

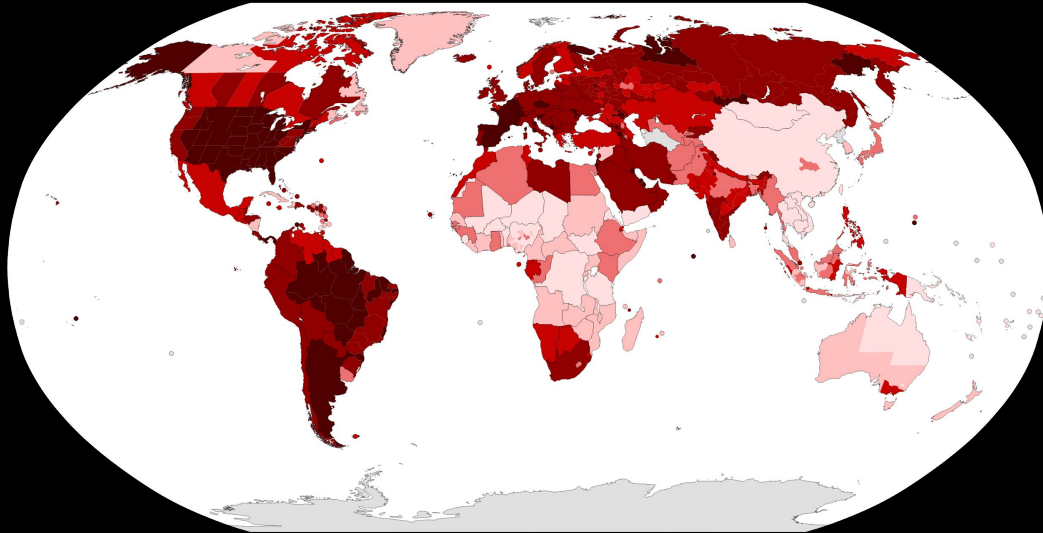
PRIMEFLIX PLUS+



Presented by Paola Lopez, Tara Madhyasta, & Justin Acance

March 2020

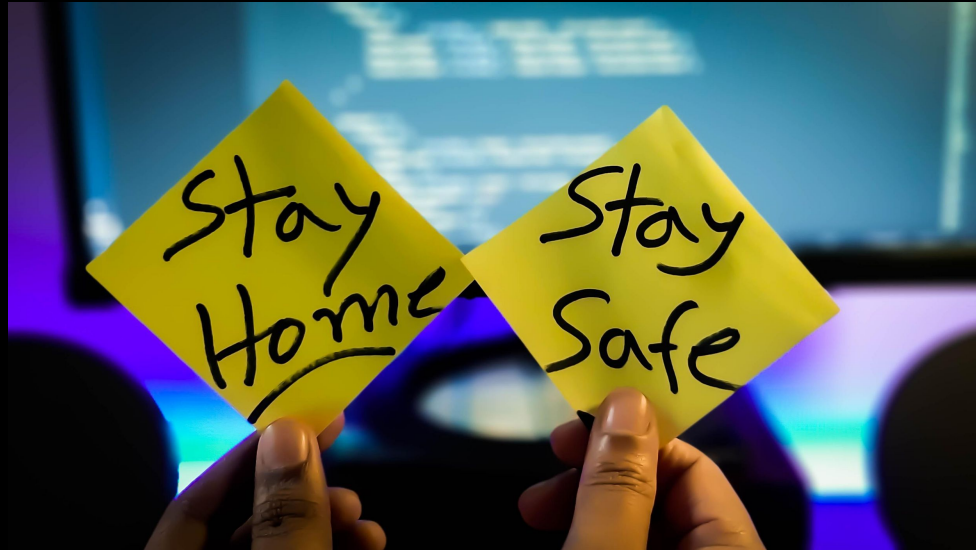
The World Health Organization declared COVID-19
a global pandemic.



November 2020

The US is setting new records for positive cases each day.

People are being asked to shelter in place as much as possible.



But...

More time at home
means more demand
for entertainment.



Online streaming services have tens of thousands of movies...



But not everyone can afford to pay for multiple services at once,
especially during economic uncertainty.

OUR MISSION

*“To help consumers pick
a streaming service that
best suits them”*

PRIMEFLIX
PLUS+



Here's how

Analyze movies available on:



prime video

hulu

Data Source:

kaggle

- Data on movies on Netflix, Prime Video, Hulu and Disney+
- All Oscar Awards between 1927 – 2020



Questions We Wanted Answered



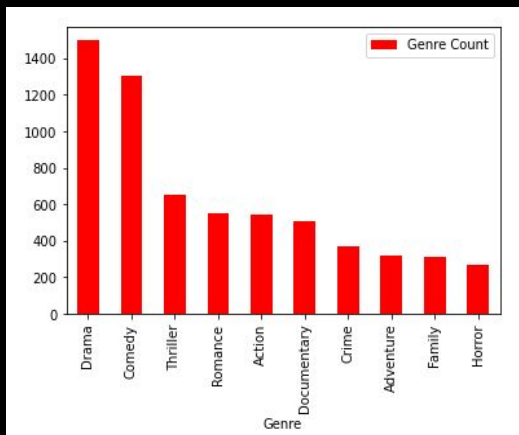


What are the top genres for each streaming service?

