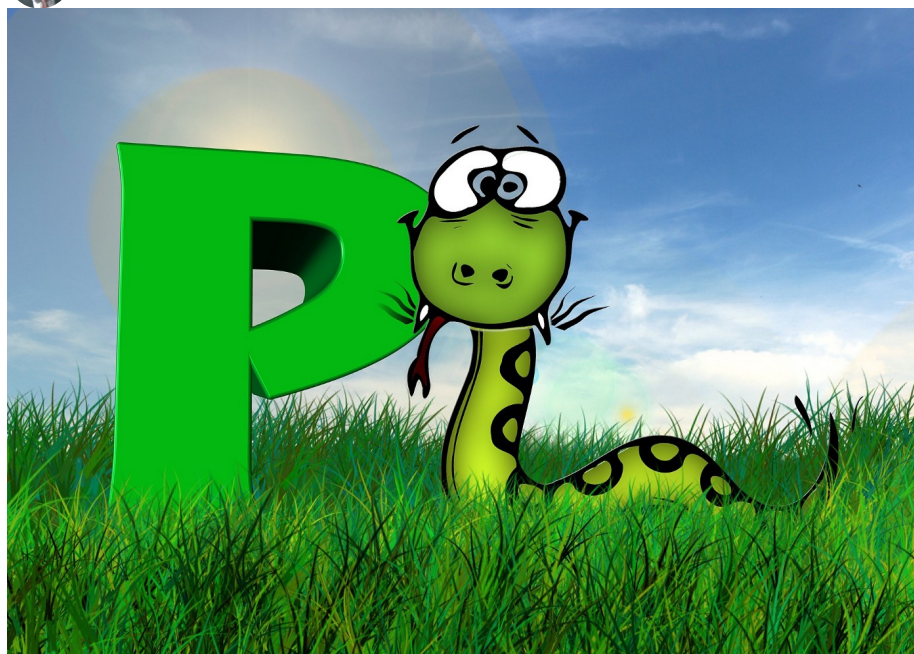


15 Python tips and tricks, so you don't have to look them up on Stack Overflow

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Tired of searching on Stack Overflow every time you forget how to do something in Python? Me too!

Here are 15 python tips and tricks to help you code faster!

(1) Swapping values

```
x, y = 1, 2
print(x, y)
x, y = y, x
print(x, y)
```

(2) Combining a list of strings into a single one

```
sentence_list = ["my", "name", "is", "George"]
sentence_string = " ".join(sentence_list)
print(sentence_string)
```

(3) Splitting a string into a list of substrings

```
sentence_string = "my name is George"
sentence_string.split()
print(sentence_string)
```

(4) Initialising a list filled with some number

```
[0]*1000 # List of 1000 zeros
[8.2]*1000 # List of 1000 8.2's
```

(5) Merging dictionaries

```
x = {'a': 1, 'b': 2}
y = {'b': 3, 'c': 4}
z = {**x, **y}
```

(6) Reversing a string

```
name = "George"
name[::-1]
```

(7) Returning multiple values from a function



```

    c = "cool"
    return a, b, bsentence = get_a_string()
(a, b, c) = sentence

```

(8) List comprehension

```

a = [1, 2, 3]
b = [num*2 for num in a] # Create a new list by multiplying each
element in a by 2

```

(9) Iterating over a dictionary

```

m = {'a': 1, 'b': 2, 'c': 3, 'd': 4}
for key, value in m.items():
    print('{0}: {1}'.format(key, value))

```

(10) Iterating over list values while getting the index too

```

m = ['a', 'b', 'c', 'd']
for index, value in enumerate(m):
    print('{0}: {1}'.format(index, value))

```

(11) Initialising empty containers

```

a_list = list()
a_dict = dict()
a_map = map()
a_set = set()

```

(12) Removing useless characters on the end of your string

```

name = " George "
name_2 = "George//"
name.strip() # prints "George"
name_2.strip("/") # prints "George"=

```

(13) Find the most frequent element in a list

```

test = [1, 2, 3, 4, 2, 2, 3, 1, 4, 4, 4]
print(max(set(test), key = test.count))

```

(14) Check the memory usage of an object

```

import sys
x = 1
print(sys.getsizeof(x))

```

(15) Convert a dict to XML

```

from xml.etree.ElementTree import Element
def dict_to_xml(tag, d):
    '''
    Turn a simple dict of key/value pairs into XML
    '''
    elem = Element(tag)
    for key, val in d.items():
        child = Element(key)
        child.text = str(val)
        elem.append(child)
    return elem

```

. . .

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Recommended Reading

Want to learn more about coding in Python? The *Python Crash Course* book is the best resource out there for learning how to code in Python!

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