re.finditer()</code> but with additional parameters <i>pos</i> and <i>endpos</i>	ASCII, A      ASCII-only matching in \w, \b, \s and \d
Pattern. <b>sub</b> ( <i>repl</i> , <i>string</i> , <i>count</i> =0)	Identical to <code>re.sub()</code>	IGNORECASE, I    ignore case
Pattern. <b>subn</b> ( <i>repl</i> , <i>string</i> , <i>count</i> =0)	Identical to <code>re.subn()</code>	LOCALE, L      do a local-aware match
Pattern. <b>flags</b>	The regex matching flags.	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 <code>re.FLAG</code> . 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 <code>re.compile()</code> function