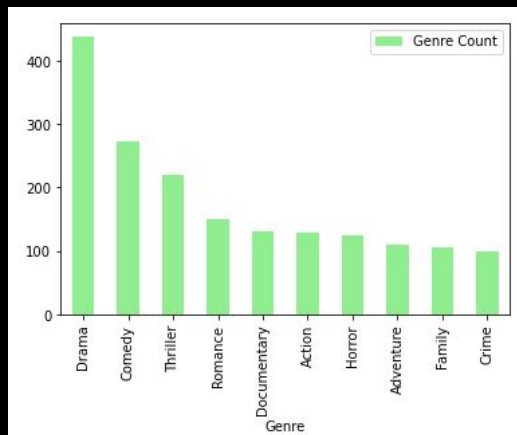


Top 10 Genres per Streaming Service

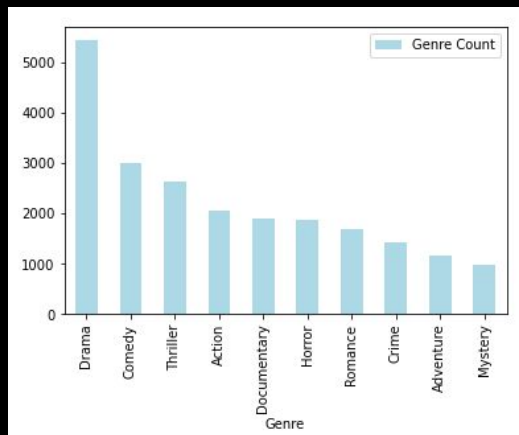
Netflix



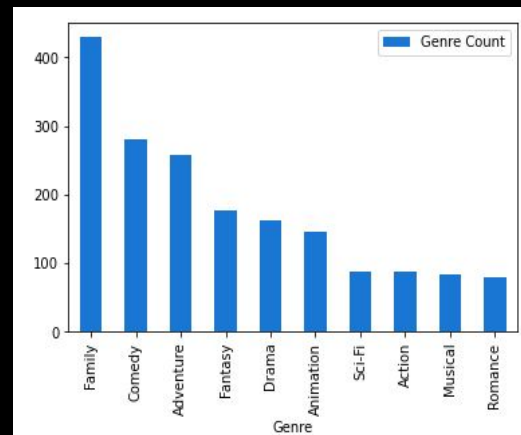
Hulu



Prime Video

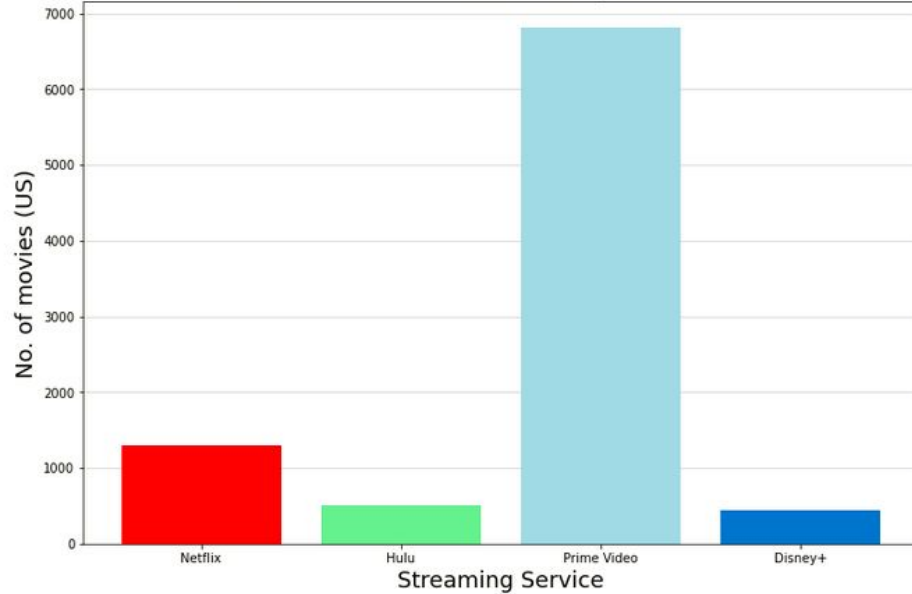


Disney+

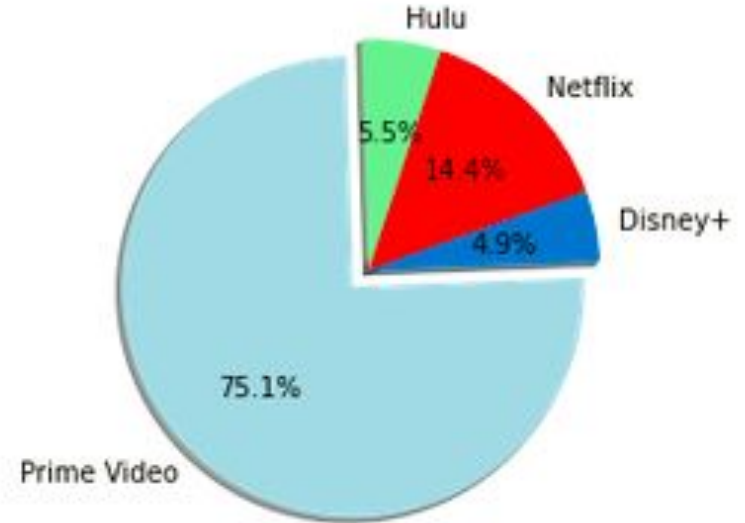


Total number of movies available in US in each streaming service

Total number of movies across platforms in US



Movie distribution across platforms in US



Which service has the highest number of recently released movies (past 5 years)?



Prime Video?

