Python

使用列表排序：

>>>L = [('b',2),('a',1),('c',3),('d',4)]

>>>import operator

>>>L.sort(key=operator.itemgetter(1))

>>>L

>>>[('a', 1), ('b', 2), ('c', 3), ('d', 4)]

>>>L.sort(key=operator.itemgetter(1),reverse=True)

>>>L

>>>[('d', 4), ('c', 3), ('b', 2), ('a', 1)]

使用lambda对list排序：

>>>L = [('b',6),('a',1),('c',3),('d',4)]

>>>L.sort(key=lambda x:x[1])

>>>L

>>>[('a', 1), ('c', 3), ('d', 4), ('b', 6)]

>>>L.sort(key=lambda x:x[0],reverse=True)

>>>L

>>>[('d', 4), ('c', 3), ('b', 6), ('a', 1)]

先对第一个排序，再对第二个排序［使用lambda］：

>>>.L = [('d',2),('a',4),('b',3),('c',2)]

>>>L.sort(key=lambda x:(x[1],x[0]))

>>>L

>>>[('c', 2), ('d', 2), ('b', 3), ('a', 4)]

先对第一个排序，再对第二个排序［使用lambda］：

>>>L = [('d',2),('a',4),('b',3),('c',2)]

>>>L.sort(key=operator.itemgetter(0,1))

>>>L

>>> [('a', 4), ('b', 3), ('c', 2), ('d', 2)]

使用numpy数组排序：

>>>import numpy as np

>>>m=np.array([[0,3,4],[7,7,7],[3,1,8]])

>>> from operator import itemgetter

>>> sorted(m,key=itemgetter(0))

[array([0, 3, 4]), array([3, 1, 8]), array([7, 7, 7])]

>>> sorted(m,key=itemgetter(1))

[array([3, 1, 8]), array([0, 3, 4]), array([7, 7, 7])]

>>> sorted(m,key=itemgetter(2))

[array([0, 3, 4]), array([7, 7, 7]), array([3, 1, 8])]

numpy字符串数组转变成数字：

>>> a = np.array([['-0.99', '', '0.56', '0.56', '-2.02', '-0.96']])

>>> a[a == ''] = 0.0

>>> a = a.tolist()

>>> a

[['-0.99', '0.0', '0.56', '0.56', '-2.02', '-0.96']]

list列表排序（数字为字符串形式）：

>>> L=[['1.3','Jake'],['3.2','kity'],['0.1','John']]

>>> import operator

>>> L.sort(key=operator.itemgetter(0))

>>> L

[['0.1', 'John'], ['1.3', 'Jake'], ['3.2', 'kity']]

>>> L.sort(key=operator.itemgetter(0),reverse=True)

>>> L

[['3.2', 'kity'], ['1.3', 'Jake'], ['0.1', 'John']]

数组

>>> b=Student("kid",12)

>>> c=Student("Nake",20)

>>> d=Student("Kisy",15)

>>> d=[b,c,d]

>>> e=list(([i.get\_score(),i] for i in d))

>>> e

[[12, <\_\_main\_\_.Student object at 0x101a2eb00>], [20, <\_\_main\_\_.Student object at 0x107330748>], [15, <\_\_main\_\_.Student object at 0x1073307b8>]]

>>> import operator

>>> e.sort(key=operator.itemgetter(0))

>>> e

[[12, <\_\_main\_\_.Student object at 0x101a2eb00>], [15, <\_\_main\_\_.Student object at 0x1073307b8>], [20, <\_\_main\_\_.Student object at 0x107330748>]]

>>> e[0][1].get\_name()

'kid'