zip and filter in python

Hi I am struggling with this can someone help? "Write code using zip and filter so that these lists (l1 and l2) are combined into one big list and assigned to the variable opposites if they are both longer than 3 characters each." data:

```
l1 = ['left', 'up', 'front']
l2 = ['right', 'down', 'back']
```

this is what I have:

```
l3=list(zip(l1,l2))
opposites=list(filter(lambda s:len(s)>3,l3))
```

The problem is that I need two arguments to be more than length 3.

python   filter   zip   Edit tags

edited Jul 18 '19 at 20:59
skytaker
3,072   1   17   27

asked Jul 18 '19 at 20:54
zachi
445   3   9

4 Answers

Active | Oldest | Votes

You could use this piece of code:

```
opposites=filter(lambda tup : len(tuple[0])>3 and len(tuple[1])>3,zip(l1,l2))
```

edited Sep 3 at 14:46
Adrian Mole
22.6k   13   27   44

answered Sep 3 at 8:27
varun-joshi1509
1   1

I do it like this, using list comprehensions:

```
opposites = [(w1,w2) for (w1,w2) in list(zip(l1,l2)) if len(w1) > 3 and len(w2) > 3]
```

edited Feb 16 at 15:22
Adrian Mole
22.6k   13   27   44

answered Feb 16 at 15:03
user11323925
1

There is no need to create a third list, `l3 = zip(l1, l2)` of tuples outside the `filter()`. The `zip(l1, l2)` will provide the required sequence of tuples.

```
opposites = list(filter(lambda x: (len(x[0]) > 3 and len(x[1]) > 3), zip(l1, l2)))
```

edited Dec 26 '19 at 5:11

Bruce
1,513 3 15 19

answered Dec 26 '19 at 4:34

user12598640
1

I guess you can do it like this

```
l1 = ['left', 'up', 'front']
l2 = ['right', 'down', 'back']
l3 = zip(l1, l2)
opposites=list(filter(lambda s:len(s[0])>3 and len(s[1]) >3 ,l3))
```

edited Jul 18 '19 at 21:21

Masoud
1,162 4 12

answered Jul 18 '19 at 21:04

lhopital
29 1 5

Thank you very much , very helpfull – zachi Jul 19 '19 at 2:20