

Who's presenting?



Group 4 Home TV Shows Movies Latest My List

The Content







Enjoy the show!

START



The data and goal of investigation:

The Data:

- Merger of two datasets from Netflix and Amazon prime and for another quantitative dimension we also merged data from IMDb on audience rating
- 2. Cleaning the data: Transforming date to the right data type, cleaning genre and rating variables to keep consistency, filtering out NAs of avg_vote

Goals of analysis:

- Descriptive analysis of the platform content
- Identify aspects in which Netflix and Amazon Prime differ
- Build a regression model to determine what affects audience ratings
- Content-based recommendation system

Some Variables & Explanations

- type & title: content types (Movie/TV Show) and the name of each content
- director & cast: Names of directors and prominent actors & actresses
- date added & release year: date when the content was added on the platform and year when the content is released
- rating & duration: TV-MA, R, TV-14 etc, min/season
- genre_new: drama, comedy, crime...
- description: few words describing
- avg_vote & votes: average rating and number of votes for each content





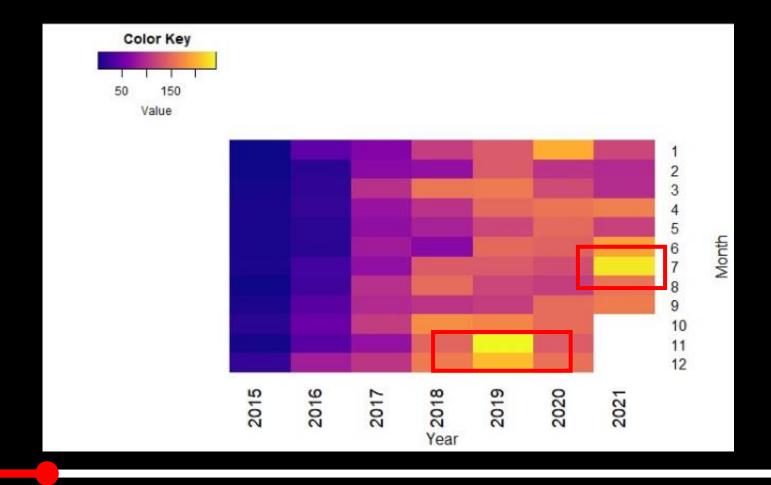


Netflix data



When does Netflix update their content?

More content updates during holiday season, and after lockdown was over









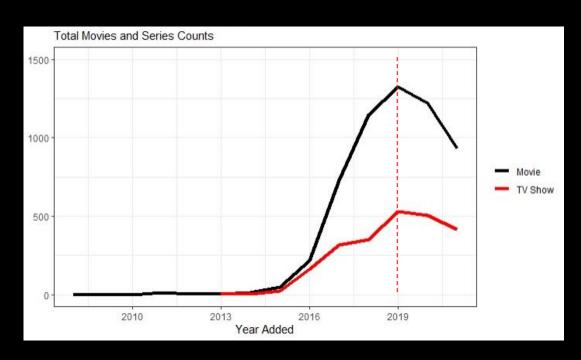




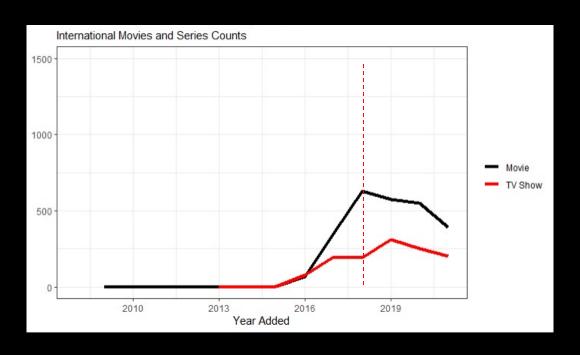
Where is Netflix's content from?

