Netflix movie analysis project

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Problems to solve:

- What is the most frequent Genre of movies released on Netflix?
- What genres has highest votes?
- What movie got the highest popularity? What's its genre?
- What movie got the lowest popularity? What's its genre?
- Which year has the most filmed movies ?🍿

Title	Popularity	Vote_Count	Vote_Average
No Way Home	5083.954	8940	popular
The Batman	3827.658	1151	popular
No Exit	2618.087	122	below_avg
Encanto	2402.201	5076	popular
The King's Man	1895.511	1793	average

[160]:
```
Release_Date       102
Title             9513
Popularity        8160
Vote_Count        3266
Vote_Average         4
Genre               19
dtype: int64
```
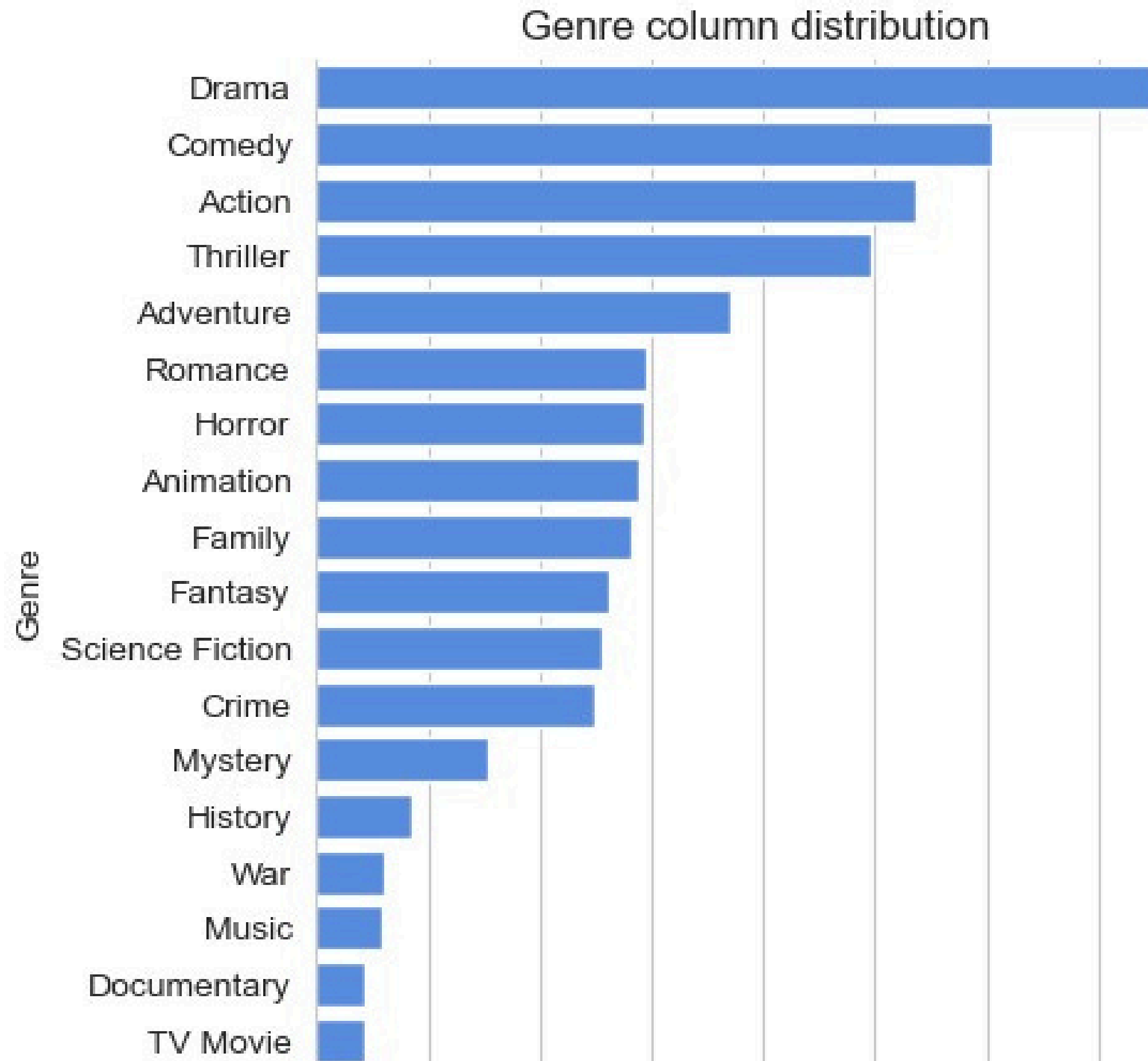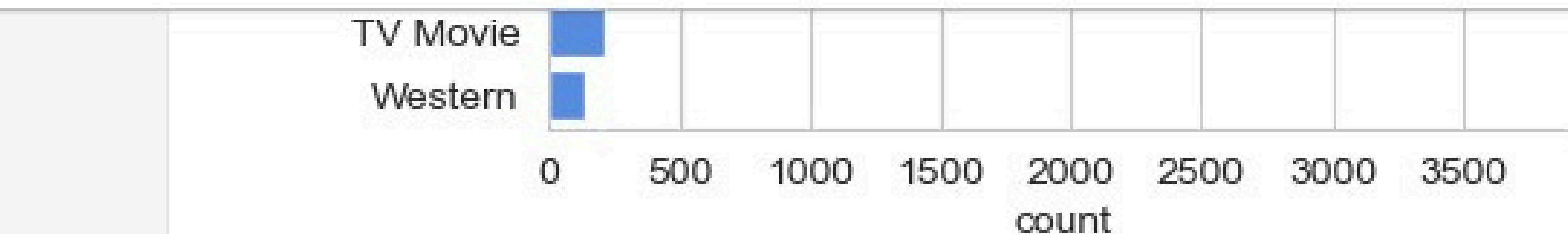
Data Visualization