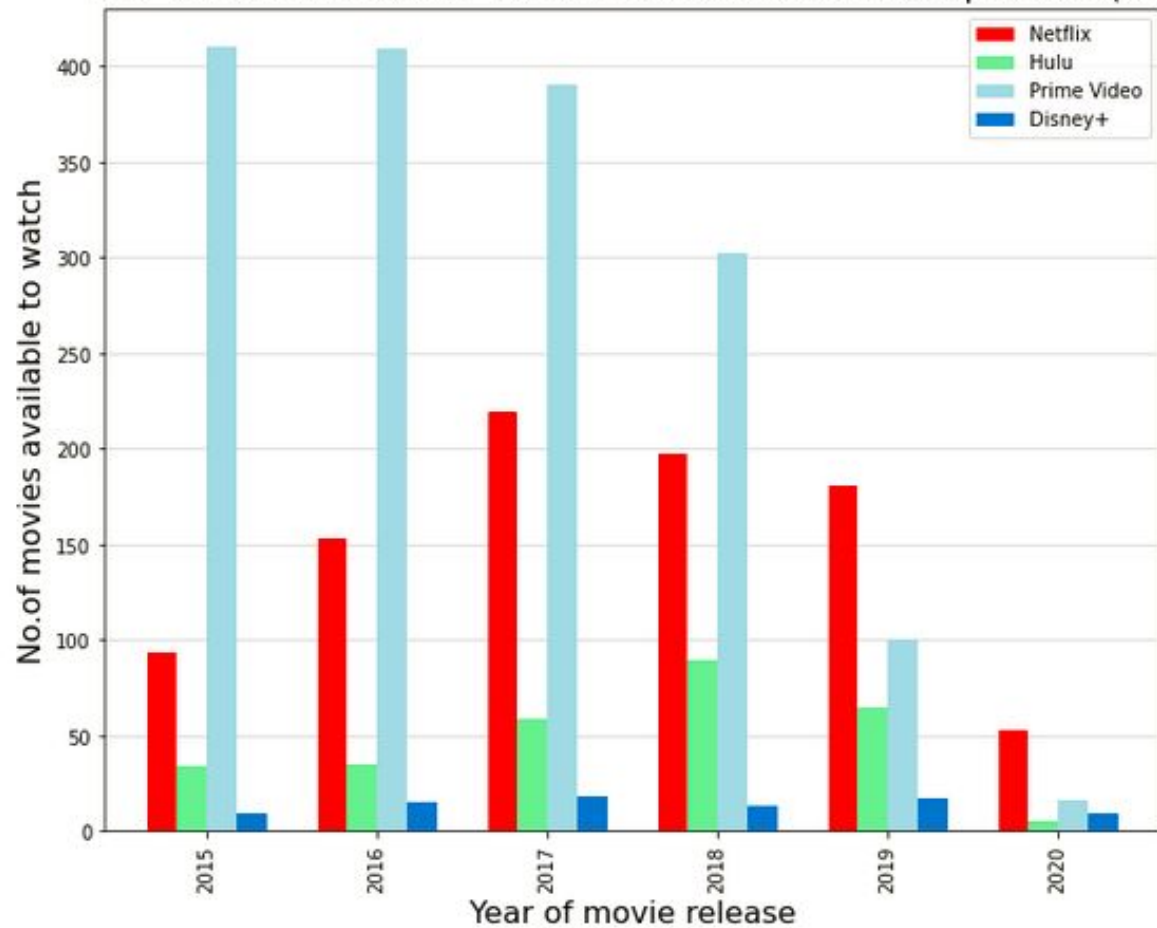
Hulu?

Disney+?

Netflix?



Year of movie release v/s No. of movies available across platforms(US)



What are the top languages of movies across each streaming service?

