

Python Cheat Sheet

by Roger Wattenhofer



```
a = 10 // 3      # a = 3 (integer division)
b = 10 % 3      # b = 1 (remainder of division)
c = 10 / 3      # c = 3.3333333333333335 (automatic float)
d = (3 * 0.1) == 0.3 # d = False (floats are not exact!)
e = 2 ** 1000   # (power results in big number? no problem!)
_ = 1           # - 2 (interactive: use _ for last result)
```

Math

```
a = "abcdefgh"
a = len(a)      # a = 8
b = a[0]        # b = 'a'
c = a[-1]       # c = 'h'
d = a[1:3]      # d = 'bc' (slicing)
e = a[3:-1]     # e = 'defg'
f = a[3:-1:2]   # f = 'df'
g = a[::2]      # g = 'bgfdhbe'

x = list(range(5)) # x = [0, 1, 2, 3, 4] (range: lazy)
y = (3, 5, 8)     # y = (3, 5, 8) (direct construction)
z = [i**k for i in range(1,8)] # z = [1, 4, 9, 16, 25] (list comp.)
z.append(77)      # (appending element to list)
z.extend([88,99]) # (extending list with another list)
```

Strings & Lists

```
s = set({2,1,3,2,1})
s.add(4); s.remove(2)
print(3 in s)

d = {'alice': 24, 'bob': 22, 'charlie': 23} # dictionary)
d['eve'] = 24 # (add or change entry)
v = d.pop('charlie', None) # v = 23 (remove)
```

Sets & Dictionaries

```
if 3*a < y or a > 3*y: # if, elif, else as usual
    print("far")        # no braces but indents
elif a == y:
    print("equal")
else:
    print("near")

for item in d:          # traverse keys (also: list, set)
    for i in range(len(d)): # traverse over indexes
        for i, item in enumerate(d): # both index and item
            break          # break current loop

while a > 3:           # while loops as usual
    print(x)
    x -= 1             # x = x - 1

print("hello") if a == 3 else print("x =",x) # cond. expression
```

Control

```
def square(x):        # function definition
    return x**2       # with return value

f = lambda x : x**2   # lambda is one line function
print(f(3))          # - 25

l = [i**k for i in range(1,4)]
l.sort(key=lambda v : v % 100) # l = [1, 4, 25, 16, 9]
```

Functions

```
x = y = a = 1        # globally: set all = 1

def foo():
    global x          # keyword global: global x is used
    x, y = 2, 3      # x is global, y is local, a is unchanged
    print(x,y,a)     # - 2 2 1 (x is accessible)

foo()
print(x,y,a)        # - 2 1 1 (note that global y was unchanged)
```

Scope

Non Programmer39s Guide To Python

D Keegan



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Whispering the Techniques of Language: An Emotional Journey through **Non Programmer39s Guide To Python**

In a digitally-driven world wherever monitors reign supreme and immediate conversation drowns out the subtleties of language, the profound strategies and psychological nuances hidden within phrases frequently go unheard. However, nestled within the pages of **Non Programmer39s Guide To Python** a charming fictional treasure pulsating with organic thoughts, lies an extraordinary quest waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus encourages visitors on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within ab muscles fabric of every word. Within the psychological depths of the poignant evaluation, we can embark upon a heartfelt exploration of the book is primary styles, dissect their captivating publishing fashion, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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