# 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	laxFunc(x,y):

iei iviaxrunc(x,y).	
if x>y:	
return x	
else:	
return y	

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

Membership 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.

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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	
Identity operators verify that the variables are	

located on the same part of the memory.

Assignmen	t 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	x=x%y
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

#### Sample If Statement

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

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immediate exit of loop

resumes at test condition of the loop

print("loop - iteration #",i)

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

print("Done")

Loop control

break

continue

List Operation	ns
Creating an lis	t
crew = ['Spock	s','McCoy']
Getting first ite	em from the list
first = crew[0]	
Get the last ite	em from the list
last = crew[-1]	
Looping throug	gh the list
for person in c print(person	
Adding items t	o a list
crew.append(	Kirk')
Slicing a list	
human=crew[1	:2]
Pointer to a lis	t (same data)
crew2=crew	
Duplicate of th	e list (copy of data)
duplicate=crev	v[:]
Dictionaries	
Creating a dict	tionary
example_dictio {1:"Orange",2: ar"}	onary = "Apple",3:"Banana",4:"Peach",5:"Pe
Accessing a va	alue
print (example	_dictionary[2])
Adding a new	key-value pair
example_diction	onary[15]="Plum"
Looping throug	gh all key-value pairs
-	nple_dictionary: ample_dictionary[key])
Looping throug	gh all keys
for key in exan print("Key:",	nple_dictionary.keys(): <ey)< td=""></ey)<>
Looping throug	gh all values
for value in exa print("Value:	ample_dictionary.values(): ",value)
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