

### Definition

Regular expression is a tool for matching patterns in text. With the help of regular expression you can find, match and replace text in strings.

A regular expression is a special sequence of characters that helps you match or find other strings or sets of strings, using a specialized syntax held in a pattern.

Module name re is imported to be used.

### White Space Characters

<code>\n</code>	Newline
<code>\s</code>	Space
<code>\t</code>	Tab
<code>\e</code>	Escape
<code>\r</code>	Return

### Identifiers

<code>\d</code>	Any <b>single</b> character or number
<code>\D</code>	Anything but a number (non-digit character)
<code>\s</code>	Space
<code>\S</code>	Anything but a space
<code>\w</code>	Any character (A-Z, a-z, 0-9 and underscore)
<code>\W</code>	Anything but a character
<code>.</code>	Any <b>single</b> character except for a new line
<code>\b</code>	The white space around words
<code>\.</code>	A period

### Functions

<code>match()</code>	Syntax - <code>re.match(pattern, string, &lt;flag=0&gt;)</code>
<code>search()</code>	For any pattern in the string - only the first match
<code>findall()</code>	Matches all occurrences
<code>split()</code>	Splits the string - forms an array
<code>replace()</code>	To replace one or more characters in a string

### Modifiers

<code>{x,y}</code>	We expect x to y integers
<code>+</code>	Match one or more occurrences
<code>?</code>	Match 0 or 1 occurrence
<code>*</code>	Match 0 or more of the preceding expression (eg. <code>x*</code> will match occurrences of x)
<code>\$</code>	Match the end of the string
<code>^</code>	Matching the beginning of a string
<code> </code>	Used as OR
<code>[]</code>	Displaying a range
<code>()</code>	To group the regular expressions



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