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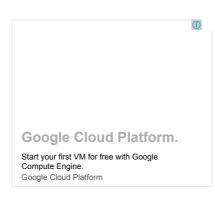
30 Essential Python Tips And Tricks For Programmers

Programming Python ② Updated: February 26, 2017 🎍 Meenakshi Agarwal 🐿 code profiling, python coding tips, python programming tips and tricks 🔍 14



If you ask any Python programmer to tell about the strengths of Python, he will quote brevity and high readability as the most influencing ones. In this Python tutorial, we'll cover many essential Python tips and tricks that will authenticate the above two points.

We've been collecting these useful shortcuts (tips & tricks) since we started using Python. And what's best than sharing something we know and which could benefit others as well.



shared a list of Python programming tips for beginners that aimed to optimize code and reduce coding efforts. And our readers still enjoy reading it.

So today, we're back with one more set of

essential Python tips and tricks. All these tips can help you minify the code and optimize execution. Moreover, you can readily use them in live projects while working on regular assignments.

Each trick has an example given with a brief explanation. For testing the coding snippets, you can look up these online virtual terminals for Python code execution.

There is one more key Python resource that we'd recently published which you must look at is as follows.

💡 Recommended – Top 30 Python Interview Questions Essential for Programmers.

Use the below TOC to quickly navigate through the Python tips and tricks.

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- 17. USE OF EHUITIS HE FYCHOL.
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- 27. Create a dictionary from two related sequences.
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- 29. Form a unified list without using any loops.
- 30. Implement a true switch-case statement in Python.

30 Essential Python Tips And Tricks For Programmers.

Tips#1. In-Place Swapping Of Two Numbers.

Python provides an intuitive way to do assignments and swapping in one line. Please refer the below example.

```
Python

1  | x, y = 10, 20  |
2  | print(x, y)  |
3  |
4  | x, y = y, x  |
5  | print(x, y)  |
6  |
7  | #1 (10, 20)  |
8  | #2 (20, 10)
```

The assignment on the right seeds a new tuple. While the left one instantly unpacks that (unreferenced) tuple to the names <a> and .

Once the assignment is through, the new tuple gets unreferenced and flagged for garbage collection. The swapping of variables also occurs at eventually.

TOC

Tips#2. Chaining Of Comparison Operators.

Aggregation of comparison operators is another trick that can come handy at times.

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Tips#3. Use Of Ternary Operator For Conditional Assignment.

Ternary operators are a shortcut for an if-else statement and also known as conditional operators.



Syntax for using conditional operator.	Python
1 [on_true] if [expression] else [on_false]	

Here are a few examples which you can use to make your code compact and concise

" 10p 20 Fython linterview questions for 11 professionals.

- » Python Test Entry Level Quiz for Python Developers.
- » Python Quiz String Handling Questions.
- » Solve Quiz Python String Functions Part2.

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The below statement is doing the same what it is meant to i.e. "assign 10 to x if y is 9, otherwise assign 20 to x". We can though extend the chaining of operators if required.

```
Python
1 | x = 10 if (y == 9) else 20
```

Likewise, we can do the same for class objects.

```
Python
1 | x = (classA if y == 1 else classB)(param1, param2)
```

In the above example, classA and classB are two classes and one of the class constructors would get called.

Below is one more example with a no. of conditions joining to evaluate the smallest number.

We can even use a ternary operator with the list comprehension.

TOC

Tips#4. Work With Multi-Line Strings.

The basic approach is to use backslashes which derive itself from C language.

One more trick is to use the triple-quotes.

```
python

| multiStr = """select * from multi_row
| where row_id < 5"""
| print(multiStr)
| #select * from multi_row
| where row_id < 5</pre>
| #select * from multi_row
| where row_id < 5
```

The common issue with the above methods is the lack of proper indentation. If we try to indent, it'll insert whitespaces in the string.

