2021

Disney and Netflix Comparative Analysis

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Index

Netflix Movies and TV Shows

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

```python
netflix_df = pd.read_csv('../input/netflix-shows/netflix_titles.csv')
netflix_df
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town t...
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To protect his family from a powerful drug lor...
3	s4	TV Show	Jailbirds New Orleans	NaN	NaN	NaN	September 24, 2021	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down amo...
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV ...	In a city of coaching centers known to train l...
...	...	...	...	...	...	...	...	...	...	...	...	...
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	November 20, 2019	2007	R	158 min	Cult Movies, Dramas, Thrillers	A political cartoonist, a crime reporter and a...
8803	s8804	TV Show	Zombie Dumb	NaN	NaN	NaN	July 1, 2019	2018	TV-Y7	2 Seasons	Kids' TV, Korean TV Shows, TV Comedies	While living alone in a spooky town, a young g...
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	2009	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	2006	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero...
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	2015	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

```python
mask = netflix_df['release_year'] > 1995
netflix = netflix_df[mask]
```

```python
mask = netflix['type'] == 'Movie'
netflix_movies = netflix[mask]
mask = netflix['type'] == 'TV Show'
netflix_shows = netflix[mask]
```

Columns

show_id
type
title
director
cast
country
date_added
release_year
rating
duration
listed_indescription
description

Disney Movies and TV Shows

```
disney_df = pd.read_csv('../input/disney-movies-and-tv-shows/disney_plus_titles.csv')
disney_df
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	A Spark Story	Jason Sterman, Leanne Dare	Apthon Corbin, Louis Gonzales	NaN	September 24, 2021	2021	TV-PG	88 min	Documentary	Two Pixar filmmakers strive to bring their uni...
1	s2	Movie	Spooky Buddies	Robert Vince	Tucker Albrizzi, Diedrich Bader, Ameko Eks Mas...	United States, Canada	September 24, 2021	2011	G	93 min	Comedy, Fantasy, Kids	The puppies go on a spooky adventure through a...
2	s3	Movie	The Fault in Our Stars	Josh Boone	Shailene Woodley, Ansel Elgort, Laura Dern, Sa...	United States	September 24, 2021	2014	PG-13	127 min	Coming of Age, Drama, Romance	Hazel and Gus share a love that sweeps them on...
3	s4	TV Show	Dog: Impossible	NaN	Matt Beisner	United States	September 22, 2021	2019	TV-PG	2 Seasons	Animals & Nature, Docuseries, Family	Matt Beisner uses unique approaches to modifyi...
4	s5	TV Show	Spidey And His Amazing Friends	NaN	Benjamin Valic, Lily Sanfelippo, Jakari Fraser...	United States	September 22, 2021	2021	TV-Y	1 Season	Action-Adventure, Animation, Kids	Spidey teams up with pals to become The Spidey...
...	...	...	...	...	...	...	...	...	...	...	...	...
1363	s1364	Movie	The Sword in the Stone	Wolfgang Reitherman	Sebastian Cabot, Karl Swenson, Rickie Sorensen...	United States	October 1, 2019	1963	G	80 min	Action-Adventure, Animation, Comedy	Merlin trains a young orphan who's destined to...
1364	s1365	Movie	Those Calloways	Norman Tokar	Brian Keith, Vera Miles, Brandon de Wilde, Wal...	United States	October 1, 2019	1965	PG	132 min	Animals & Nature, Drama, Family	A strong-willed family struggles to establish ...
1365	s1366	TV Show	Disney Kirby Buckets	NaN	Jacob Bertrand, Mekai Curtis, Cade Sutton, Oli...	United States	NaN	2014	TV-Y7	3 Seasons	Action-Adventure, Comedy, Coming of Age	Welcome to Kirby's world! It's rude and sketchy.
1366	s1367	TV Show	Disney Mech-X4	NaN	Nathaniel Potvin, Raymond Cham, Kamran Lucas, ...	Canada	NaN	2016	TV-Y7	2 Seasons	Action-Adventure, Comedy, Science Fiction	Ryan discovers his ability to control a giant ...
1367	s1368	TV Show	Imagination Movers	NaN	Rich Collins, Dave Poche, Scott Durbin, Scott...	United States	NaN	2008	TV-Y	3 Seasons	Kids, Music	Rock out with the Imagination Movers, Disney ...

```
mask = disney_df['release_year'] > 1995
disney = disney_df[mask]
```

```
mask = disney['type'] == 'Movie'
disney_movies = disney[mask]
mask = disney['type'] == 'TV Show'
disney_shows = disney[mask]
```

Columns

show_id
type
title
director
cast
country
date_added
release_year
rating
duration
listed_indescription
description

Comparing Disney and Netflix Entertainment released over the years.

