

Python3 Pro Tips Cheat Sheet

by eazykaye via cheatography.com/164268/cs/34572/

Reference Docs

The Python Standard Library: https://docs.python.org/3/library/Built-in functions: https://docs.python.org/3/library/functions.html#dir

'print()' Like a Pro

```
## 'sep' argument ##
print(1, 2, 3, sep="\n ")
# 1
# 2
# 3
## end argument ##
print( 'ad dress', end='@')
print( 'do mai n[.] com')
# addres s@d oma in[.]com
## repeat printing ##
print( " Pyt hon " * 3)
# Python Pyt hon Python
```

Operators

```
# ternary operators
x = 'foo' if 2+2==5 else 'bar' # x = 'bar'
# walrus operator
```

Misc

```
#eval()
exp = "2 + 2"
eval(exp) # 4
exp = " +".j oin ([s tr(n) for n in range(9)])
print(exp) # '0+1+2 +3+ 4+5 +6+7+8'
eval(exp) # 36
```

'string' Like a Star

```
"AAABBCCCC".count('C') # 4

" AAA BBC CCC ".in dex ('B') # 3

" strip both sides ".st rip() # 'strip both sides'

" strip left side ".ls trip() # 'strip left side '

" strip right side ".rs trip() # ' strip right side'

" /".j oin (['', 'path', 'to', 'somew here']) # /path/ to/ som ewhere

String Methods ref: https: //d ocs.py tho n.o -
rg/ 3/1 ibr ary /st dty pes.ht ml# str ing -me -
thods
```

Lists

```
# basic list comprehension
# syntax: [exp for member in iterable (if condit -
[x for x in range(10) if x > 5] # [6, 7, 8, 9]
# nested list compre hension
[f"{ x}{ y}" for x in " ab" for y in " cd"] #
['ac', 'ad', 'bc', 'bd']
# slicing
# syntax: List[ Start Index : End Index(not
inclusive) : Step ]
L1 = [0,1,2,3,4,5,6,7,8,9]
L1[4:7] # [4, 5, 6]
L1[::2] # [0, 2, 4, 6, 8]
L1[::-1] # [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
first, *middle, last = [0,1,2,3,4,5,6,7,8,9]
   # first = 0
   \# middle = [1, 2, 3, 4, 5, 6, 7, 8]
   # last = 9
```

'math' Like a Maniac

```
round(5.2) # 5
round(5.7) # 6
from math import floor, ceil
floor(5.2) # 5
ceil(5.2) # 6
abs(-5.2) # 5.2
min([1,2,3]) # 1
max([1,2,3]) # 3
sum([1,2,3]) # 6
```



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