

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 = "abcdegh"
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 = 'degh'
f = a[3:-1:2]   # f = 'dg'
g = a[::2]      # g = 'bgdehb'

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 == 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

```
a = y = x = 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, 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

Clive Campbell



Non Programmer39s Guide To Python:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Non Programmer39s Guide To Python**

In a global inundated with monitors and the cacophony of fast conversation, the profound energy and psychological resonance of verbal beauty frequently disappear into obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, located within the musical pages of **Non Programmer39s Guide To Python**, a captivating work of fictional elegance that impulses with fresh thoughts, lies an wonderful journey waiting to be embarked upon. Published with a virtuoso wordsmith, that magical opus books viewers on a psychological odyssey, delicately revealing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is key styles, dissect its fascinating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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Table of Contents Non Programmer39s Guide To Python

1. Understanding the eBook Non Programmer39s Guide To Python
 - The Rise of Digital Reading Non Programmer39s Guide To Python
 - Advantages of eBooks Over Traditional Books
2. Identifying Non Programmer39s Guide To Python
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Non Programmer39s Guide To Python
 - User-Friendly Interface
4. Exploring eBook Recommendations from Non Programmer39s Guide To Python
 - Personalized Recommendations

- Non Programmer39s Guide To Python User Reviews and Ratings
- Non Programmer39s Guide To Python and Bestseller Lists
- 5. Accessing Non Programmer39s Guide To Python Free and Paid eBooks
 - Non Programmer39s Guide To Python Public Domain eBooks
 - Non Programmer39s Guide To Python eBook Subscription Services
 - Non Programmer39s Guide To Python Budget-Friendly Options
- 6. Navigating Non Programmer39s Guide To Python eBook Formats
 - ePub, PDF, MOBI, and More
 - Non Programmer39s Guide To Python Compatibility with Devices
 - Non Programmer39s Guide To Python Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Non Programmer39s Guide To Python
 - Highlighting and Note-Taking Non Programmer39s Guide To Python
 - Interactive Elements Non Programmer39s Guide To Python
- 8. Staying Engaged with Non Programmer39s Guide To Python
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Non Programmer39s Guide To Python
- 9. Balancing eBooks and Physical Books Non Programmer39s Guide To Python
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Non Programmer39s Guide To Python
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Non Programmer39s Guide To Python
 - Setting Reading Goals Non Programmer39s Guide To Python
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Non Programmer39s Guide To Python
 - Fact-Checking eBook Content of Non Programmer39s Guide To Python

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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