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Python Lab 16

1/13/2020

#1. Create a new script called Script15Lab.py.  
#2. Find a dataset on the internet and load into a Pandas dataframe.  
#3. Create 5 different charts and explain what the data is showing  
  
  
import matplotlib.pyplot as plt  
import pandas as pd  
  
plt.plot([1,2,3], [5,7,4])  
plt.show()  
  
spotify = pd.read\_csv('https://www.kaggle.com/leonardopena/top50spotify2019')  
print(spotify.head)  
  
AvgSongByPop = spotify.groupby('genre').popularity.mean().plot(color = 'green')  
plt.show(AvgSongByPop)  
# This data is showing the average song by popularity and is group by the types of genre.The line is colored in  
# green and also shows that the top genre is electropop by Billie Eilish's song, "Bad Guy."  
  
  
AvgSongByPop = spotify.groupby('genre').popularity.mean().plot(kind= 'bar')  
plt.show(AvgSongByPop)  
#This data shows the average song by popularity and is group by the types of genre, but in a bar graph.  
  
AvgSongByPop = spotify.groupby('genre').popularity.mean().plot(kind= 'pie')  
plt.show(AvgSongByPop)  
#This data shows the average song by popularity and is group by the types of genre, but in a pie graph.  
  
AvgSongByPop = spotify.groupby('genre').popularity.mean().plot(kind= 'barh')  
plt.show(AvgSongByPop)  
#This data shows the average song by popularity and is group by the types of genre, but in a bar graph that is horizontal.  
  
AvgSongByPop = spotify.groupby('genre').popularity.sum().plot(kind= 'hist')  
plt.show(AvgSongByPop)  
#This data shows the average song by popularity and is group by the types of genre, but in a histogram bar graph.