[156]: `sns.set_style('whitegrid')`

[158]: `df['Genre'].describe()`

[158]:
```
count     25793
unique       19
top       Drama
freq       3744
Name: Genre, dtype: object
```

[164]:
```python
sns.catplot(y = 'Genre',data = df, kind = 'count',
            order = df['Genre'].value_counts().index,
            color = '#4287f5')
plt.title('Genre column distribution')
```
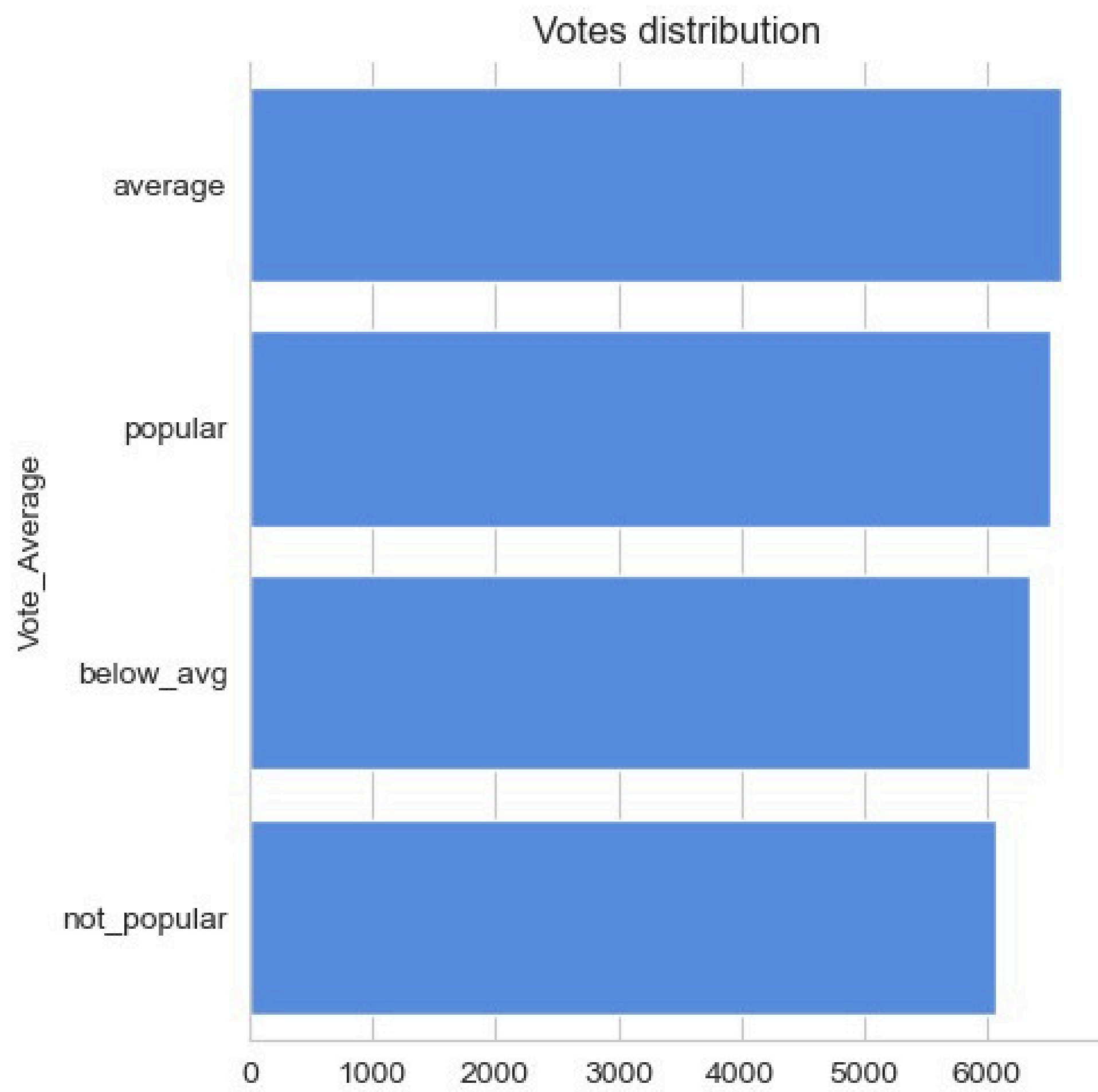
[164]: `<function matplotlib.pyplot.show(close=None, block=None)>`