출시된 Disney와 Netflix Entertainment를 비교

Netflix Screenshow Entertainment from the Year 1995

Disney Screenshow Entertainment from the Year 1995
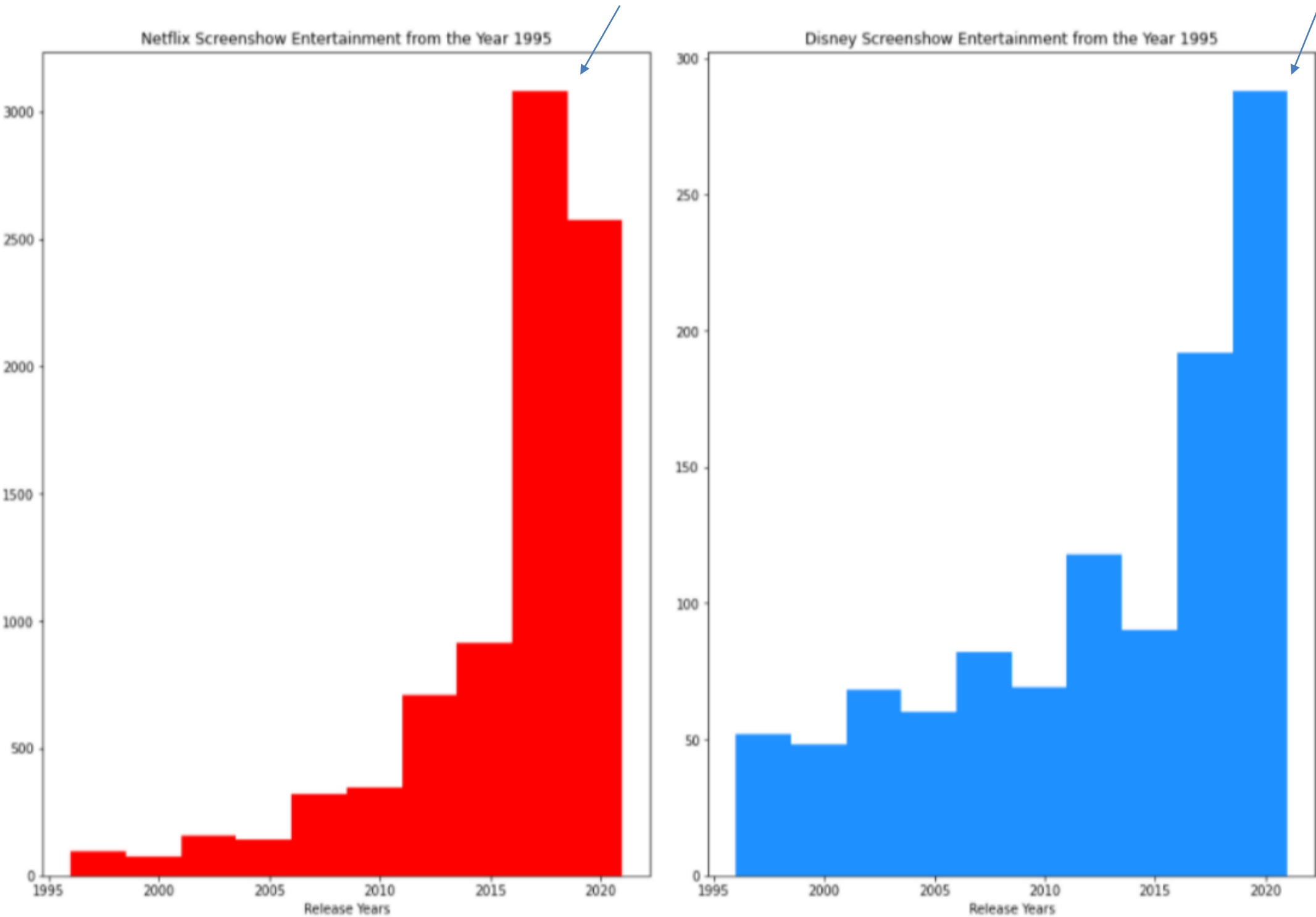
```
fig, axes = plt.subplots(1, 2, figsize=(15, 10))

# Comparing Netflix Individually
axes[0].set_title('Netflix Screenshow Entertainment from the Year 1995')
axes[0].hist(netflix.release_year, color='red')
axes[0].set_xlabel('Release Years')

# Comparing Disney Individually
axes[1].set_title('Disney Screenshow Entertainment from the Year 1995')
axes[1].hist(disney.release_year, color='dodgerblue')
axes[1].set_xlabel('Release Years')

plt.tight_layout(pad=2);
```
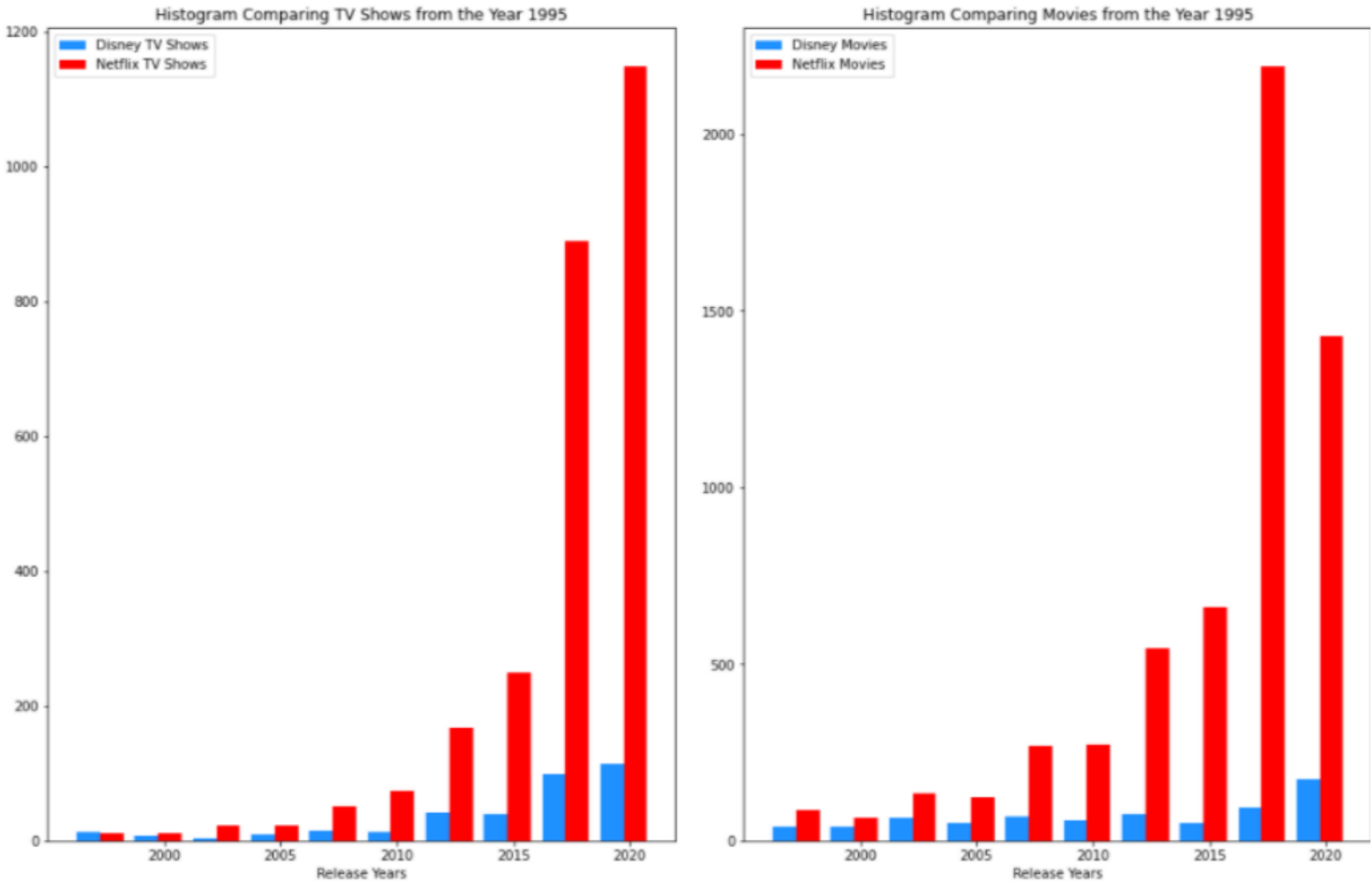
코드