- Twice as much content from English speaking countriesContent had a sharp increase in 2016 and a dramatic drop after the pandemic hit

Number of shows added peaks in 2019



International production peaks in 2018







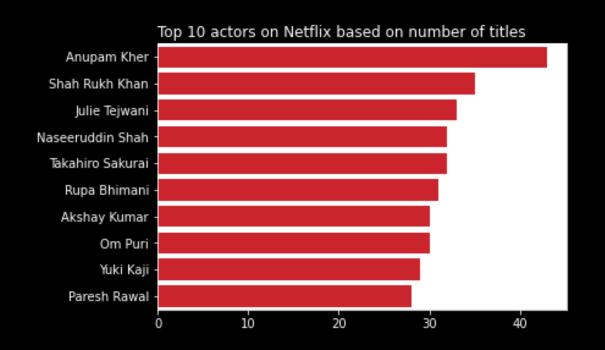






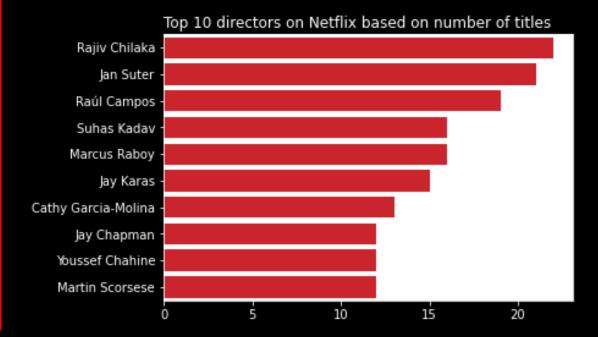
Who are Netflix's most common actors and directors?

Indian actors are the busiest!



Netflix capitalizes on its own directors!

(Top two directors only produce Netflix content)









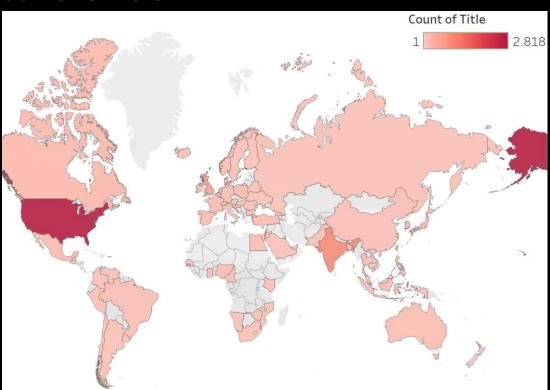




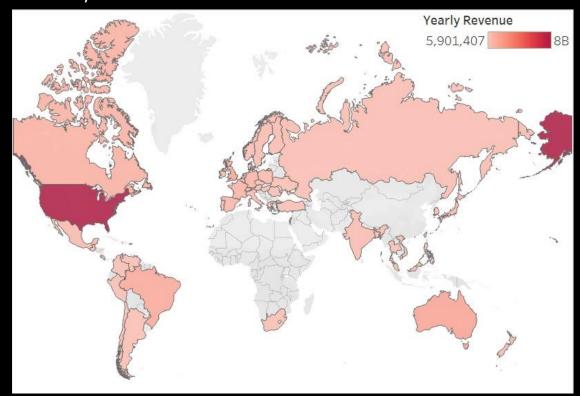
What about production and revenue split?

USA profits but also pays the most for Netflix content

Most movies are produced in the USA and India



Maximum revenue is produced in the USA, UK, Brazil, and Australia













What are the top ten movies on Netflix?

All top ten movies are from either the USA or India

Pulp Fiction	American History X	Dangal	Django Unchained		
USA	USA	India	USA		
Quentin Tarantino	Tony Kaye	Nitesh Tiwari	Quentin Tarantino		
8.9	8.5	8.4	8.4		
Schindler's List	3 Idiots	American Beauty			
USA	India	USA			
Steven Spielberg	Rajkumar Hirani	Sam Mendes			
8.9	8.4	8.3			
Inception	Avengers: Infinity War	Andhadhun			
USA, UK	USA	India			
Christopher Nolan	Anthony Russo, Joe Russo	Sriram Raghavan			
8.8	8.4	8.3			