español

한국어

中文

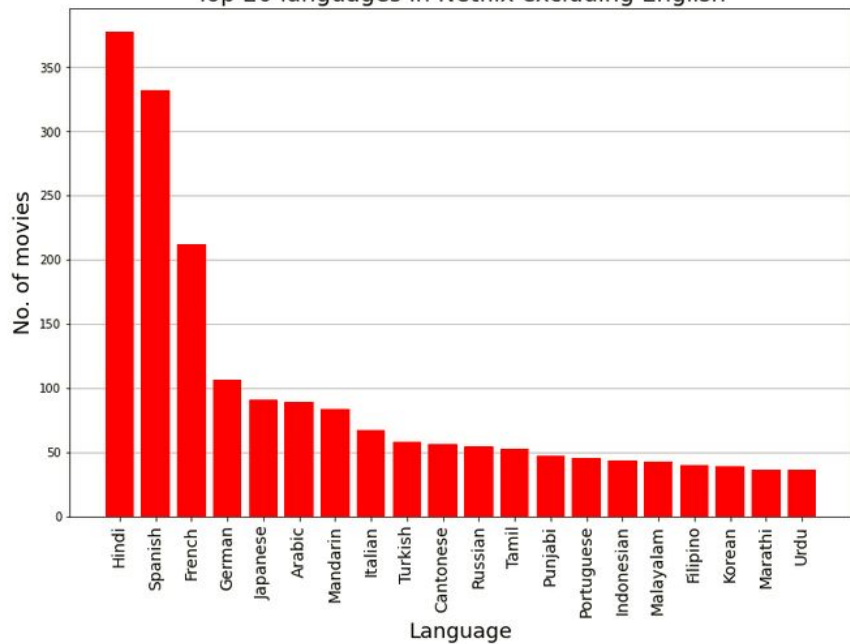
हिंदी

Deutsche

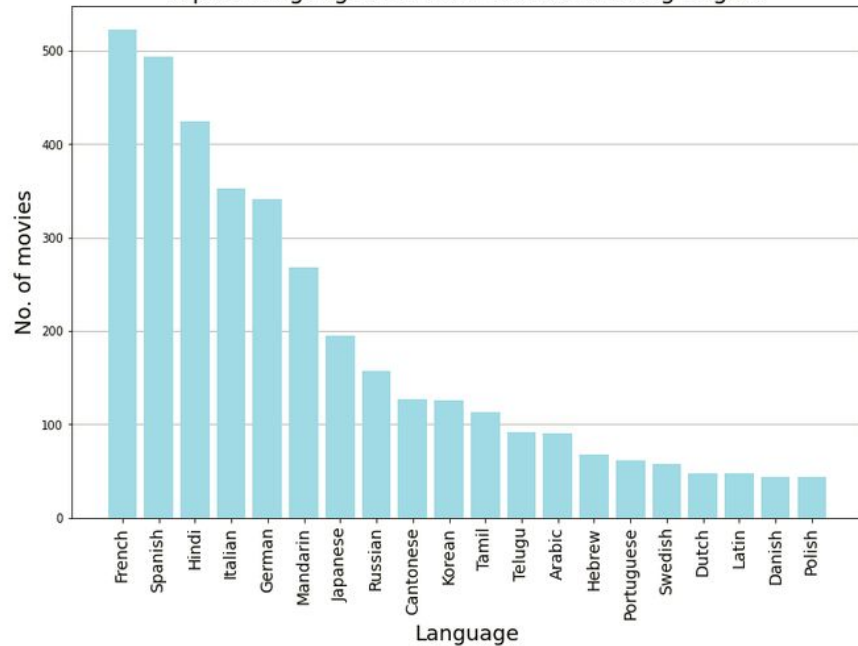
عربی

日本人

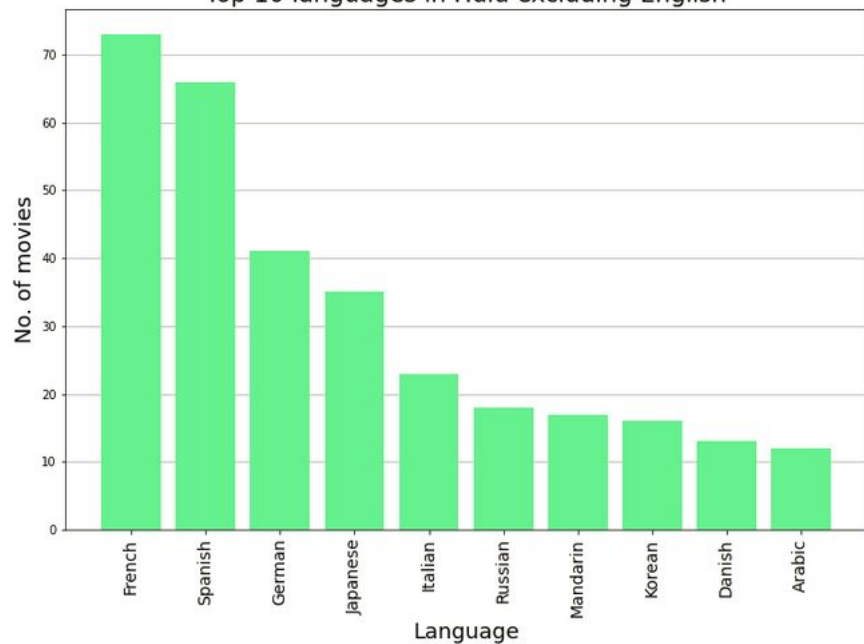
Top 20 languages in Netflix excluding English



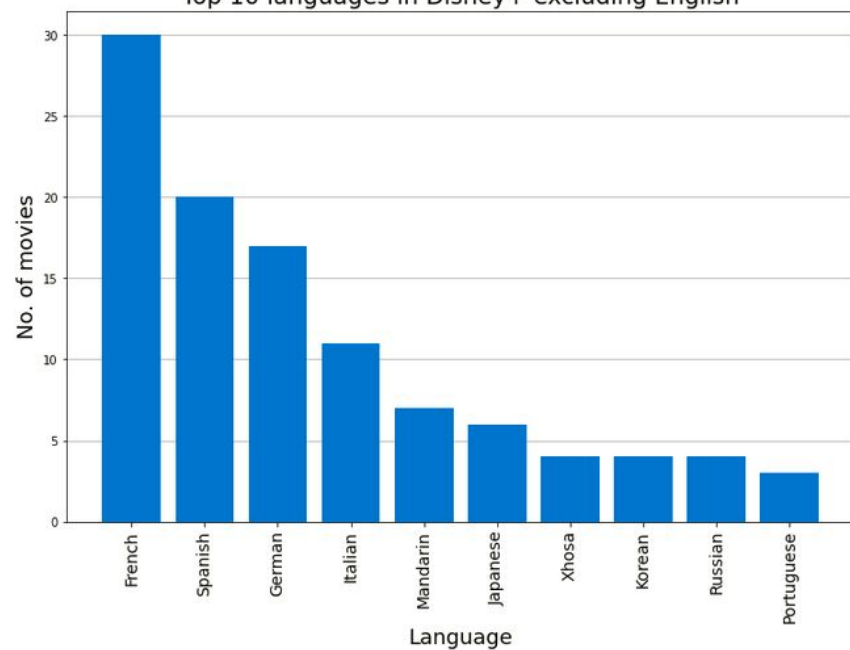
Top 20 languages in Prime Video excluding English



Top 10 languages in Hulu excluding English



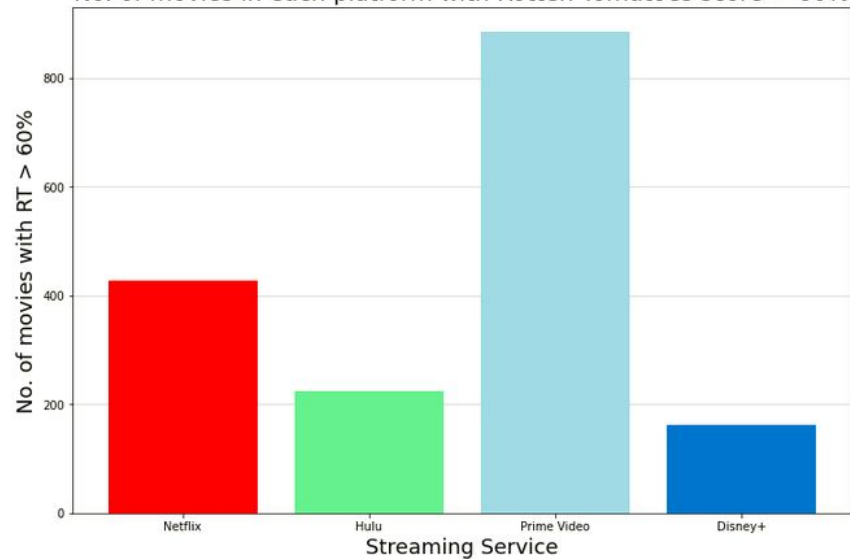
Top 10 languages in Disney+ excluding English



