Untitled

March 25, 2021

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In [7]: # List Comprehension - applying same operation over a list
In [8]: x = [1,2,3,4,5]
In [9]: lst=[num**2 for num in x]
In [10]: 1st
Out[10]: [1, 4, 9, 16, 25]
In [11]: # Map - applying the same external function over a list
In [12]: def times2(toDo):
             return toDo*2
In [13]: map(times2,x) #qives just address, need to be broadcasted by list (same issue for map
Out[13]: <map at 0x7fc14801f5f8>
In [14]: list(map(times2,x))
Out[14]: [2, 4, 6, 8, 10]
In [ ]: # Lambda - applying inline function over a list
In [15]: list(map(lambda num:num*2, x))
Out[15]: [2, 4, 6, 8, 10]
In [17]: # Filter - runnilg lambda function for filtering on a condition
In [19]: list(filter(lambda num:num%2==0, x))
Out[19]: [2, 4]
In [20]: # Zip - putting to lists in a list of tuples of couples
In [21]: a=["A","B", "C"]
In [23]: b=[1,2,3,4]
```