넷플릭스: 1995 ~ 2015까지 점차 증가,
2015 ~ 2020년도의 엔터테인먼트가 가장 높음
디즈니 플러스: 1995 ~ 2015까지 엔터테인먼트 수가 넷플릭스 보다
높음.
2015년 이후부터 이전에 비해 높아짐

Comparing TV Shows and Movies

티비쇼와 영화 비교

Histogram Comparing TV Shows from the Year 1995

Histogram Comparing Movies from the Year 1995

```
fig, axes = plt.subplots(1, 2, figsize=(15, 10))

# Comparing Disney TV Shows with Netflix TV Shows
axes[0].set_title('Histogram Comparing TV Shows from the Year 1995')
axes[0].hist([disney_shows.release_year, netflix_shows.release_year], color=['dodgerblue', 'red'])
axes[0].legend(['Disney TV Shows', 'Netflix TV Shows'])
axes[0].set_xlabel('Release Years')

# Comparing Disney Movies with Netflix Movies
axes[1].set_title('Histogram Comparing Movies from the Year 1995')
axes[1].hist([disney_movies.release_year, netflix_movies.release_year], color=['dodgerblue', 'red'])
axes[1].legend(['Disney Movies', 'Netflix Movies'])
axes[1].set_xlabel('Release Years')

plt.tight_layout(pad=2);
```

코드

- TV SHOW: 2000년부터 넷플릭스가 디즈니 플러스보다 많은 TV SHOW가 있음
- MOVIES: 1995년부터 넷플릭스가 디즈니 플러스보다 많은 MOVIE가 있음

Which cast members have the most roles?

가장 많은 역할을 맡은 출연진은?

```python
mask = netflix_df['cast'].notnull()
netflix_castdf = netflix_df['cast'][mask]
netflix_cast = parse_column(netflix_castdf)

mask = disney_df['cast'].notnull()
disney_castdf = disney_df['cast'][mask]
disney_cast = parse_column(disney_castdf)
```

```python
fig, axes = plt.subplots(1, 2, figsize=(15, 10))

# Netflix Cast
axes[0].set_title('30  Cast Members With The Most Netflix Roles')
bar1 = sns.barplot(x='total', y='cast', data=netflix_cast[:30], ax=axes[0], palette='Set2')
bar1.set(ylabel='Cast')

# Disney Cast
axes[1].set_title('30  Cast Members With The Most Disney Roles')
bar2 = sns.barplot(x='total', y='cast', data=disney_cast[:30], ax=axes[1], palette='Set2')
bar2.set(ylabel='Cast')

plt.tight_layout(pad=2);
```

