

Python for Business Analytics (Part 1) Cheat Sheet by ocivv via cheatography.com/173673/cs/36491/

Data Type		
Integer	-100, 0, -100	
Float	-100.98, 0.0001, 90.00	
String	'Python', '400', '100+200', 'True'	
Roolean	True False	

Operators	;		
Numeric		Con	nparison
+	Addition	==	Equal
-	Subtra- ction	!=	Different
*	Multpl- ication	>	Higher
/	Division	<	Lower
**	Exponent	>=	Higher or Equal
%	Modulus	<=	Lower or Equal
//	Floor Divisio	n	
Boolean		Strir	ng
&	Logical AND	+	Concat- enation
1	Logical OR		
not	Logical NOT		

Assignment Statement & Expression

Expression is a combination of values, variables, and operators

222	'text'
25+36	'App' + 'le'

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'
c = 25 +36	d = 'App' + 'le'
a = a + 1	

List Operations	
Create a List	L1 = [1, 2, 3, 4, 5, 6]
Get the first element	L1[0]
Get the last element	L1[-1]
Count List elements	len()
Insert an element	insert()
Insert an element to the end	append()
Sort all elements	sort()
Remove an element	pop()
Convert object to List	list()

Slicing	
Slicing Expression	
List Name[start index : stop inde size]	ex : step
(Step size is optional)	
Examples	
2nd - 5th elements	L1[1:5]
2nd - Last elements	L1[1:]
1st - 3rd elements	L1[0:3]

Dictionary (Di	ct.) Operations
Create a Dict.	D1 = {"Andrew":18, "Johnson":23, "Olivia":22}
Create a Dict.	
Access Dict. value	D1["Andrew"]
Update Dict. value	D1["Andrew"] = 20
Add an element	D1["Sue"] = 25
Drop on	del D1[" lobpson"]

		.[0.0]
All alternate elements		1[::2]
Dictionary (Dict.)	Operations	
Create a Dict.	D1 = {"Andrew": nson":23, "Olivia	
Create a Dict. from two Lists	dict(zip())	
Access Dict. value	D1["Andrew"]	
Update Dict. value	D1["Andrew"] =	20
Add an element	D1["Sue"] = 25	
Drop an element	del D1["Johnson	"]
Count Dict. elements	len()	
Return all keys	keys()	
Return all values	values()	

Tuple Operations	
Create a Tuple	T1 = (1, 2, 3, 4, 5, 6)
Convert List to Tuple	tuple()
Note: Tuple element	ts are immutable and via operations.

Set Operations	
Create a Set	S1 = {1, 2, 3, 4, 5}
Insert an element	add()
Find unique elements	set()
Create a Set with all elements from 2 Sets	union()
Create a Set with common elements from 2 Sets	intersect- ion()

List Comprehension

newlist = [expression for variable in sequence if condition]

Conditional Statements

```
if Condition 1:
       Code Block 1
elif Condition 2:
       Code Block 2
elif Condition 3:
       Code Block 3
else:
       Code Block 4
```

for Loops

for <variable> in <sequence>: Code Block Example: for x in range(0,5): pri nt(x)



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while Loops

Nested loop

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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