Python regex `sub` function for search and replace

Python regex substitute function.

WE'LL COVER THE FOLLOWING

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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.

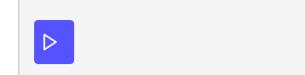
Example 1

Format the phone number +61-927 479-548, remove everything 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)

line = "Learn Scientific Python with Regex";
m = re.sub(r"(\w)(\w+)(\w)", repl, line);

if m:
    print "munged : ", m;
else:
    print "No match!!";
```