코드
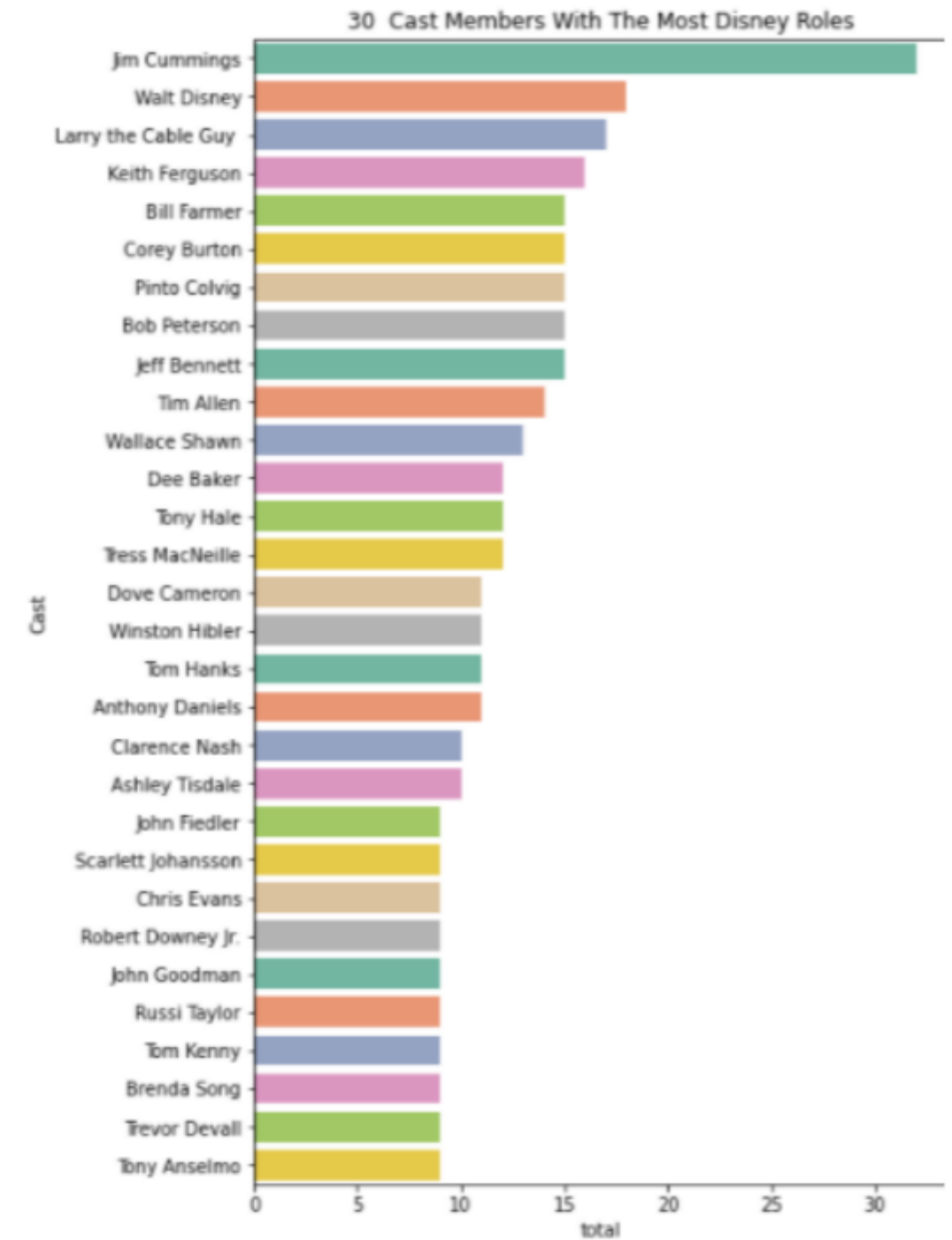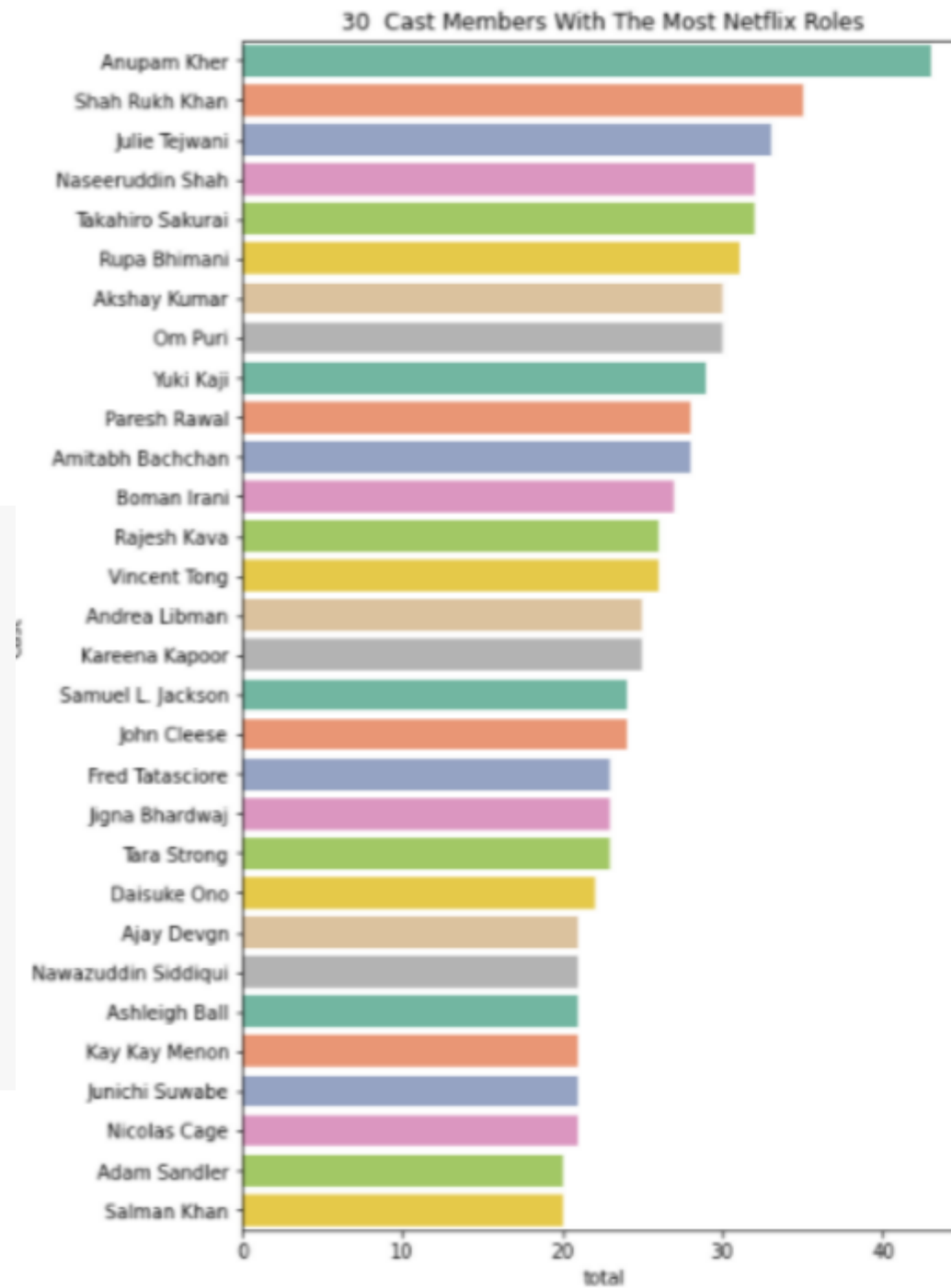
- **넷플릭스**: 1. Anupam Kher, 2.Shah Rukh Khan, 3.Julie Tejwani
- **디즈니 플러스**: 1.Jim Cummings, 2.Walt Disney, 3.Larry the Cable Guy

What are the most common ratings?