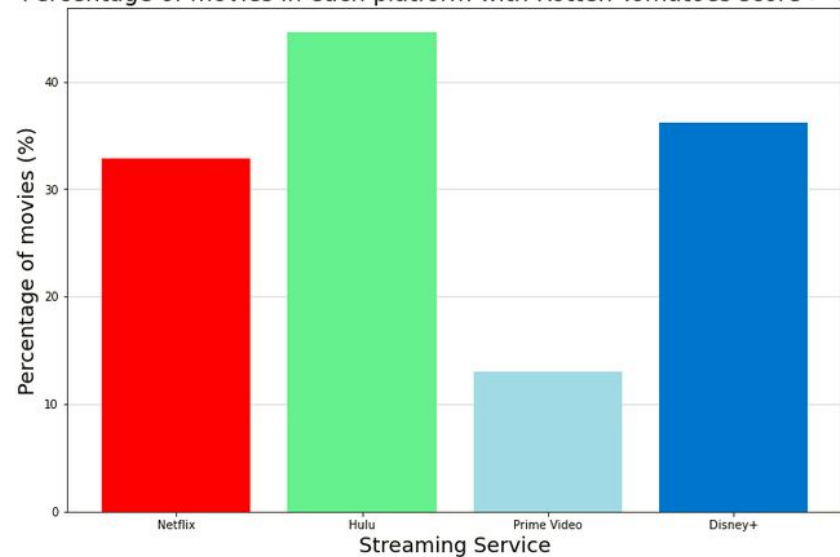
How do the streaming services stand in terms of Rotten Tomatoes score of their content?



No. of movies in each platform with Rotten Tomatoes score > 60%



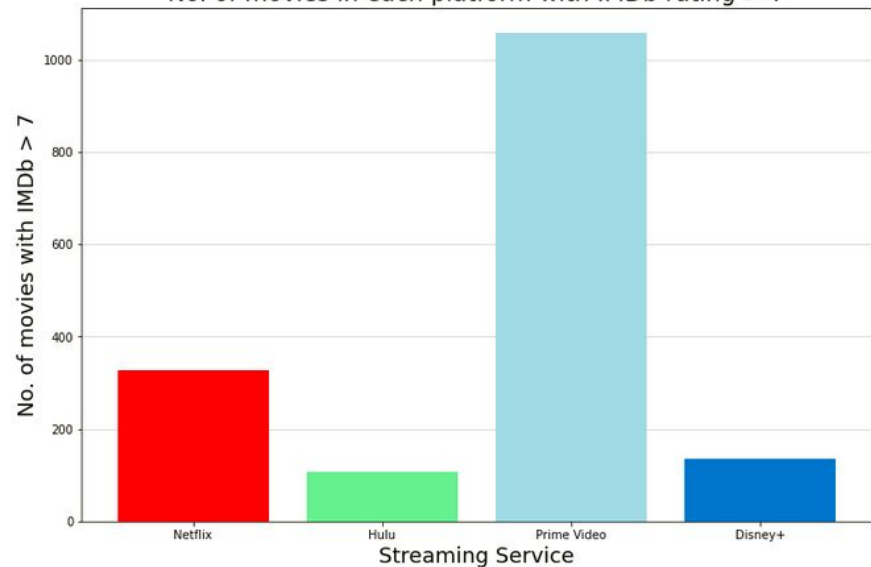
Percentage of movies in each platform with Rotten Tomatoes score > 60%



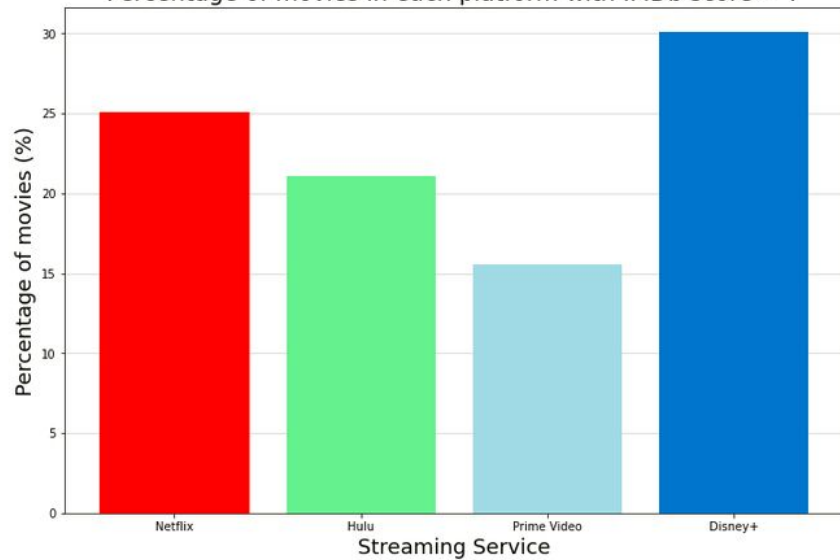
How do the streaming services rank in
the IMDb Rating of their content?



