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import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import seaborn as sns

air = pd.read_csv('airquality.csv')
air

_, axes = plt.subplots(1, 2, sharey=True, figsize=(10,4))
sns.boxplot(x='Ozone', y='Temp', data=air, ax=axes[0])
sns.violinplot(x='Ozone', y='Temp', data=air, ax=axes[1])

sns.boxplot(data=air.select_dtypes(include='number'))

plt.scatter(air['Ozone'], air['Temp'])

from mpl_toolkits.mplot3d import Axes3D
x = [1,2,3,4,5,6,7,8,9,10]
y = [5,6,2,3,13,4,1,2,4,8]
z = [2,3,3,3,5,7,9,11,9,10]

sns.set(rc={'figure.figsize': (8,5)})
fig = plt.figure()
ax = fig.add_subplot(111, projection='3d')
ax = scatter(x,y,z, c='r', marker='o')

ax.set_xlabel('X Label'), ax.set_ylabel('Y Label'), ax.set_zlabel(Z Label)
plt.show()

features = ['Ozone', 'Temp']
air[features].hist(figsize=(10,4))

cars = ['AUDI', 'BMW', 'FORD', 'TESLA', 'JAGUAR', 'MERCEDES']
data= [23, 17, 35, 29, 12, 41]

fig = plt.figure(figsize=(10,7))
plt.pie(data, labels=cars)
plt.show()

explode = (0.1, 0.0, 0.2, 0.3, 0.0, 0.0)
colors = ("orange","cyan","brown","grey","indigo","beige")
wp = {'linewidth' : 1, 'edgecolor' : "green"}

def func(pct, allvalues):
    absolute= int(pct / 100.*np.sum(allvalues))
    return "{:.1f}%\n({:d} g)".format(pct, absolute)

fig, ax = plt.subplots(figsize=(10,7))
wedges, texts, autotexts = ax.pie(data, autopct=lambda pct:
func(pct, data), explode=explode, labels=cars,
shadow=True, colors=colors, startangle=90,

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wedgeprops = wp,  
    textprops = dict(color="magenta"))  
plt.show()
```