가장 일반적인 등급은 무엇입니까?

```python
mask = netflix_df['rating'].notnull()
netflix_ratingdf = netflix_df['rating'][mask]
netflix_rating = parse_column(netflix_ratingdf)

mask = disney_df['rating'].notnull()
disney_ratingdf = disney_df['rating'][mask]
disney_rating = parse_column(disney_ratingdf)
```

```python
fig, axes = plt.subplots(1, 2, figsize=(15, 10))

# Netflix Ratings
axes[0].set_title('Most Common Netflix Ratings')
bar1 = sns.barplot(x='total', y='rating', data=netflix_rating[:14], ax=axes[0], palette="Paired")
bar1.set(ylabel='Rating')

# Disney Ratings
axes[1].set_title('Most Common Disney Ratings')
bar2 = sns.barplot(x='total', y='rating', data=disney_rating, ax=axes[1], palette="Paired")
bar2.set(ylabel='Rating')

plt.tight_layout(pad=2);
```

코드

Most Common Netflix Ratings

Most Common Disney Ratings
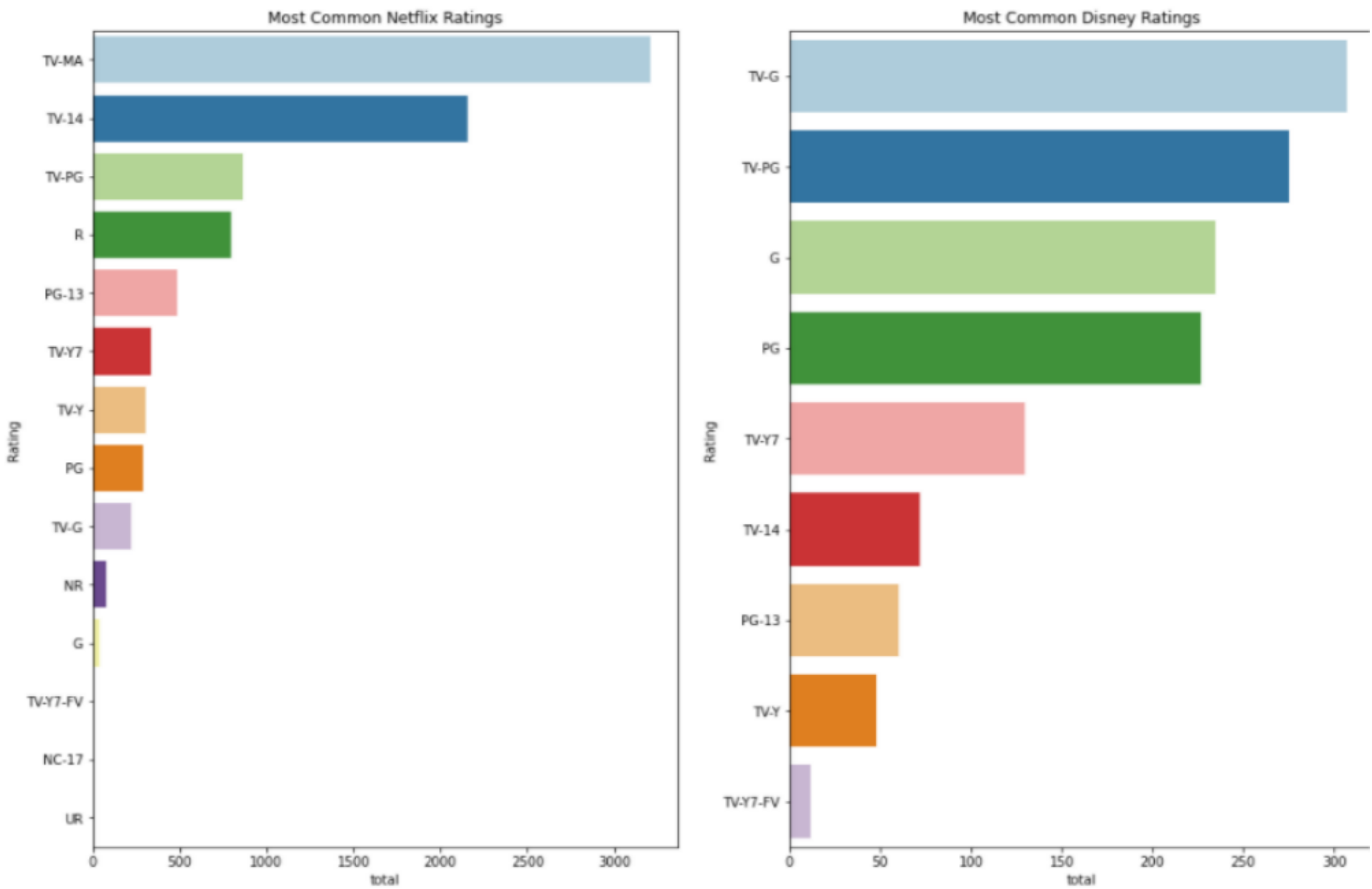
- **넷플릭스**: 1. TV-MA, 2.TV-14, 3.TV-RG
- **디즈니 플러스**: 1. TV-G, TV-PG, 3.TV-G

지역 등급 표시	키즈 (전체)	초등학생 (7세 이상)	10대 (13세 이상)	청소년 (16세 이상)	성인 (18세 이상)
MPAA (영화)	G	PG	PG-13		NC-17
					등급 보류
					무삭제 등급
					R
TVPG (TV)	TV-G	TV-Y7		TV-14	TV-MA
		TV-Y7-FV			
	TV-Y	TV-PG			

Which countries have the highest content?

콘텐츠가 가장 많은 국가는 어디입니까?