No. of movies in each platform with IMDb rating > 7

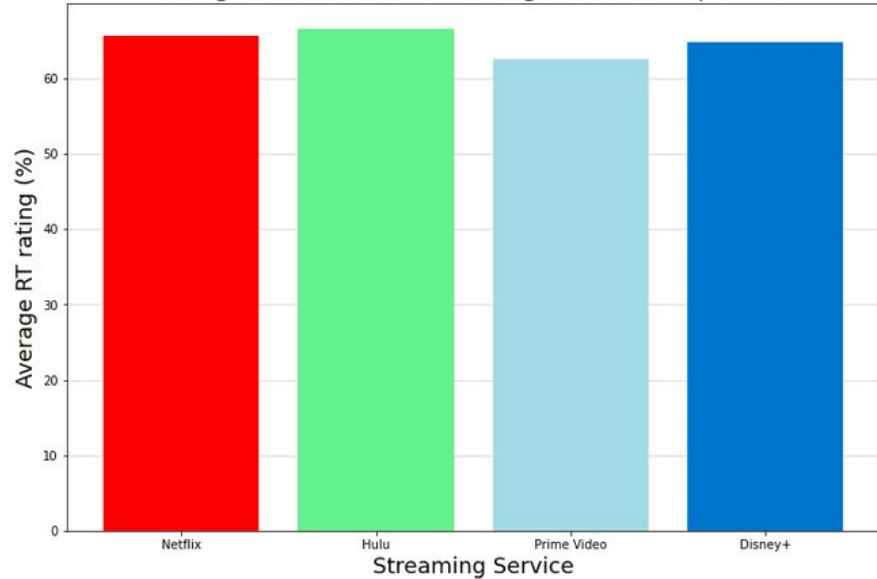


Percentage of movies in each platform with IMDb score > 7

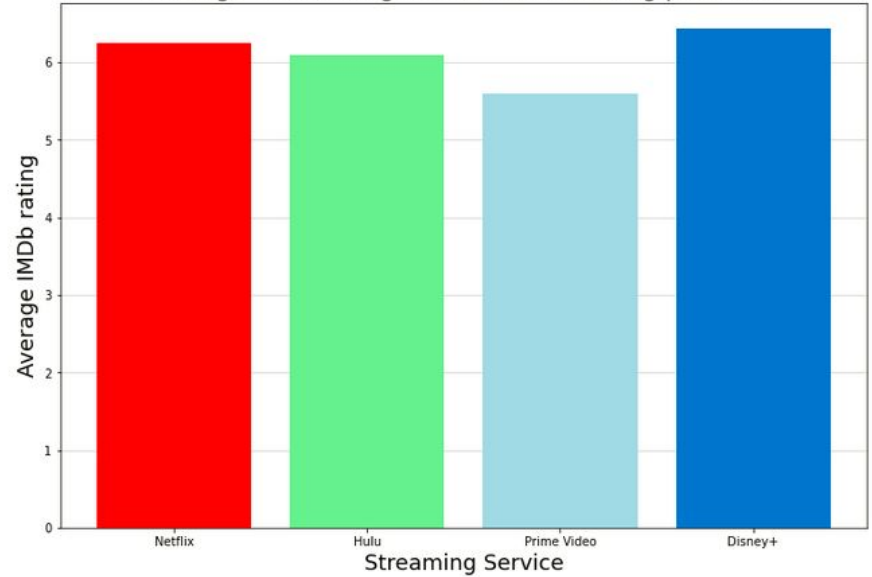


Quantity *isn't* everything

Average Rotten Tomatoes rating across each platform



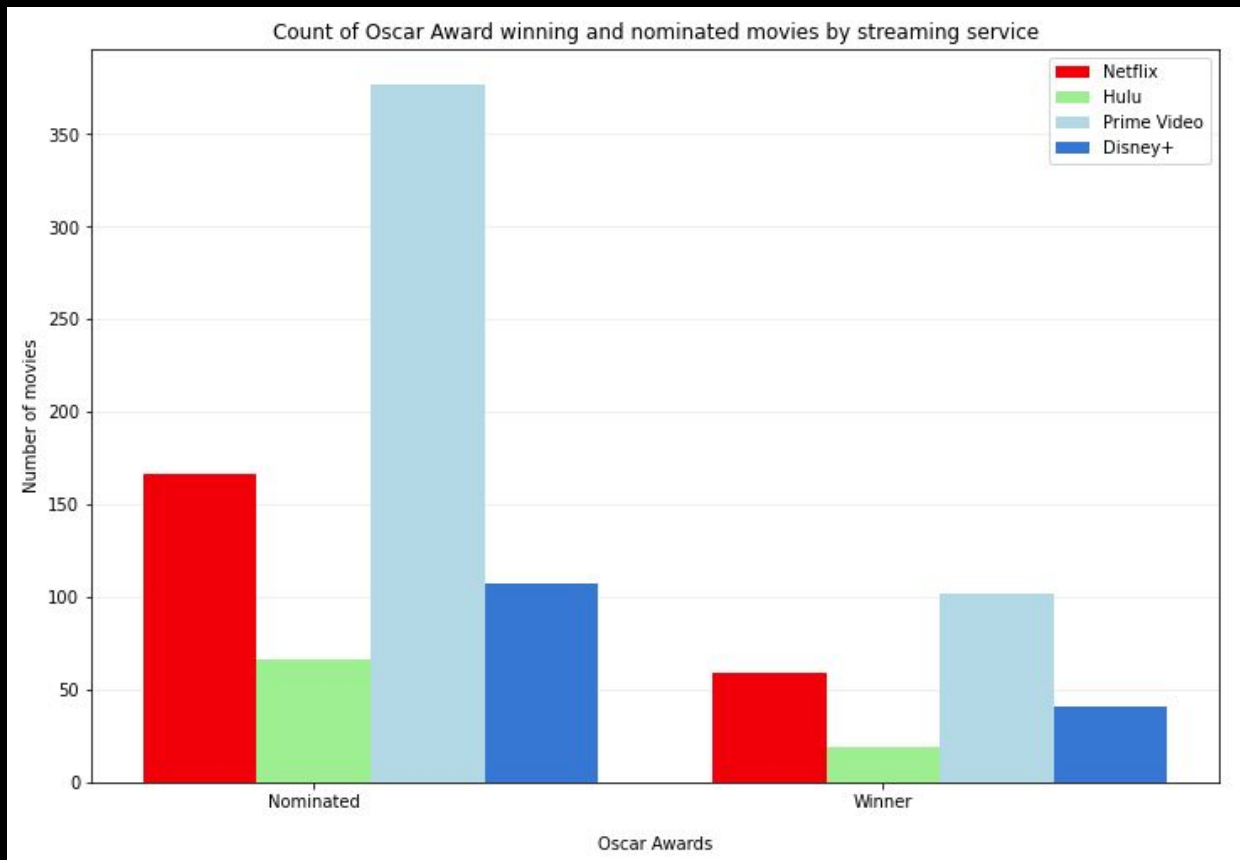
Average IMDb rating across the streaming platforms



Which service has the highest number of
Oscar Award winning and nominated
movies?

