Python regex 'sub' function for search and replace

Python regex substitute function.

We'll cover the following Python search and replace Syntax Example 1 Example 2:

Python search and replace

The sub() function replaces every occurrence of a pattern with a string or the result of a function.

Syntax

```
re.sub(pattern, repl, string, maximum=0)
```

This method replaces all occurrences of the re pattern in string with repl, substituting all occurrences unless a maximum value is provided. Finally, returns the modified string.

Example 1

Format the phone number +61-927 479-548, remove everyting except the digits:

```
#!/usr/bin/python
import re

phone = "Please call the phone # +61-927 479-548"

#Remove anything other than digits
num = re.sub(r'\D', "", phone)
print "The raw phone numbe is : ", num
```







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Example 2:

Let's use the sub() function to "munge" a text, i.e., randomize the order of all
the characters in each word of a sentence except for the first and last
characters:

```
#!/usr/bin/python
   import re
                                                                               ()
   import random
  def repl(m):
            inner_word = list(m.group(2))
            random.shuffle(inner_word)
            return m.group(1) + "".join(inner_word) + m.group(3)
10 line = "Learn Scientific Python with Regex";
    m = re.sub(r"(\w)(\w+)(\w)", repl, line);
11
12
   if m:
13
       print "munged : ", m;
    else:
       print "No match!!";
```