30 Countries With Highest Netflix Content

30 Countries With Highest Disney Content
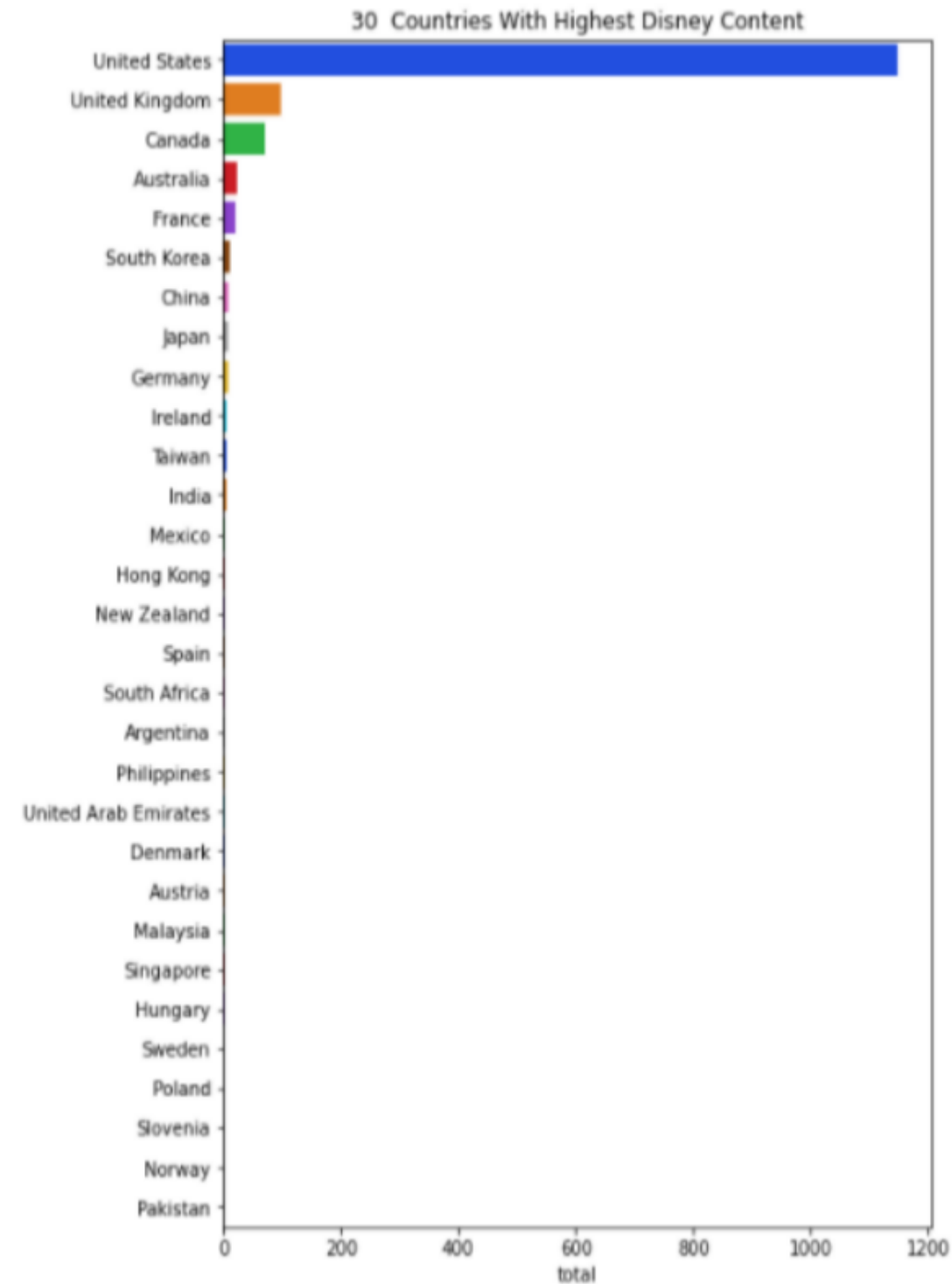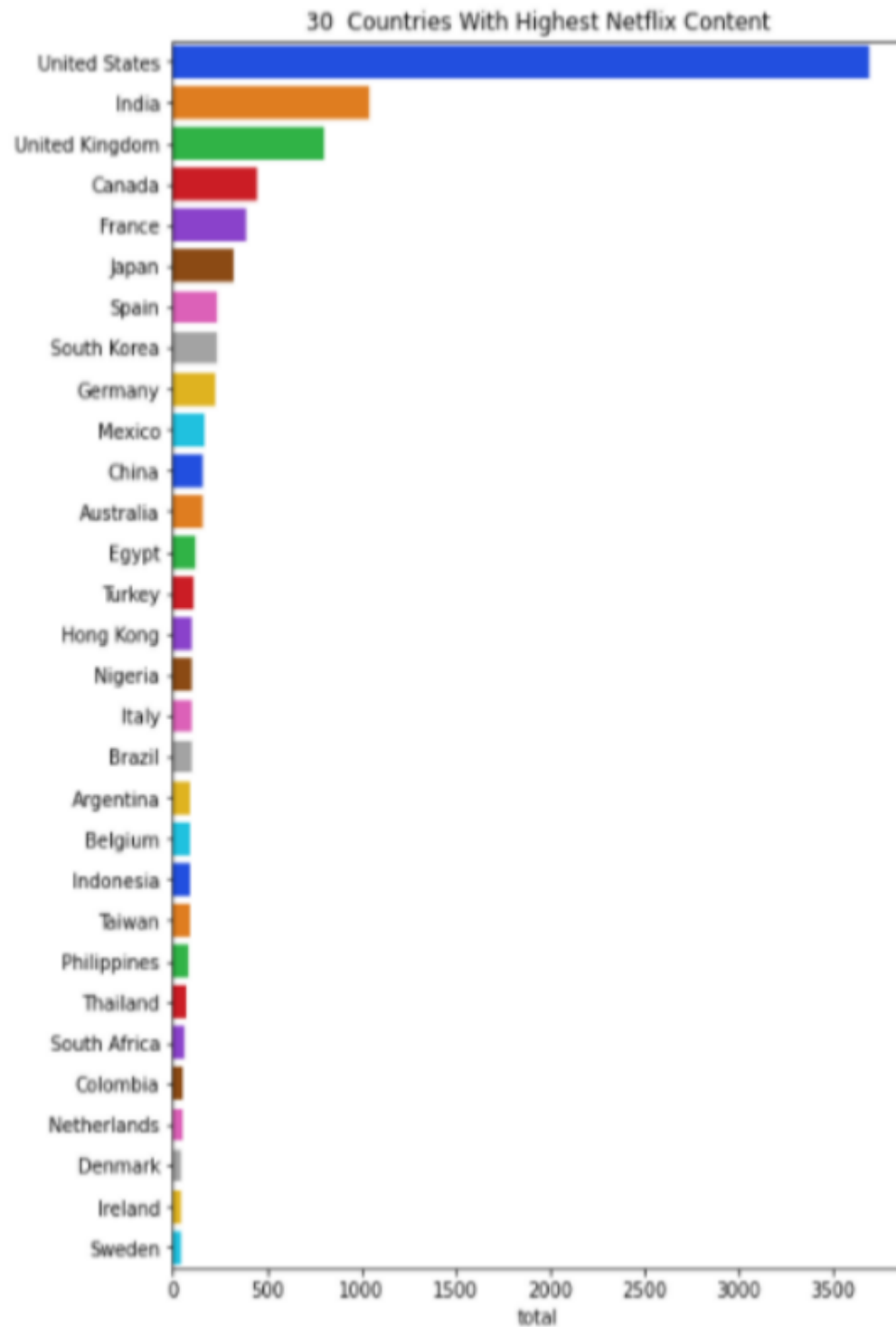
```
mask = netflix_df['country'].notnull()
netflix_countrydf = netflix_df['country'][mask]
netflix_countries = parse_column(netflix_countrydf)


mask = disney_df['country'].notnull()
disney_countrydf = disney_df['country'][mask]
disney_countries = parse_column(disney_countrydf)
```

```
fig, axes = plt.subplots(1, 2, figsize=(15, 10))

# Netflix
axes[0].set_title('30  Countries With Highest Netflix Content')
