

Cheatography

Python for Business Analytics (Part 1) Cheat Sheet

by ocivv via cheatography.com/173673/cs/36491/

Data Type		List Operations		Tuple Operations	
Integer	-100, 0, -100	Create a List	L1 = [1, 2, 3, 4, 5, 6]	Create a Tuple	T1 = (1, 2, 3, 4, 5, 6)
Float	-100.98, 0.0001, 90.00	Get the first element	L1[0]	Convert List to Tuple	tuple()
String	'Python', '400', '100+200', 'True'	Get the last element	L1[-1]	Note:	Tuple elements are immutable and cannot be changed via operations.
Boolean	True, False	Count List elements	len()		
Operators		Insert an element	insert()	Set Operations	
Numeric		Insert an element to the end	append()	Create a Set	S1 = {1, 2, 3, 4, 5}
+	Addition	==	Equal	Insert an element	add()
-	Subtraction	!=	Different	Find unique elements	set()
*	Multiplication	>	Higher	Create a Set with all elements from 2 Sets	union()
/	Division	<	Lower	Create a Set with common elements from 2 Sets	intersection()
**	Exponent	>=	Higher or Equal	List Comprehension	
%	Modulus	<=	Lower or Equal	newlist = [expression for variable in sequence if condition]	
//	Floor Division			Conditional Statements	
Boolean		2nd - 5th elements	L1[1:5]	if Condition 1:	Code Block 1
&	Logical AND	+	Concatenation	elif Condition 2:	Code Block 2
	Logical OR			elif Condition 3:	Code Block 3
not	Logical NOT	All alternate elements	L1[::-2]	else:	Code Block 4
Assignment Statement & Expression					
Expression is a combination of values, variables, and operators					
222	'text'	Create a Dict.	D1 = {"Andrew":18, "Johnson":23, "Olivia":22}	for Loops	
25+36	'App' + 'le'	Create a Dict. from two Lists	dict(zip())	for <variable> in <sequence>:	Code Block
Assignment Statement links a variable name on the left hand side of the operator, with an expression on the right hand side.					
a = 222	b = 'text'	Access Dict. value	D1["Andrew"]	Example:	
c = 25 +36	d = 'App' + 'le'	Update Dict. value	D1["Andrew"] = 20	for x in range(0,5):	
a = a + 1		Add an element	D1["Sue"] = 25	print(x)	
		Drop an element	del D1["Johnson"]		
		Count Dict. elements	len()		
		Return all keys	keys()		
		Return all values	values()		



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while Loops

```
while <expression>:  
    Code Block  
  
Example:  
i = 2  
while i <= 10:  
    print(i)  
    i = i + 3
```

Nested loop

```
for iterating_var in sequence:  
    for iterating_var in  
sequence:  
        Code Block1  
        Code Block2  
while <expression>:  
    while <expression>:  
        Code Block1  
        Code Block2
```

Statements used with Loops

break	Terminate the whole loop
continue	Stop the current iteration of the loop, and continue with the next. Loop does not terminate.
pass	Do nothing and continue the rest of the code inside a loop for the current iteration



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