

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 = 'bdfh'

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)
    a -= 1             # a = a - 1

print("hello") if a == 5 else print("x =",x) # cond. expression
```

Control

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

f = lambda x : x**x   # 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, 8]
```

Functions

```
a = y = x = 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, z is unchanged
    print(x,y,x)     # - 2 2 1 (x is accessible)

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

Scope

Non Programmer39s Guide To Python

Camilla Rothe



Non Programmer39s Guide To Python:

The Enigmatic Realm of **Non Programmer39s Guide To Python**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Non Programmer39s Guide To Python** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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