

test

May 23, 2023

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- “ ” - , :
- 1. 5 (5 -).
- 2. - “ ”
- 3. , 5 .
- 4. data-to-viz. data-to-viz. ,
- 5. “ ”
- github.

0.0.1

, kaggle \Rightarrow [Netflix TV Shows and Movies](#)

```
[ ]: import plotly.express as px
from plotly import graph_objects
import pandas as pd
```

```
[ ]: # id,
df = pd.read_csv('titles.csv')
df.drop(columns=['id'], inplace=True)
```

0.0.2

pie chart

```
[ ]: def to_list(s: str):
    s = s.replace('\'', '')
    s = s.replace('[', '')
```

```

s = s.replace(']', '')
s = s.replace(',', ', ')
if s == '':
    return ['None']
return s.split(',')

df['genres'] = df['genres'].apply(to_list)

```

0.0.3

```

[ ]: unique_genres = set()
for genres in df['genres']:
    unique_genres = unique_genres | set(genres)

unique_genres = list(unique_genres)
genres_dict = dict()
for genre in unique_genres:
    genres_dict.update({genre: 0})

for genres in df['genres']:
    for genre in genres:
        genres_dict[genre] += 1

genres_dict.pop('None')

```

```
[ ]: 59
```

0.0.4 1. Pie Chart

```

[ ]: data = genres_dict.values()
labels = genres_dict.keys()

#plotly
fig = px.pie(None, labels, data)
fig.show()

```

0.0.5 2. ,

```

[ ]: fig = px.line(df, x="release_year", y="imdb_score", color="release_year")
fig.update_traces(textposition="bottom right")
fig.show()

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0.0.6 3. ,

```
[ ]: fig = px.violin(df, y="imdb_votes")
fig.show()
```

0.0.7 4. , ,

```
[ ]: # print(df.columns)
# df['age_certification'].unique()
df['production_countries'] = df['production_countries'].apply(to_list)
```

```
[ ]: unique_countres = set()
for countres in df['production_countries']:
    unique_countres = unique_countres | set(countres)

unique_countres = list(unique_countres)
countres_dict = dict()
for genre in unique_countres:
    countres_dict.update({genre: 0})

for countres in df['production_countries']:
    for contry in countres:
        countres_dict[contry] += 1

countres_dict.pop('None')
len(countres_dict)

fig = px.area(None, x=countres_dict.keys(), y=countres_dict.values())
fig.show()
```

0.0.8 5. , -

```
[ ]: ac = dict()
for key in df['age_certification'].unique():
    ac.update({key: 0})

for key in df['age_certification']:
    ac[key] += 1

fig = px.histogram(x=ac.keys(), y=ac.values())
fig.show()
```