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# Шаг 0. Импорт библиотек Python, необходимых для работы.
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

# Шаг 1. Выбор данных.
anime = pd.read_csv('/Users/vladislavsolovev/Desktop/Стратегия/PET - проекты/Anime_Selection/anime-filtered.csv')
print(anime)
print("1 список")

# Шаг 2. Создание выборок по заданным критериям.
# Аниме-студия Sunrise.
Sunrise = anime[['Name', 'Score', 'Source', 'Studios', 'Watching']]
Sunrise_studios = Sunrise.loc[Sunrise['Studios'] == "Sunrise"]
Sunrise_score = Sunrise_studios.loc[Sunrise_studios['Score'] >= 7]
print(Sunrise_score)
SSc = len(Sunrise_score)
print(SSc)
print("2 список")
Sunrise_source = Sunrise_studios.loc[Sunrise_studios['Source'] == "Manga"]
print(Sunrise_source)
SSo = len(Sunrise_source)
print(SSo)
print("3 список")
Sunrise_watching = Sunrise_studios.loc[Sunrise_studios['Watching'] >= 10000]
print(Sunrise_watching)
SW = len(Sunrise_watching)
print(SW)
print("4 список")
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# Аниме-студия Studio Pierrot.
Studio_Pierrot = anime[['Name', 'Score', 'Source', 'Studios', 'Watching']]
Studio_Pierrot_studios = Studio_Pierrot.loc[Studio_Pierrot['Studios'] == "Studio Pierrot"]
Studio_Pierrot_score = Studio_Pierrot_studios.loc[Studio_Pierrot_studios['Score'] >= 7]
print(Studio_Pierrot_score)
SPSc = len(Studio_Pierrot_score)
print(SPSc)
print("5 список")
Studio_Pierrot_source = Studio_Pierrot_studios.loc[Studio_Pierrot_studios['Source'] == "Manga"]
print(Studio_Pierrot_source)
SPSo = len(Studio_Pierrot_source)
print(SPSo)
print("6 список")
Studio_Pierrot_watching = Studio_Pierrot_studios.loc[Studio_Pierrot_studios['Watching'] >= 10000]
print(Studio_Pierrot_watching)
SPW = len(Studio_Pierrot_watching)
print(SPW)
print("7 список")

# Аниме-студия Xebec.
Xebec = anime[['Name', 'Score', 'Source', 'Studios', 'Watching']]
Xebec_studios = Xebec.loc[Xebec['Studios'] == "Xebec"]
Xebec_score = Xebec_studios.loc[Xebec_studios['Score'] >= 7]
print(Xebec_score)
XSc = len(Xebec_score)
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print(XSc)
print("8 список")
Xebec_source = Xebec_studios.loc[Xebec_studios['Source'] == "Manga"]
print(Xebec_source)
XSo = len(Xebec_source)
print(XSo)
print("9 список")
Xebec_watching = Xebec_studios.loc[Xebec_studios['Watching'] >= 10000]
print(Xebec_watching)
XW = len(Xebec_watching)
print(XW)
print("10 список")

# Шаг 3. Подготовка одномерных массивов для визуализации.
S1 = np.array(["Sunrise"])
print(S1)
SP1 = np.array(["Studio Pierrot"])
print(SP1)
X1 = np.array(["Xebec"])
print(X1)

S2 = np.array(["Sunrise"])
print(S2)
SP2 = np.array(["Studio Pierrot"])
print(SP2)
X2 = np.array(["Xebec"])
print(X2)

S3 = np.array(["Sunrise"])
print(S3)
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SP3 = np.array(["Studio Pierrot"])
print(SP3)
X3 = np.array(["Xebec"])
print(X3)

# Шаг 4. Визуализация полученных данных.
plt.title("Рейтинговые аниме", color = "indigo", fontsize = 18)
plt.bar(S1, SSc, color = "fuchsia")
plt.bar(SP1, SPSc, color = "darkviolet")
plt.bar(X1, XSc, color = "mediumblue")
plt.show()

plt.title("Манга - источник аниме", color = "indigo", fontsize = 18)
plt.stem(S2, SSo, linefmt = 'r--.', markerfmt = '^')
plt.stem(SP2, SPSo, linefmt = 'c--.', markerfmt = '^')
plt.stem(X2, XSo, linefmt = 'm--.', markerfmt = '^')
plt.show()

plt.title("Количество просмотров аниме", color = "indigo", fontsize = 18)
vals = [15, 16, 8]
labels = ["Sunrise", "Studio Pierrot", "Xebec"]
plt.pie(vals, labels=labels)
plt.show()
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