So the final solution is to split the string into multi lines and enclose the entire string in parenthesis.

```
Python

1 multiStr= ("select * from multi_row "
2 "where row_id < 5 "
3 "order by age")
print(multiStr)
5 #select * from multi_row where row_id < 5 order by age
```

TOC

Tips#5. Storing Elements Of A List Into New Variables.

We can use a list to initialize a no. of variables. While unpacking the list, the count of variables shouldn't exceed the no. of elements in the list.

```
Python

1 testList = [1,2,3]
2 x, y, z = testList
3 4 print(x, y, z)
5 6 #-> 1 2 3
```

TOC

Tips#6. Print The File Path Of Imported Modules.

If you want to know the absolute location of modules imported in your code, then use the below trick.

```
python

import threading
import socket

print(threading)
print(socket)

#1- <module 'threading' from '/usr/lib/python2.7/threading.py'>
#2- <module 'socket' from '/usr/lib/python2.7/socket.py'>
```

TOC

Tips#7. Use Interactive "_" Operator.

It's a useful feature which not many of us are aware.

In the Python console, whenever we test an expression or call a function, the result dispatches to a temporary name, _ (an underscore).

```
Python

1 >>> 2 + 1
2 3
3 >>> _
4 3
5 >>> print _
6 3
```

The "_" references to the output of the last executed expression.

тос

Tips#8. Dictionary/Set Comprehensions.

Like we use list comprehensions, we can also use dictionary/set comprehensions. They are simple to use and just as effective. Here is an example.

```
Python

1 testDict = {i: i * i for i in xrange(10)}
2 testSet = {i * 2 for i in xrange(10)}
3 print(testSet)
5 print(testDict)
6
7 #set([0, 2, 4, 6, 8, 10, 12, 14, 16, 18])
8 #{0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81}
```

Note- There is only a difference of <:> in the two statements. Also, to run the above code in Python3, replace <xrange> with <range>.

тос

Tips#9. Debugging Scripts.

We can set breakpoints in our Python script with the help of the <pdb> module. Please follow the below example.

Python

1 import pdb
2 pdb.set_trace()

We can specify <pdb.set_trace()> anywhere in the script and set a breakpoint there. It's extremely convenient.

TOC

Tips#10. Setup File Sharing.

Python allows running an HTTP server which you can use to share files from the server root directory. Below are the commands to start the server.

Python 2

Shell
1 | python -m SimpleHTTPServer

Python 3

Shell
1 python3 -m http.server

Above commands would start a server on the default port i.e. 8000. You can also use a custom port by passing it as the last argument to the above commands.

TOC

Tips#11. Inspect An Object In Python.

We can inspect objects in Python by calling the dir() method. Here is a simple example.

```
Python

1 test = [1, 3, 5, 7]
2 print( dir(test) )

Shell

1 ['__add__', '__class__', '__contains__', '__delattr__', '__delitem__', '__delslice__', '__doc__', '__eq__'
, '__format__', '__ge__', '__getattribute__', '__getitem__', '__getslice__', '__gt__', '__hash__', '__iadd
__', '__imul__', '__init__', '__iter__', '__len__', '__len__', '__reduce__', '__reduce_ex__', '__repr__, '__reversed__', '__rmul__', '__setattr__', '__setitem__', '__sets
lice__', '__sizeof__', '__str__', '__subclasshook__', 'append', 'count', 'extend', 'index', 'insert', 'pop
', 'remove', 'reverse', 'sort']
```

TOC

Tips#12. Simplify If Statement.

To verify multiple values, we can do in the following manner.

```
Python

1 | if m in [1,3,5,7]:

instead of:

Python

1 | if m==1 or m==3 or m==5 or m==7:
```

Alternatively, we can use '{1,3,5,7}' instead of '[1,3,5,7]' for 'in' operator because 'set' can access each element by O(1).

TOC

Tips#13. Detect Python Version At Runtime.

