データの読み込み

import numpy as np

arr1=np.loadtxt('testdata.txt',delimiter=',')

print(arr1)

print()

print('平均'+str(np.mean(arr1,axis=0)))

print('平均'+str(np.mean(arr1,axis=1)))

print('中央'+str(np.median(arr1,axis=0)))

print('中央'+str(np.median(arr1,axis=1)))

print('偏差'+str(np.std(arr1,axis=0)))

print('偏差'+str(np.std(arr1,axis=1)))

データ保存

import numpy as np

arr1=np.random.randint(0,100,(10,10))

print(arr1)

np.savetxt('testdata2.txt',arr1,delimiter=',')

print('データをファイルに保存しました')

ソート

import numpy as np

arr1=np.random.randint(0,10,(3,3))

arr2=np.sort(arr1,axis=0)

arr3=np.sort(arr1,axis=1)

print(arr1)

print()

print(arr2)

print()

print(arr3)

import numpy as np

arr1=np.random.randint(0,10,(3,3))

arr2=np.sort(arr1,axis=1)

print(arr2)

print()

print(arr2[::-1])

print()

print(arr2[::,::-1])

スライスimport numpy as np

arr1=np.arange(100).reshape(10,10)

print(arr1)

print()

print(arr1[0:5:1,0:5:1])

print()

print(arr1[5:10:1,5:10:1])

print()

print(arr1[0:10:2,0:10:2])