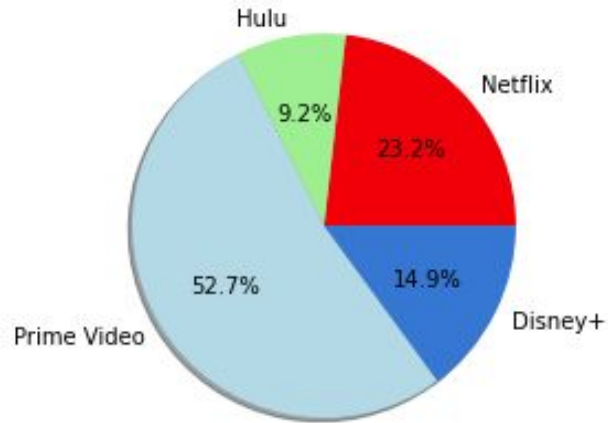


Oscar Awards for any category

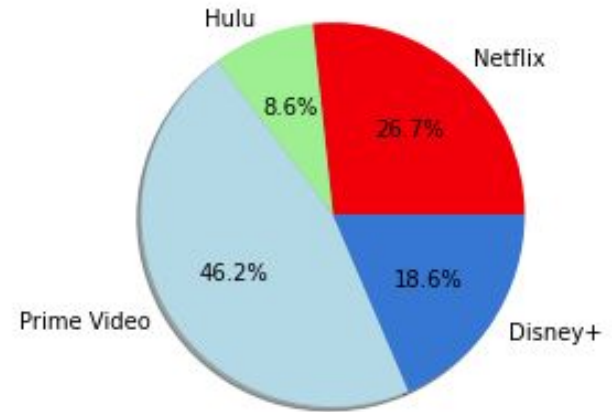


Prime Video offers half of all streamable Oscar worthy movies

Distribution of Oscar Award Nominated movies by streaming service

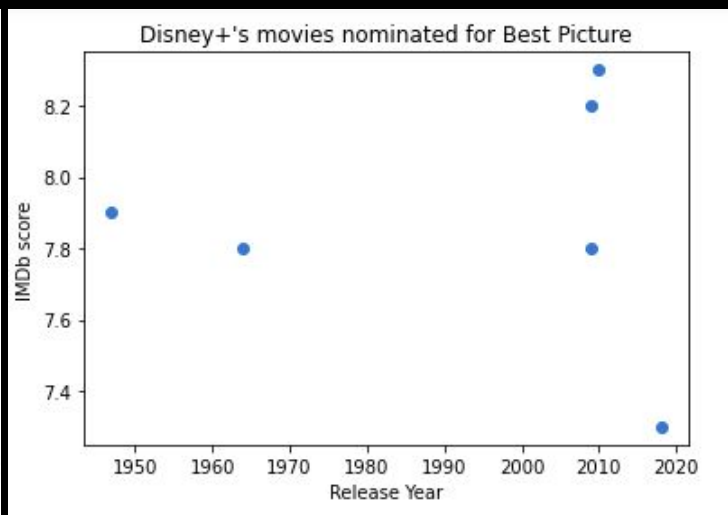
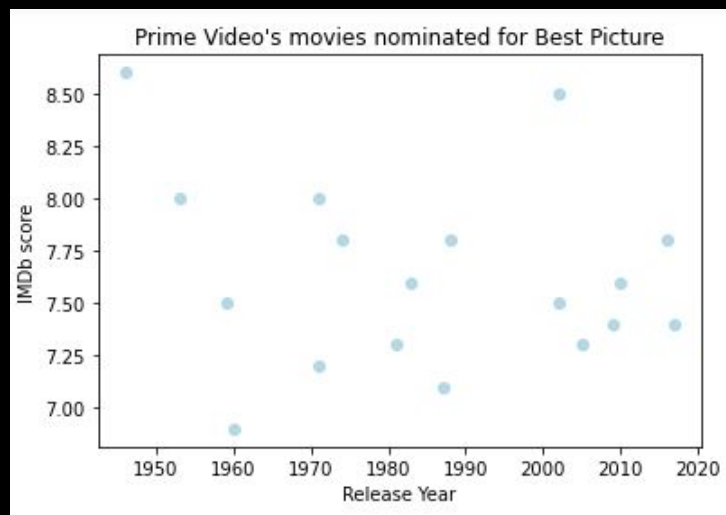
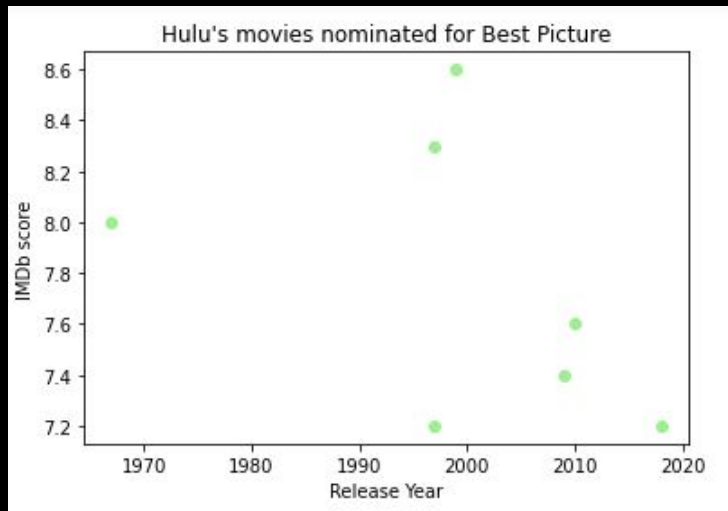
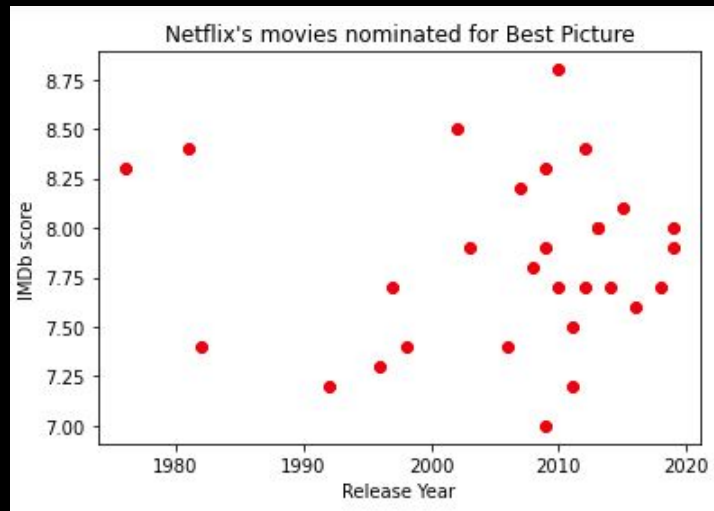


Distribution of Oscar Award winning movies by streaming service



How old are the movies that were nominated for Best Picture, and what are their ratings on IMDb?