Genre column distribution

which has highest votes in vote avg column?

```
[169]:   sns.catplot(y = 'Vote_Average', data = df, kind = 'count',
                     order = df['Vote_Average'].value_counts().index,
                     color = '#4287f5')
         plt.title('Votes distribution')
         plt.show()
```

Votes distribution

Run   Kernel   Settings   Help

| | | | | | Code | ∨ | | | | JupyterLab |

| 2021-12-15 | Spider-Man: No Way Home | Peter Parker is unmasked and no longer able to... | 5083.954 | 8940 | 8.3 | en | Action, Adventure, Science Fiction | https://image.tmdb.org |

```
f['Popularity'] == df['Popularity'].min()]
```

Release_Date	Title	Overview	Popularity	Vote_Count	Vote_Average	Original_Language		Genre	
2021-03-31	The United States vs. Billie Holiday	Billie Holiday spent much of her career being ...	13.354	152	6.7	en		Music, Drama, History	https://image.tmdb.org
1984-09-23	Threads	Documentary style account of a nuclear holocau...	13.354	186	7.8	en		War, Drama, Science Fiction	https://image.tmdb.org/

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```
[23]: df.head(2)
```

[23]:

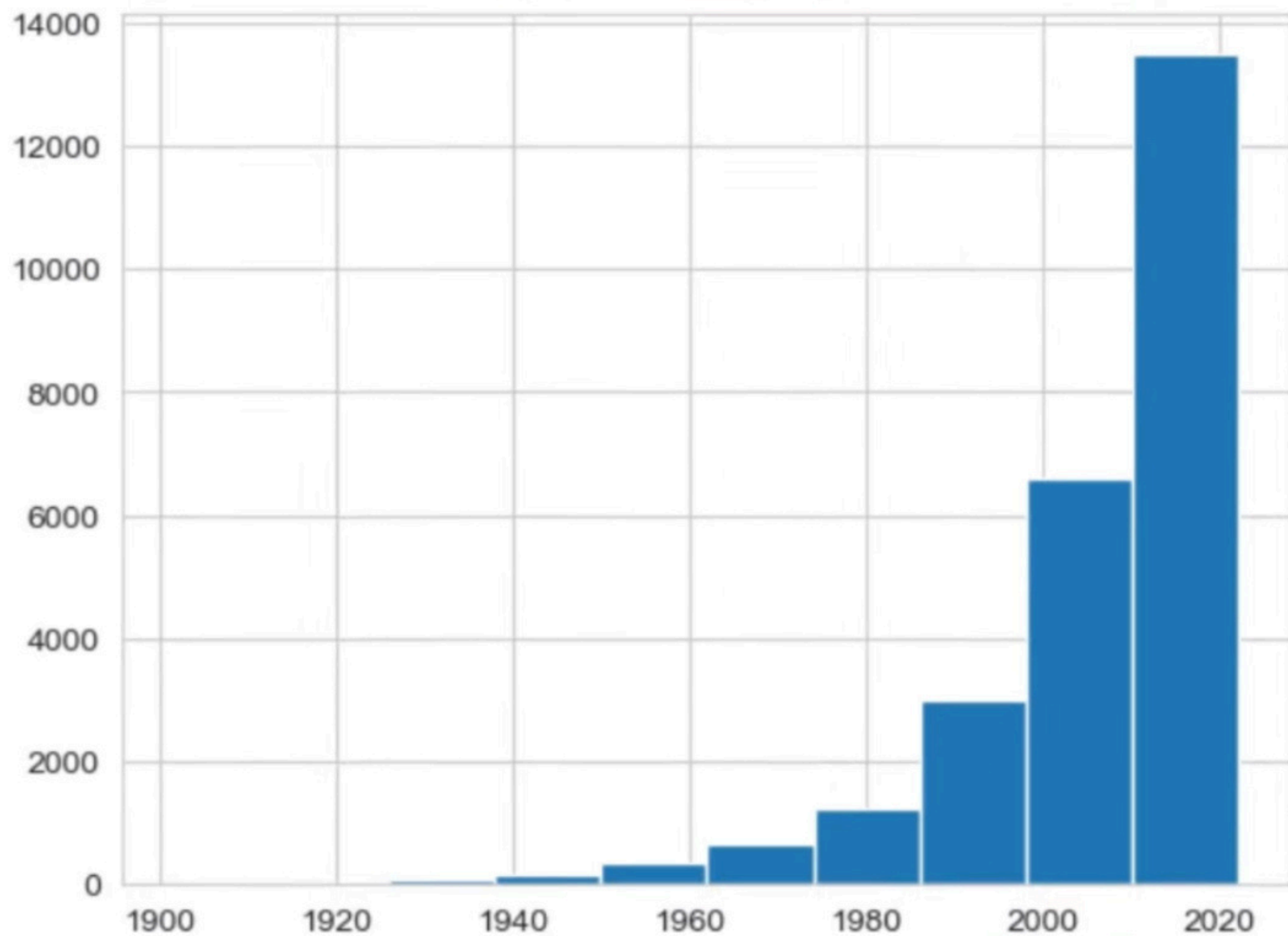|	Release_Date	Title	Overview	Popularity	Vote_Count	Vote_Average	Original_Language	Genre	
