

Background or Abstract

Streaming services have surpassed traditional cable media in demand and popularity. Both Netflix and Hulu being platforms revolutionizing this media consumption.

This research will explore content library differences between Netflix and Hulu. The research will also examine several reasons consumers prefer Netflix over Hulu.



Figure 1: Netflix Logo.

Research Questions

- 1) How do content types differ amongst Netflix and Hulu's catalog?
- 2) How does the release year of a movie and show differ between Netflix and Hulu?

Related Research

Examining Netflix and Hulu's different content strategy approaches will reveal users' preference and how Netflix has more users than Hulu. This study contributes to science by providing analysis of consumer trends and behavior.

Data

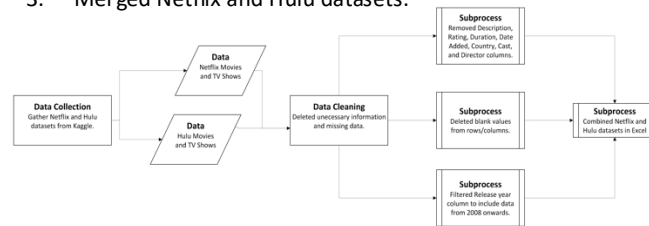
Both of my datasets are from Shivam Bansal on Kaggle and are structure datasets. The structured data come in a zip file with an excel and csv spreadsheet. The first dataset is titled "Netflix Movies and TV Shows" and is 3.4 MB as it contains 8,807 rows and 9 columns.

My Second dataset is titled "Hulu Movies and TV Shows" and is 1.1 MB with 3,045 rows and 9 columns. Both datasets consist of the same column names. The columns are movie name, tv show name, director, cast, where the content was recorded, release date, when Netflix/Hulu released the content, rating, and duration.

Preprocessing

These are the key steps taken to process the data for analysis and visualization using Excel.

1. Removed blank values and columns that were unnecessary.
2. Filtered the year column for Netflix and Hulu dataset from 2008 onwards.
3. Merged Netflix and Hulu datasets.



Workflow Diagram: The processes I performed throughout this Research Project.

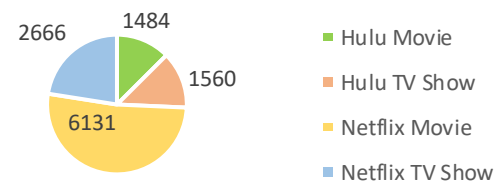
Methods or Analysis

To help answer our research question, descriptive analysis is an approach that will be firstly used to reveal the content count difference between Netflix and Hulu. Next, we will group release years to compare if the platforms tend to upload newer or older content. In other words, we will make distributions to examine release years.

Results

Visualizations below depict findings for the research topic:

Content Type Distribution for Netflix and Hulu

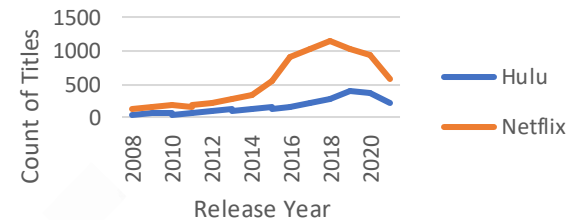


Pie Chart: Proportion of TV Shows and Movies on Netflix and Hulu.

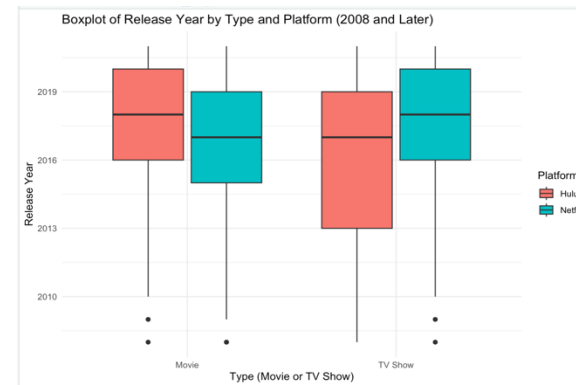
Count of title	Column Labels	
Row Labels	Hulu	Netflix
<2008	555	1045
2008-2012	395	901
2013-2017	809	3130
2018-2022	1285	3721

Table: Netflix offers a significantly larger collection of newer and older titles than Hulu.

Title's Release Year Trend



Line Chart: Most of Netflix's titles came out after 2014 and Hulu's line gradually grows experiencing a surge around 2016.



Box Plot: Netflix's catalog is more diverse than Hulu's and Hulu tends to focus on uploading newer releases (especially movies).

Discussion

This analysis revealed the content type difference between Netflix and Hulu. Netflix offers both a wider variety of tv shows and movies for their users to choose from than Hulu. Netflix has a higher proportion of movies than tv shows while Hulu has a higher proportion of tv shows than movies. Additionally, the line chart shows that Netflix emphasizes offering users a mixture of newer and older content while Hulu tends to focus on newer content. A limitation of this data is having a restrictive catalog that doesn't include every regions tv shows and movies due to licensing agreements.

Conclusion

This research is important because it shows Netflix and Hulu catalog strategy when deciding what content to offer their users. Since the streaming space is rapidly evolving, analyzing this data reveals how Netflix and Hulu differentiate from one another.

Future Work

- Analyze Other Streaming platforms such as Disney+, HBO Max, Amazon Prime, Paramount+, Apple TV, and Peacock.
- Perform descriptive analysis and even possibly correlation analysis on the other datasets
- Compare other streaming platforms results to Netflix and Hulu

References

1. Bansal, S. (n.d.-a). *Hulu Movies and TV Shows*. Kaggle. <https://www.kaggle.com/datasets/shivamb/hulu-movies-and-tv-shows>
2. Bansal, S. (n.d.-b). *Netflix Movies and TV Shows*. Kaggle. <https://www.kaggle.com/datasets/shivamb/netflix-shows>