Cheatography

Python Basics - Lists, Tuples and Dictionaries Cheat Sheet by Mario (mariofreitas) via cheatography.com/42813/cs/13210/

Lists and Tuples Syntax		
L = [1, 2, 3, 4, 5]	Lists are created with []	
T = (10, 20, 30, 40, 50)	Tuples are created with ()	
L[0]	Returns 1st element of L (1)	
т[0]	Returns 1st element of T (10)	
L[1:4]	Returns 2nd to 4th element of <i>L</i> ([2, 3, 4])	
T[1:4]	Returns 2nd to 4th element of <i>T</i> ((20, 30, 40))	
L[0:-1:2]	Returns 1st to 2nd last element of <i>L</i> skipping one at a time ([1, 3])	
T[0:-1:2]	Returns 1st to 2nd last element of <i>L</i> skipping one at a time ((10, 30))	
L[1] = 22	Assigns 22 to 2nd element of L (L == [1, 22, 3, 4, 5])	
T[1] = 22	ERROR: You can't assing anything to tuples	
L[0:2] = [11, 22]	Assigns 11 and 22 to 1st and 2nd element of L respectively (L == $[11, 22, 3, 4, 5]$)	
Lists are mutable and Tuples are NOT mutable		

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Lists - Methods

a = ['a', 'b', 'c']

b = [1, 3, 2]

a + b	Returns <i>a</i> concatenated with <i>b</i> (['a', 'b', 'c', 1, 3, 2])
'c' in a	Returns <i>True</i> if 'c' is in the list <i>a</i> and <i>False</i> otherwise (True)
len(a)	Returns the number of elements in <i>a</i> (3)
a.append('d')	Appends 'd' to the end of the list <i>a</i> (a == ['a', 'b', 'c', 'd'])
a.extend(['d', 'e', 'f'])	Appends every element of the iterable to the end of <i>a</i> (a == ['a', 'b', 'c', 'd', 'e', 'f'])
a.insert(1, 'd')	Inserts 'd' to index 1 of a (a == ['a', 'd', 'b', 'c'])
a.pop()	Returns the last element of the list and deletes it from the list. ('c')

Lists - Methods (cont)		
a.pop(1)	Returns 2nd element of <i>a</i> and removes it from the list ('b')	
a.remove('b')	Removes first occurrence of 'b' in a (a == ['a', 'c'])	
a.clear()	Clears the list entirely $(a == [])$	
a.index('b')	Returns the index of the first occurrence of $b'(1)$	
a.count('b')	Returns the number of occurrences of b' in $a(1)$	
b.sort()	Returns a sorted version of b ([1, 2, 3])	
a.reverse()	Reverses the list <i>a</i> (['c', 'b', 'a'])	
a.copy()	Returns a copy of a	

The copy() method returns a list identical to the original, but with a different ID. It means that they are allocated in different places of memory.

Tuple - Methods		
t1 = ('a', 'b', 'c')		
t2 = (1, 2, 3)		
t1 + t2	Returns a concatenated version of t1 and t2	
2 in t2	Returns <i>True</i> if 2 is in t2 and <i>False</i> otherwise (True)	
len(t1)	Returns the number of elements in $t1$ (3)	
t2.count(2)	Returns the number of occurrences of $2 \text{ in } t2$ (1)	
t2.index(1)	Returns the index of the 1st occurrence of 1 (0)	

Lists - Loops 1

a = ['one' , 'two', 'three']
for i in a:
 print(i)
one

two three

Lists - Loops 2
a = ['one' , 'two', 'three']
<pre>for i in range(len(a)):</pre>
<pre>print(f"a[{i}] == {a[i]}")</pre>
a[0] == one

a[1] == two

a[2] == three

С

By **Mario** (mariofreitas) cheatography.com/mariofreitas/ github.com/MarioRaul/ Not published yet. Last updated 21st October, 2017. Page 1 of 1. Sponsored by **ApolloPad.com** Everyone has a novel in them. Finish Yours! https://apollopad.com