Sometimes we may not want to execute our program if the Python engine currently running is less than the supported version. To achieve this, you can use the below coding snippet. It also prints the currently used



Python version in a readable format.

```
python

import sys

#Detect the Python version currently in use.

if not hasattr(sys, "hexversion") or sys.hexversion != 50660080:

print("Sorry, you aren't running on Python 3.5\n")

print("Please upgrade to 3.5.\n")

sys.exit(1)

#Print Python version in a readable format.
print("Current Python version: ", sys.version)
```

Alternatively, you can use sys.version_info >= (3, 5) to replace sys.hexversion!= 50660080 in the above code. It was a suggestion from one of the informed reader.

Output when running on Python 2.7.

```
Shell

1 | Python 2.7.10 (default, Jul 14 2015, 19:46:27)
2 | [GCC 4.8.2] on linux
3 | Sorry, you aren't running on Python 3.5
5 | Please upgrade to 3.5.
```

Output when running on Python 3.5.

```
Python

1 | Python 3.5.1 (default, Dec 2015, 13:05:11)

2 | [GCC 4.8.2] on linux

3 | 4 | Current Python version: 3.5.2 (default, Aug 22 2016, 21:11:05)

5 | [GCC 5.3.0]
```

тос

Tips#14. Combining Multiple Strings.

If you want to concatenate all the tokens available in a list, then see the below example.

```
Python

1 | >>> test = ['I', 'Like', 'Python', 'automation']
```

Now, let's create a single string from the elements in the list given above.

```
Python
1 |>>> print ''.join(test)
```

TOC

Tips#15. Four Ways To Reverse String/List.

Reverse The List Itself.

```
Python

1 testList = [1, 3, 5]
2 testList.reverse()
3 print(testList)
4 5 #-> [5, 3, 1]
```

Reverse While Iterating In A Loop.

Reverse A String In Line.

Duthon

```
1 "Test Python"[::-1]
```

This gives the output as "nohtyP tseT"

Reverse A List Using Slicing.

```
Python
1 [1, 3, 5][::-1]
```

The above command will give the output as [5, 3, 1].

TOC

Tips#16. Play With Enumeration.

With enumerators, it's easy to find an index while you're inside a loop.

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Tips#17. Use Of Enums In Python.

We can use the following approach to create enum definitions.

```
class Shapes:
Circle, Square, Triangle, Quadrangle = range(4)

print(Shapes.Circle)
print(Shapes.Square)
print(Shapes.Triangle)
print(Shapes.Quadrangle)

### 1-> 0
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##
```

TOC

Tips#18. Return Multiple Values From Functions.

Not many programming languages support this feature. However, functions in Python do return multiple values.

Please refer the below example to see it working.

```
# function returning multiple values.

def x():
    return 1, 2, 3, 4

# Calling the above function.
a, b, c, d = x()

print(a, b, c, d)

# -> 1 2 3 4
```

TOC

Tips#19. Unpack Function Arguments Using Splat Operator.

The splat operator offers an artistic way to unpack arguments lists. Please refer the below example for clarity.

```
Python

1 | def test(x, y, z):
```

```
2
3
4 testDict = {'x': 1, 'y': 2, 'z': 3}
5 testList = [10, 20, 30]
6
7 test(*testDict)
8 test(**testDict)
9 test(**testList)
10
11 #1-> x y z
12 #2-> 1 2 3
13 #3-> 10 20 30
```

TOC

Tips#20. Use A Dictionary To Store A Switch.

We can make a dictionary store expressions.

```
python

stdcalc = {
    'sum': lambda x, y: x + y,
    'subtract': lambda x, y: x - y

print(stdcalc['sum'](9,3))

print(stdcalc['subtract'](9,3))

##1-> 12
##2-> 6
```

TOC

Tips#21. Calculate The Factorial Of Any Number In One Line.

