

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 = 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 = '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

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

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**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

L Cohen



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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 a 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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bay it appears that the younger male whale sharks are more opportunistic and for many the ready supply of food at the bagan platforms in cenderawasih bay was reason enough to stay

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web a whale shark the size of a school bus swims slowly near the surface of the ocean its wide mouth is open like an enormous net scooping up whatever happens to be around mostly small fish fish

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web whale sharks are highly migratory and it is thought that their movement is associated both with abundance of food in the area as well as breeding behaviors scientists are still researching the life cycle of whale sharks but it is believed that male whale sharks begin maturing around 17 years old and females around 19 22 years old

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web the whale shark rhincodon typus is a slow moving filter feeding carpet shark and the largest known extant fish species the largest confirmed individual had a length of 18 8 m 61 7 ft the whale shark holds many records for size in the animal kingdom most notably being by far the largest living nonmammalian vertebrate

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