bar1 = sns.barplot(x='total', y='country', data=netflix_countries[:30], ax=axes[0], palette='bright')
bar1.set(ylabel=None)

# Disney
axes[1].set_title('30  Countries With Highest Disney Content')
bar2 = sns.barplot(x='total', y='country', data=disney_countries[:30], ax=axes[1], palette='bright')
bar2.set(ylabel=None)

plt.tight_layout(pad=2);
```
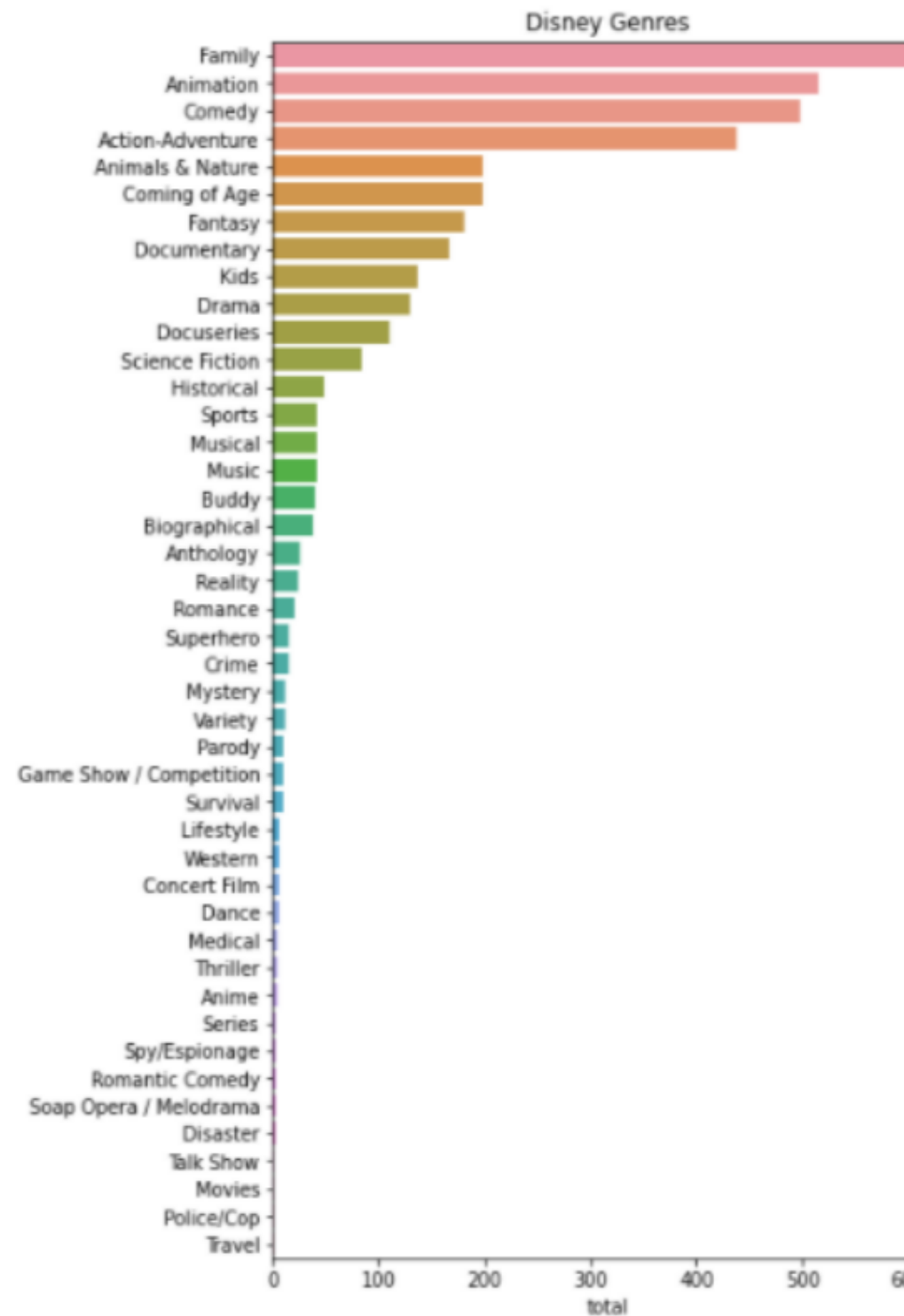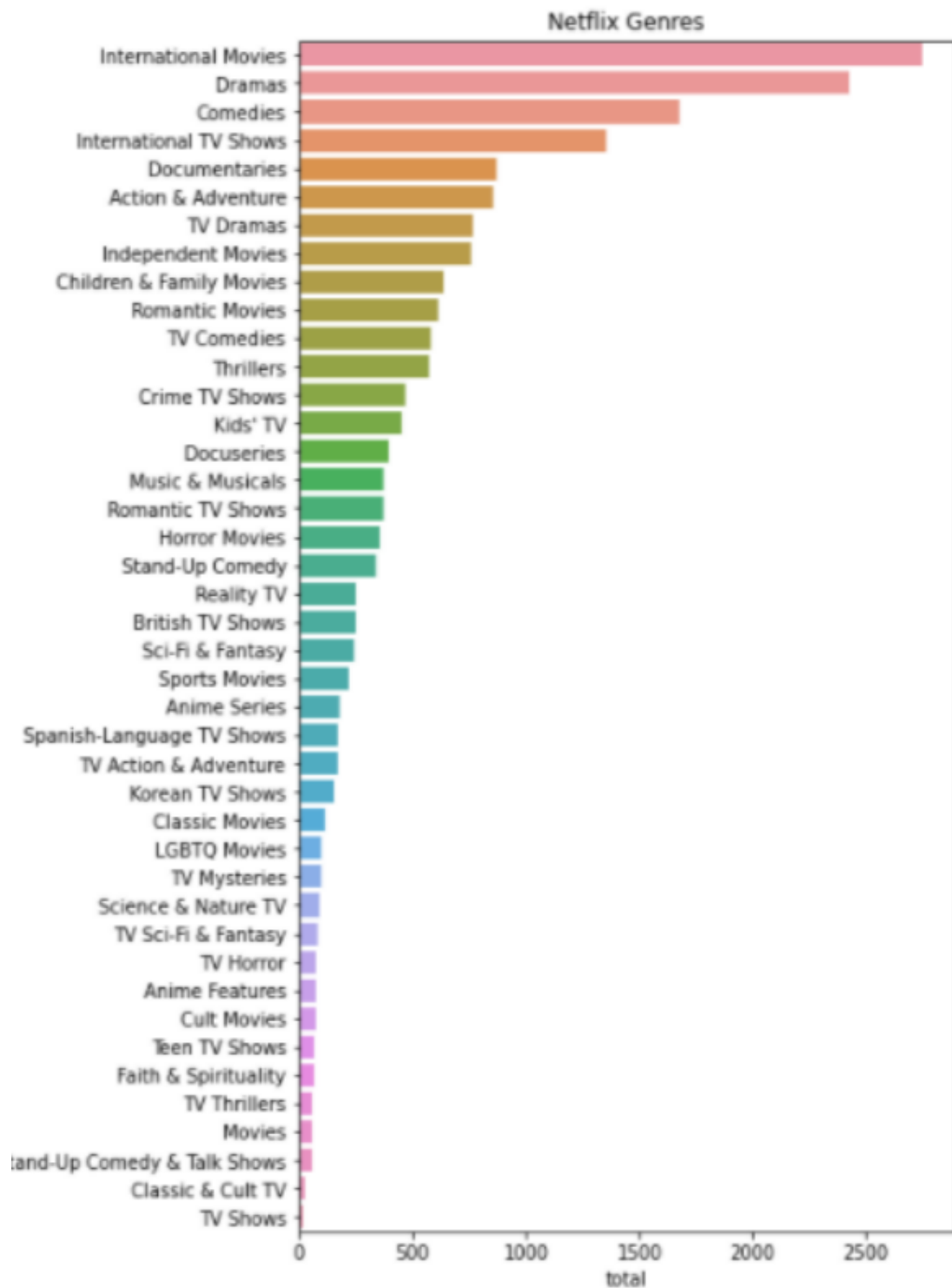
코드

- 넷플릭스: 1.미국, 2.인도, 3.영국, 한국 8위
- 디즈니 플러스: 1.미국 , 2.영국, 3.캐나다, 한국 6위

What are the most common genres?

가장 일반적인 장르에 대하여


```
netflix_genre = netflix_df.listed_in
netflix_genres = parse_column(netflix_genre)
disney_genre = disney_df.listed_in
disney_genres = parse_column(disney_genre)
```

```
fig, axes = plt.subplots(1, 2, figsize=(15, 10))

# Netflix Genres
axes[0].set_title('Netflix Genres')
bar1 = sns.barplot(x='total', y='listed_in', data=netflix_genres, ax=axes[0])
bar1.set(ylabel=None)

# Disney Genres
axes[1].set_title('Disney Genres')
bar2 = sns.barplot(x='total', y='listed_in', data=disney_genres, ax=axes[1])
bar2.set(ylabel=None)

plt.tight_layout(pad=2);
```

코드

⬤ 넷플릭스: 1.국제영화, 2.드라마, 3.코미디
⬤ 디즈니 플러스: 1.가족 , 2.애니메이션, 3.코미디

2021

감사합니다

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