0	2021-12-15	Spider-Man: No Way Home	Peter Parker is unmasked and no longer able to...	5083.954	8940	8.3	en	Action, Adventure, Science Fiction	https://image.tmdb.org/t/p/original/
1	2022-03-01	The Batman	In his second year of fighting crime, Batman u...	3827.658	1151	8.1	en	Crime, Mystery, Thriller	https://image.tmdb.org/t/p/original/

df[df['Popularity'] == df['Popularity'].max()]

```
[26]: df[df['Popularity'] == df['Popularity'].max()]
```

[26]:

	Release_Date	Title	Overview	Popularity	Vote_Count	Vote_Average	Original_Language	Genre	
0	2021-12-15	Spider-Man: No Way Home	Peter Parker is unmasked and no longer able to...	5083.954	8940	8.3	en	Action, Adventure, Science Fiction	https://image.tmdb.org/t/p/original/

ReleaSE Date column distribution

Solutions:

- Drama genre is the most frequent genre in our dataset and has appeared more than 14% of the times among 19 other genres.
- We have 25.5% of our dataset with popular vote (6520 rows) . Drama again gets the highest popularity among fans by being having more than 18.5% movies.
- No way home has the highest popularity rate in our dataset .
- The United States ,thread has the lowest rate in our dataset.
- Year 2020 has the highest filming rate in our dataset.