Python 2.X.

```
Python

1 | result = (lambda k: reduce(int.__mul__, range(1,k+1),1))(3)
2 | print(result)
3 | #-> 6
```

Python 3.X.

```
Python

import functools
result = (lambda k: functools.reduce(int.__mul__, range(1,k+1),1))(3)
print(result)

#-> 6
```

TOC

Tips#22. Find The Most Frequent Value In A List.

тос

Tips#23. Reset Recursion Limit.

Python restricts recursion limit to 1000. We can though reset its value.

Please apply the above trick only if you need it.

TOC

Tips#24. Check The Memory Usage Of An Object.

In Python 2.7, a 32-bit integer consumes 24-bytes whereas it utilizes 28-bytes in Python 3.5. To verify the memory usage, we can call the <getsizeof> method.

In Python 2.7.

```
Python

1 import sys
2 x=1
print(sys.getsizeof(x))
4
5 #-> 24
```

In Python 3.5.

```
Python

1 import sys
2 x=1
print(sys.getsizeof(x))
4
5 #-> 28
```

TOC

Tips#25. Use __slots__ To Reduce Memory Overheads.

Have you ever observed your Python application consuming a lot of resources especially memory? Here is one trick which uses <__slots__> class variable to reduce memory overhead to some extent.

```
Python
    import sys
class FileSystem(object):
2
3
          def __init__(self, files, folders, devices):
               self.files = files
self.folders = folders
self.devices = devices
5
6
7
8
     print(sys.getsizeof( FileSystem ))
     class FileSystem1(object):
11
12
          __slots__ = ['files', 'folders', 'devices']
14
15
         def __init__(self, files, folders, devices):
    self.files = files
               self.folders = folders
self.devices = devices
17
18
     print(sys.getsizeof( FileSystem1 ))
20
21
    #In Python 3.5
22
23
    #1-> 1016
24
    #2-> 888
```

Clearly, you can see from the results that there are savings in memory usage. But you should use __slots_ when the memory overhead of a class is unnecessarily large. Do it only after profiling the application. Otherwise, you'll make the code difficult to change and with no real benefit.

тос

Tips#26. Lambda To Imitate Print Function.

τος

- - -

Tips#27. Create A Dictionary From Two Related Sequences.

TOC

Tips#28. In Line Search For Multiple Prefixes In A String.

```
Python

1 print("http://www.google.com".startswith(("http://", "https://")))
2 print("http://www.google.co.uk".endswith((".com", ".co.uk")))
3 4 #1-> True
5 #2-> True
```

TOC

Tips#29. Form A Unified List Without Using Any Loops.

```
Python

1 | import itertools
2 | test = [[-1, -2], [30, 40], [25, 35]] | print(list(itertools.chain.from_iterable(test)))
4 | 5 | #-> [-1, -2, 30, 40, 25, 35]
```

If you have an input list with nested lists or tuples as elements, then use the below trick. However, the limitation here is that it's using a for Loop.

```
Python
    def unifylist(l_input, l_target):
            if isinstance(it, list):
    unifylist(it, l_target)
3
4
             elif isinstance(it, tuple):
                 unifylist(list(it), l_target)
6
7
8
                 l_target.append(it)
        return l_target
10
    test = [[-1, -2], [1,2,3, [4,(5,[6,7])]], (30, 40), [25, 35]]
12
13
    print(unifylist(test,[]))
15
    #Output => [-1, -2, 1, 2, 3, 4, 5, 6, 7, 30, 40, 25, 35]
```

Another simpler method to unify the list containing lists and tuples is by using the Python's $more_itertools$ package. It doesn't require looping. Just do a $pip install more_itertools$, if not already have it.

```
Python

import more_itertools

test = [[-1, -2], [1, 2, 3, [4, (5, [6, 7])]], (30, 40), [25, 35]]

print(list(more_itertools.collapse(test)))

#0utput=> [-1, -2, 1, 2, 3, 4, 5, 6, 7, 30, 40, 25, 35]
```

TOC

Tips#30. Implement A True Switch-Case Statement In Python.

