Cheatography

Python 3.x Quick Reference by tbyds via cheatography.com/62247/cs/15998/

Data Type Summary

Numeric (Integer)	Store whole number values
Numeric (Float)	Store decimal number values
Numeric (Complex)	Stores complex number values
Boolean	Stores true (or false) values (in an integer)
String	Stores an ordered sequence of alphanumeric character values
Tuple	Stores an ordered sequence of immutable data values. ()
Lists	Stores an ordered sequence of mutable data values. []
Dictionarie s	Stores key value pairs (mappings) {}
Set	Stores an unordered collection of unique and immutable objects

[x:y] Slices from index x up to index y (up to!) Slices from index x to last index in the [x:] set Slices from the first index up to index y [:y] [:] Slices the entire set [-1] Slices the last item from the set Slices everything except the last x [:-x] items from the set. (generalized) Slices from index x up to index y (up [x:y:z] to!), by step z

Arithmetic Operations

+	Addition (or string concatenation)
-	Subtraction or Negation
*	Multiplication (or string repetition)
/	Division
%	Modulus
**	Exponential
//	Floor Division (integer)
Logi	cal Operators
and	Logical And
or	Logical Or
not	Logical Not
Simp	ble Function
def N	faxFunc(x,y):

(,
if x>y:
return x
else:
return y

Bitwise Ope	erators
<<	Shift left
>>	Shift Right
&	Binary AND
	Binary OR
~	Binary NOT
٨	Binary XOR
Don't confus	e binary not with logical not!

Members	nip Operators
x in y	True if the value x can be found in y.
x not in	True if the value x can not be found
у	in y.

By tbyds

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Identity Operators

x is	True if x and y are variables that
У	reference the same data underneath!
x is	Only true if x and y are independent.
not	They may have the same value!
у	
Identi	ty operators verify that the variables are

located on the same part of the memory.

Assignment	Operators
x = y	Simple assignment x=y
x += y	x=x+y
х -= у	х=х-у
x *= y	x=x*y
x /= y	x=x/y
x %= y	х=х%у
x //= y	x=x//y
x **=y	x=x**y
x &=y	x=x & y
x =y	x=x y
x^=y	x=x^y
x>>=y	x=x >> y
x<<=y	x=x << y

Sample If Statement

f crew_age < 10:	
rank = junior	
elif age < 18:	
rank = ensign	
else:	
rank = commander	

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immediate exit of loop continue resumes at test condition of the loop

print("loop - iteration #",i)

i=0 while i<10: i=i+1

print("Done")

Loop control

break

List Operatio	ons
Creating an li	st
crew = ['Spoc	sk','McCoy']
Getting first it	em from the list
first = crew[0]	
Get the last it	em from the list
last = crew[-1]
Looping throu	ugh the list
for person in print(perso	crew: n)
Adding items	to a list
crew.append	('Kirk')
Slicing a list	
human=crew	[1:2]
Pointer to a li	st (same data)
crew2=crew	
Duplicate of t	he list (copy of data)
duplicate=cre	ew[:]
Dictionaries	
Creating a die	ctionary
example_dict {1:"Orange" ?	ionary = ?:"Apple" 3:"Banana" 4:"Peach" 5:"Pe
ar"}	
ar"} Accessing a	value
ar"} Accessing a v print (example	value e_dictionary[2])
ar"} Accessing a v print (example Adding a new	value e_dictionary[2]) / key-value pair
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