Python Cheat Sheet: Functions and Tricks

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		Description	Example	Result
A map(func,	iter)	Executes the function on all elements of the iterable	<pre>list(map(lambda x: x[0], ['red', 'green', 'blue']))</pre>	['r', 'g', 'b']
Wap(func, i1,, ik)		Executes the function on all k elements of the k iterables	<pre>list(map(lambda x, y: str(x) + ' ' + y + 's' , [0, 2, 2], ['apple', 'orange', 'banana']))</pre>	['0 apples', '2 oranges', '2 bananas']
string.join(iter)		Concatenates iterable elements separated by string	<pre>' marries '.join(list(['Alice',</pre>	'Alice marries Bob'
filter(func, U iterable)		Filters out elements in iterable for which function returns False (or 0)	<pre>list(filter(lambda x: True if x>17 else False, [1, 15, 17, 18]))</pre>	[18]
c string.strip()		Removes leading and trailing whitespaces of string	<pre>print("\n \t 42 \t ".strip())</pre>	42
<pre>sorted(iter) sorted(iter) sorted(iter, key=key) help(func) zip(i1, i2,) Unzip</pre>		Sorts iterable in ascending order	sorted([8, 3, 2, 42, 5])	[2, 3, 5, 8, 42]
		Sorts according to the key function in ascending order	<pre>sorted([8, 3, 2, 42, 5], key=lambda x: 0 if x==42 else x)</pre>	[42, 2, 3, 5, 8]
		Returns documentation of func	help(str.upper())	' to uppercase.'
		Groups the i-th elements of iterators i1, i2, together	<pre>list(zip(['Alice', 'Anna'], ['Bob', 'Jon', 'Frank']))</pre>	[('Alice', 'Bob'), ('Anna', 'Jon')]
		Equal to: 1) unpack the zipped list, 2) zip the result	<pre>list(zip(*[('Alice', 'Bob'), ('Anna', 'Jon')]))</pre>	[('Alice', 'Anna'), ('Bob', 'Jon')]
enumerate	e(iter)	Assigns a counter value to each element of the iterable	<pre>list(enumerate(['Alice', 'Bob', 'Jon']))</pre>	[(0, 'Alice'), (1, 'Bob'), (2, 'Jon')]
T python -m R <p></p>	http.server		? Run this command in PC's shell. <p> is any port number 0–65535. Type < ser. You can now browse the files in the PC directory.</p>	
C Read comic	С	import antigravity	Open the comic series xkcd in your web browser	
S Zen of Pyth	non	import this	'Beautiful is better than ugly. Explicit is'	
Swapping r	numbers	Swapping variables is a breeze in Python. No offense, Java!	a, b = 'Jane', 'Alice' a, b = b, a	a = 'Alice' b = 'Jane'
Unpacking arguments		Use a sequence as function arguments via asterisk operator *. Use a dictionary (key, value) via double asterisk operator **	<pre>def f(x, y, z): return x + y * z f(*[1, 3, 4]) f(**{'z' : 4, 'x' : 1, 'y' : 3})</pre>	13 13
Extended \	Jnpacking	Use unpacking for multiple assignment feature in Python	a, *b = [1, 2, 3, 4, 5]	a = 1 b = [2, 3, 4, 5]
Merge two dictionaries		Use unpacking to merge two dictionaries into a single one	x={'Alice' : 18} y={'Bob' : 27, 'Ann' : 22} z = {**x,**y}	z = {'Alice': 18, 'Bob': 27, 'Ann': 22}