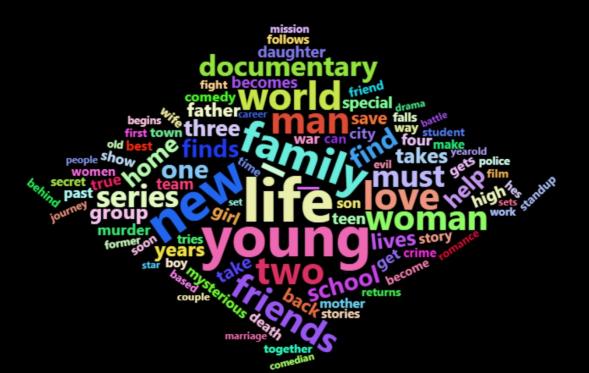
Comparison



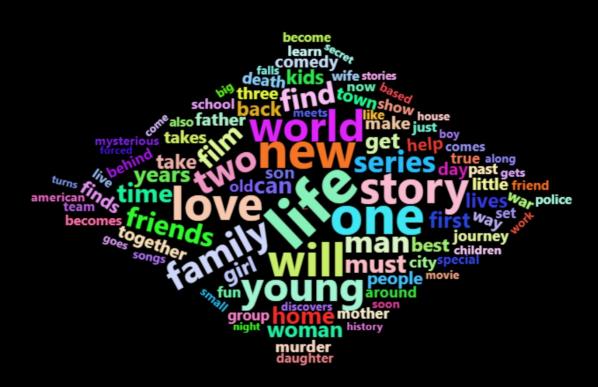
What words are used in movie/show descriptions?

Similar words are used to describe content

Netflix



Amazon Prime Video









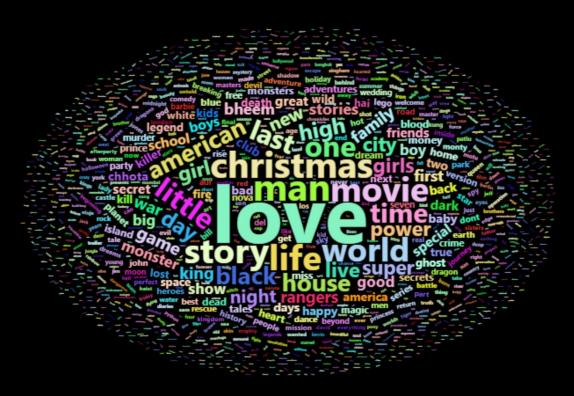




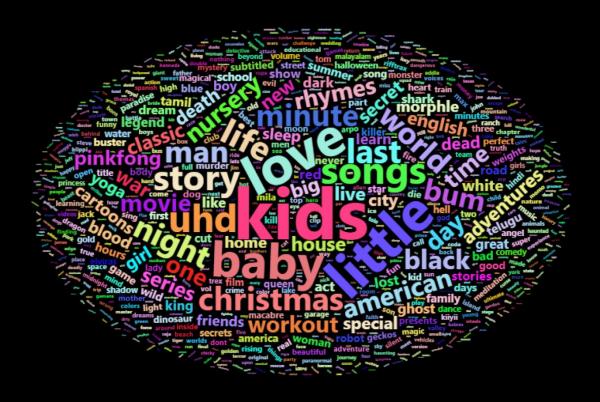
What words are used in show **titles**:

While Netflix is more diversified Amazon seems to focus on kids

Netflix



Amazon Prime Video







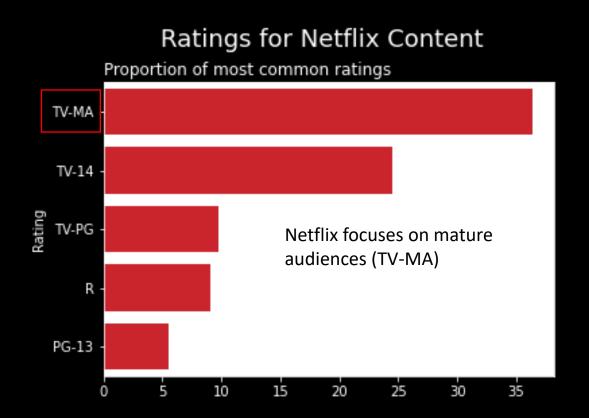


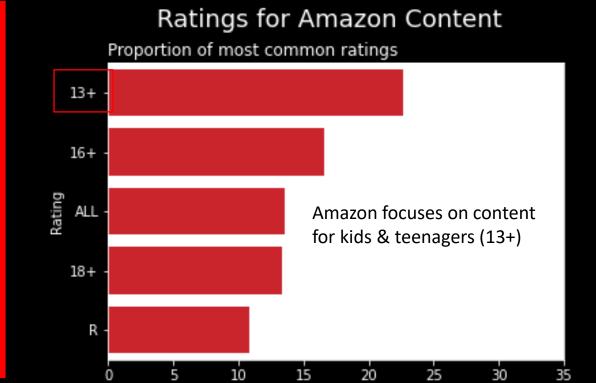




Is the content of the show truly as it appears in the title?

Yes! Rating of shows indicate that titles don't lie.













Rating Comparison

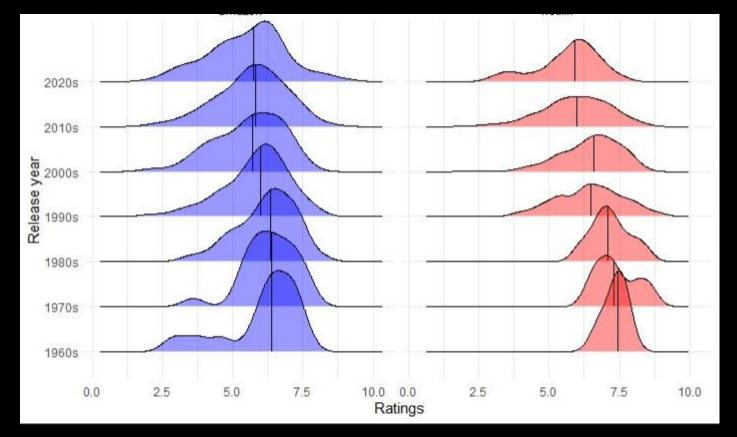


What is the trend in average ratings?

Average rating decreases with time but the variability increase



Netflix





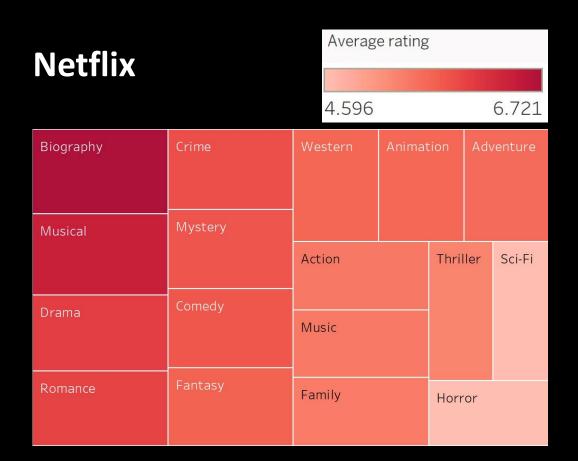




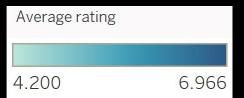


Which genre has the highest average rating?

Biography and Musical enjoy highest average ratings across both platforms



Amazon Prime Video



Biography	Animation	Action	Comedy		Sport		
Mystery	Musical						
		Music		Western		Family	
Drama	Romance						
		Horror					
				Fantasy			
Crime	Adventure	Thriller					
				Sci-Fi			











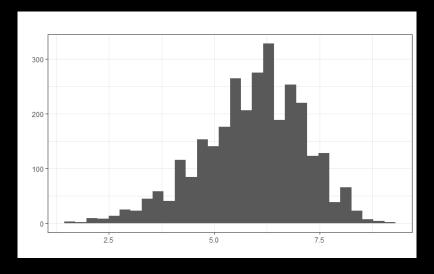
Which factors have the most effect on ratings?

