

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!)
l = l           # - 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 = 'bgfdhba'

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 == 1 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, 2 # 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

Richard Johnson



Non Programmer39s Guide To Python:

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

In a digitally-driven earth wherever displays reign great and quick conversation drowns out the subtleties of language, the profound strategies and mental nuances hidden within words often get unheard. Yet, located within the pages of **Non Programmer39s Guide To Python** a captivating fictional treasure pulsating with fresh emotions, lies an exceptional quest waiting to be undertaken. Composed by a skilled wordsmith, this wonderful opus attracts visitors on an introspective trip, gently unraveling the veiled truths and profound affect resonating within ab muscles material of each word. Within the mental depths with this touching review, we can embark upon a genuine exploration of the book is core subjects, dissect their charming writing style, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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