

Im trying to understand how to create a custom print function. (using python 2.7)







The code above prints this to console:

```
>>>
custom Print--->why you make 2 lines??...
custom Print--->
>>>
```

and i want to print only one line:

```
>>>
1custom Print--->why you make 2 lines??...
```

asked 5 years, 3 months ago

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But cant figure out how to make this custom print work , i understand that there's some kind of recursion that triggers the second output to the console (i use self.write , to assign stdout to self.write himself!)

how can i make this work? or is my approach just completely wrong...



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3 Answers



It's not recursion. What happens is your write function is called twice, once with the text you expect, second time with just '\n'. Try this:









What I do in the above code is I add the new line character to the text passed in the first call, and make sure the second call made by the print statement, the one meant to print new line, doesn't print anything.

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Now try to comment out the first two lines and see what happens:

```
def write(self, text):
          #text = text.rstrip()
          #if len(text) == 0: return
          self.old_stdout.write('custom Print--->' + text + '\n')
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                                            edited Feb 20 '13 at 18:08
                                                                             answered Feb 20 '13 at 18:00
                                                                             piokuc
                                                                                    16.4k • 6 • 41 • 73
      Thanks, its working like it should:) didn't know that \n was added on a second pass!
      sys.stderr.write(":".join("{0:b}".format(ord(c)) for c in text)) even added this line just to make sure and your
      right ^^ - andsoa Feb 20 '13 at 18:22 🖋
      there's a small problem when using comma separated print: 'print var1, var2' Apparently the comma calls
      print for each 'var' and suppresses the addition of '\n' on the previous 'var'! This can be solved by adding a
      tmp var on the customPrint class, that stores text, and only prints when text ends with '\n' - andsoa Feb
      21 '13 at 13:24
      @andsoa Ok, thanks for sharing this - piokuc Feb 21 '13 at 13:39
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```

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One solution may be to use a context manager if it's localised.

3

```
class CustomPrint():
      def __init__(self, stdout):
         self.old_stdout = stdout
      def write(self, text):
         if len(text.rstrip()):
             self.old_stdout.write('custom Print--->'+ text)
   sys.stdout = CustomPrint(old_stdout)
   try:
      yield
   finally:
      sys.stdout = old_stdout
print "BEFORE"
with no_stdout():
   print "WHY HELLO!\n"
   print "DING DONG!\n"
print "AFTER"
```

The above produces:

```
BEFORE

custom Print--->WHY HELLO!

custom Print--->DING DONG!

AFTER
```

The code would need tidying up esp. around what the class should do WRT setting stdout back to what it was.

share improve this answer

answered Feb 20 '13 at 18:12

sotapme
3.499 • 2 • 12 • 17

thanks for sharing this elegant solution ! – andsoa Feb 21 '13 at 13:14 add a comment



How about doing from __future__ import print_function . This way you will use Python3 print function instead of print statement from Python2. Then you can redefine the print function:





```
def print(*args, **kwargs):
    __builtins__.print("Custom--->", *args, **kwargs)
```

There is a catch however, you will have to start using print function.

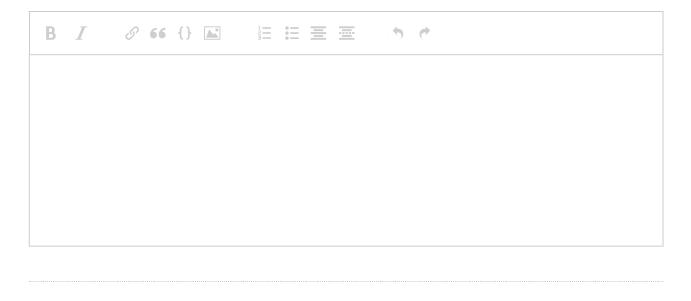
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That would work , but my case i need to change the print output of some classes written with python 2.7 print :/ – andsoa Feb 20 '13 at 18:04

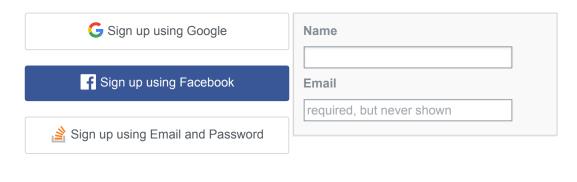
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