Here is the code that uses a dictionary to imitate a switch-case construct.

```
python

def xswitch(x):
    return xswitch._system_dict.get(x, None)

xswitch._system_dict = {'files': 10, 'folders': 5, 'devices': 2}

python

are the print (xswitch ('default'))

python

python

for int (xswitch ('default'))

python

are the print (xswitch ('default'))

python

python

python

python

are the print (xswitch ('default'))

python

python

python

python

python

python

python

are the print (xswitch ('default'))

python

python
```

```
print(xswitch('devices'))
   #1-> None
10
   #2-> 2
```

TOC

Summary - Essential Python Tips And Tricks For Programmers.

We wish the essential Python tips and tricks given above would help you do the tasks quickly & efficiently. And you could use them for your assignments and projects.

Listening to your feedback makes us do better so share it.

You can even ask us to write on a topic of your choice. We'll add it to our writing roadmap.

Lastly, if you'd enjoyed the post, then please care to share it with friends and on social media.

Keep Learning,

TechBeamers.















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ABOUT THE AUTHOR



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14 COMMENTS

→ Reply **AETOS**

in #29. Form A Unified List Without Using Any Loops. it won't work for the following type of list

test = [[-1, -2], [1,2,3, [4,(5,6,7)]], (30, 40), [25, 35]] -> won't work

AUTHOR MEENAKSHI AGARWAL

→ Reply

Yes, it's not working because the input list is containing nested list and tuple as elements. So we need a function that could run recursively, differentiate between tuple/list and convert a tuple into the list.

Hence, to process your input data, I've added a recursive function under the same tip. It's working, please check it at your end.

AUTHOR MEENAKSHI AGARWAL

→ Reply

Added one more way to unify the list of lists & tuples under the tip#29. It's by using the "more_itertools" package.

MIAODX

→ Reply

Hei, great post.

Some questions:

#1. in Tips#5.

"While unpacking the list, the count of variables shouldn't exceed the the no. of elements in the list."

in fact, the number should be exactly the same, otherwise will raise an exception.

#2. in Tips#25.

On my win10 python2.7 I got:

#In Python 2.7 win10

#1-> 896

#2-> 1016

Even on $http://rextester.com/l/python_online_compiler, when used python 27, the answer is: \\$

#In Python 2.7 rextester

#1-> 904

#2-> 1024

So, I do not think the comparison is so convictive, could you please describe with a better example?

And I looked at the official reference, [python slots]

(https://docs.python.org/3/reference/datamodel.html?highlight=__slots__#object.__slots__)
. it dose say:

"The __slots__ declaration takes a sequence of instance variables and reserves just enough space in each instance to hold a value for each variable. Space is saved because __dict__ is not created for each instance."

Thanks again for the tips!

Nice article! In Tips#13 I think that you can use sys.version_info.major and sys.version_info.minor also.

JUST-A-PROGRAMMER

→ Reply

Awesome tips. Thank you for this.

	LUIZ FELIPE DO DIVINO	→ Reply
	Really nice tips my friend!	
	Greetings from Brazil.	
	MARK B	→ Reply
	Regarding #6 I just type "pydoc threading" and the FILE section at bottom lis	ts the file path.
	SURESH	→ Reply
	#20 Tips	
	typo	
	subract ==> subtract	
	AUTHOR MEENAKSHI AGARWAL → Reply	
	Thanks. This typo is taken care of now.	
	manks. This typo is taken care of now.	
	PRAMOD	→ Reply
	Wonderful post. Could you please write a post about the iterators and gener	ators someday?
	AUTHOR MEENAKSHI AGARWAL	→ Reply
	Thanks. And will cover the mentioned topics in one of the nex	
	manks. And will cover the mendoned topics in one of the nex	τι μοσισ.
		→ D _ I
	ANON	→ Reply
	Awesome tips	
	AUTHOR MEENAKSHI AGARWAL	
	→ Reply	
	Thanks.	
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