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| from typing import Dict, List, Any, Tuple, Union |
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|  | from pymongo import MongoClient |
|  | from bson.objectid import ObjectId |
|  | import random |
|  | import string |
|  | import pymatlab as pm |
|  | import pandas |
|  | import numpy |
|  | import matplotlib.pyplot as plt |
|  | conn = MongoClient('127.0.0.1',27017) |
|  | db = conn.mydb |
|  | my\_set=db.test\_set |
|  | my\_set.remove(None) |
|  | def fun(): |
|  | for i in range(100000): |
|  | x = random.uniform(1, 10000) |
|  | y = ''.join(random.sample(string.ascii\_letters + string.digits, 8)) |
|  | z = random.randint(1, 100000) |
|  | n=random.randint(1,10) |
|  | dit = {random.choice('abcdefghijklmnopqrstuvmxyz'): random.sample(string.ascii\_letters, n)} |
|  | a = (x, y, z, dit) |
|  | yield a |
|  | dit1={'float':x,'string':y,'int':z,'dict':dit} |
|  | my\_set.insert\_one(dit1) |
|  | g=fun() |
|  | while True : |
|  | try: |
|  | y = next(g) |
|  | print(y) |
|  | except StopIteration as e: |
|  | print(e.value) |
|  | break |
|  | sss=plt.figure() |
|  | data=pandas.DataFrame(list(my\_set.find())) |
|  | data1=data['int'] |
|  | data2=data['float'] |
|  | ss=sss.add\_subplot(1,2,1) |
|  | s=sss.add\_subplot(1,2,2) |
|  | x=numpy.arange(1,100001) |
|  | ss.set\_title('Scatter int') |
|  | s.set\_title('Scatter float') |
|  | plt.xlabel('x') |
|  | plt.ylabel("y") |
|  | plt.legend('int') |
|  | plt.legend('float') |
|  | ss.scatter(x,data1,c='b',marker='x') |
|  | s.scatter(x,data2,c='g',marker='s') |
|  | plt.show() |
|  | all1=my\_set.find() |
|  | for i in all1: |
|  | print(i) |