After controlling for year, genre, and movie duration, Netflix has overall better rating by 0.27

All variables are significant

```
Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)
                26.2201585 3.0391229
release vear
                -0.0112088 0.0015123 -7.412 1.61e-13
platformnetflix
                0.2681937 0.0414574
                                       6.469 1.15e-10 ***
                0.3339406
genreAdventure
                           0.1165681
                                       2.865 0.004202
genreAnimation
                0.6881483 0.1568382
                                       4.388 1.19e-05
genreBiography
                1.1444138  0.1072151  10.674  < 2e-16
genreComedy
                0.3218162
                           0.0600940
                                       5.355 9.19e-08
genreCrime
                           0.0910887
                                       6.092 1.26e-09
genreDrama
                0.6120545
                           0.0580316 10.547 < 2e-16 ***
genreFamily
                -0.2501520
                           0.2227907
                                      -1.123 0.261607
genreFantasy
                0.0680936 0.2766006
                                       0.246 0.805560
                -0.3353884 0.0927352 -3.617 0.000303 ***
genreHorror
                -0.0992196 0.7722480
                                      -0.128 0.897776
genreMusic
genreMusical
                0.0390230 0.3695618
                                       0.106 0.915913
                0.5579923 0.2420029
                                       2.306 0.021194 *
genreMystery
                0.2740779 0.2608575
                                       1.051 0.293490
genreRomance
                -0.6164669 0.3485210
genreSci-Fi
                                      -1.769 0.077027
                0.5284498
                           0.5476723
genreSport
                                       0.965 0.334672
genreThriller
                -0.0559172
                           0.1694831
                                      -0.330 0.741477
                0.0973672 0.3201903
                                       0.304 0.761079
genreWestern
movie_duration
                0.0160446
                           0.0008719
                                      18.403
                                              < 2e-16
                  '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.09 on 3005 degrees of freedom
Multiple R-squared: 0.2192.
                               Adjusted R-squared: 0.214
F-statistic: 42.18 on 20 and 3005 DF, p-value: < 2.2e-16
```

Average movie rating has an approx. normal distribution







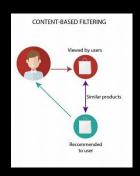




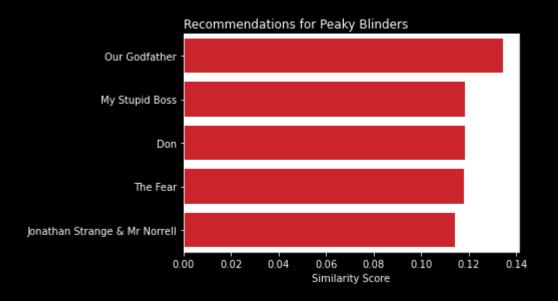


For the way home: What should you watch next?

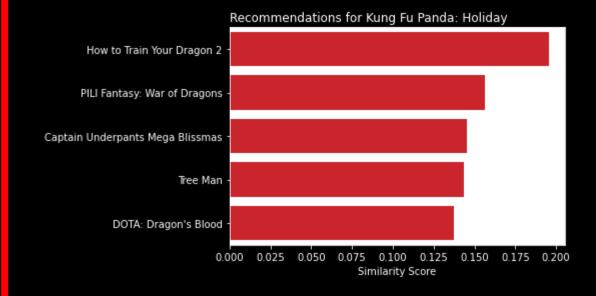
Our content-based recommendation system says -



...if you watched Peaky Blinders:



...if you watched Kung Fu Panda:











Back



Conclusion

Netflix:

- <u>Majority of content</u> is from English speaking countries and gets added in winter months
- Top ten movies are all from the USA and India
- Netflix profits from a few directors that produce a lot of content

The comparison:

- While Netflix has more diversified content, Amazon focuses on younger audiences
- Older movies enjoy higher ratings on both platforms
- Biographies enjoy highest ratings on both platforms
- · Netflix contains higher rated movies on average compared to Prime, as seen through the regression model











Metflix

Are you still watching?

Continue watching

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