Limitations, Challenges, and Improvements

- Limitations

- Kaggle.com dataset created by community and may not be exhaustive
- Dataset limited for 2020

- Challenges

- Merging datasets required lots of data cleaning
- Genres and Languages originally had multiple values in one cell

- Improvements

- Next time could include shows to give a more complete picture of service offerings

In conclusion...

Netflix if you value IMDb ratings and recent releases within the past 2 years

Hulu if you value Rotten Tomatoes ratings

Prime Video if you value Oscar Award wins and nominations, and want access to the largest library

Disney+ if you value alternative genres and family friendly content

Shelter in place doesn't need to be boring.



Choose the streaming service that motivates you to stay at home and together, we can flatten the curve.

Thank you!



Appendix

Movies dataframe

```
In [3]: movies_df.head()
```

```
Out[3]:
```

	Unnamed: 0	ID	Title	Year	Age	IMDb	Rotten Tomatoes	Netflix	Hulu	Prime Video	Disney+	Type	Directors	Genres	Country	Language
0	0	1	Inception	2010	13+	8.8	87%	1	0	0	0	0	Christopher Nolan	Action,Adventure,Sci-Fi,Thriller	United States,United Kingdom	English,J
1	1	2	The Matrix	1999	18+	8.7	87%	1	0	0	0	0	Lana Wachowski,Lilly Wachowski	Action,Sci-Fi	United States	English
2	2	3	Avengers: Infinity War	2018	13+	8.5	84%	1	0	0	0	0	Anthony Russo,Joe Russo	Action,Adventure,Sci-Fi	United States	English
3	3	4	Back to the Future	1985	7+	8.5	96%	1	0	0	0	0	Robert Zemeckis	Adventure,Comedy,Sci-Fi	United States	English
4	4	5	The Good, the Bad and the Ugly	1966	18+	8.8	97%	1	0	1	0	0	Sergio Leone	Western	Italy,Spain,West Germany	Italian

Oscar award CSV

2019	2020	92	VISUAL EFFEC	Guillaume Roch	1917	TRUE
2019	2020	92	VISUAL EFFEC	Roger Guyett, N	Star Wars: The f	FALSE
2019	2020	92	WRITING (Adap	Screenplay by S	The Irishman	FALSE
2019	2020	92	WRITING (Adap	Screenplay by T	Jojo Rabbit	TRUE
2019	2020	92	WRITING (Adap	Written by Todd	Joker	FALSE
2019	2020	92	WRITING (Adap	Written for the s	Little Women	FALSE
2019	2020	92	WRITING (Adap	Written by Antho	The Two Popes	FALSE
2019	2020	92	WRITING (Origir	Written by Rian	Knives Out	FALSE
2019	2020	92	WRITING (Origir	Written by Noah	Marriage Story	FALSE
2019	2020	92	WRITING (Origir	Written by Sam I	1917	FALSE
2019	2020	92	WRITING (Origir	Written by Quen	Once upon a Tin	FALSE
2019	2020	92	WRITING (Origir	Screenplay by B	Parasite	TRUE
2019	2020	92	JEAN HERSHOI	Geena Davis		TRUE
2019	2020	92	HONORARY AV	David Lynch		TRUE
2019	2020	92	HONORARY AV	Wes Studi		TRUE
2019	2020	92	HONORARY AV	Lina Wertmüller		TRUE

Oscar award dataframe

	film	category	winner
0	\$1,000 a Minute	SOUND RECORDING	1
1	'38'	FOREIGN LANGUAGE FILM	1
2	'Crocodile' Dundee	WRITING (Screenplay Written Directly for the S...	1
3	'Round Midnight	ACTOR IN A LEADING ROLE	1
4	'Round Midnight	MUSIC (Original Score)	1
...
9971	the end	SHORT FILM (Animated)	1
9972	tom thumb	SPECIAL EFFECTS	1
9973	À Nous la Liberté	ART DIRECTION	1
9974	Ådalen '31	FOREIGN LANGUAGE FILM	1
9975	Éramos Pocos (One Too Many)	SHORT FILM (Live Action)	1

9976 rows x 3 columns

Portion of merged dataframes

Directors	Genres	Country	Language	Runtime	Nomination	Wins	Won Best Picture
Christopher Nolan	Action,Adventure,Sci-Fi,Thriller	United States,United Kingdom	English,Japanese,French	148.0	8.0	4.0	1.0
Lana Wachowski,Lilly Wachowski	Action,Sci-Fi	United States	English	136.0	4.0	4.0	0.0
Anthony Russo,Joe Russo	Action,Adventure,Sci-Fi	United States	English	149.0	1.0	0.0	0.0
Robert Zemeckis	Adventure,Comedy,Sci-Fi	United States	English	116.0	4.0	1.0	0.0
Sergio Leone	Western	Italy,Spain,West Germany	Italian	161.0	0.0	0.0	0.0
...

For loop to split Genre and Languages

```
#Create new dataframe excluding null values from 'Country'
country_df = combined_df[combined_df['Country'].isna()==False]

#Split genres name and count no. of movies in each genre
country_count = {}
for x in country_df["Country"].values:

    country_list = x.split(",")
    #print (country_list)
    for y in country_list:
        y = y.strip()
        #print(y)
        if y not in country_count:
            country_count[y]=0
        country_count[y] +=1
        #print(country_count)

#country_count

country_name = country_count.keys()
count_country = country_count.values()

allcountries_df=pd.DataFrame(count_country, country_name)
allcountries_df.head(5)
```