

# Streaming Platforms Contents

Exploratory Data Analysis  
*(based on streamlit app)*

By Wang Xing'en & Zhang Aizhong

# Datasets

From [kaggle.com](https://www.kaggle.com)

- The dataset we chose: Streaming platform movies & TV shows content.



- Amazon Prime Video Movies and TV Shows
- Disney+ Movies and TV Shows
- Netflix Prime Video Movies and TV Shows
- Hulu Movies and TV Shows

# Variables in dataset

#columns:12

- show\_id: Unique ID for every Movie / Tv Show.
- type: Identifier - A Movie or TV Show
- title: Title of the Movie / Tv Show
- director: Director of the Movie
- cast: Actors involved in the movie / show
- country: Country where the movie / show was produced
- **date\_added**: Date it was added on Netflix
- **release\_year**: Actual Release year of the move / show
- rating: TV Rating of the movie / show
- duration: Total Duration - in minutes or number of seasons
- listed\_in: Genere
- description: The summary description

# Questions

Overall strategy?

Best timing for producer?

Most valuable person?

Potential country?

See Demo!

# Side Bar

## Meta Info

LOGIN: [test@localhost.com](mailto:test@localhost.com)

#entities of current dataset: **8794**

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## Filters

☐ Static mode

Choose a stream platform

☒ Netflix

☐ Disney Plus

☐ Amazon Prime

☐ Hulu

☐ All

Starting years of content(released)

1925



1925

2021

Which list u interested:

Choose an option



# Header

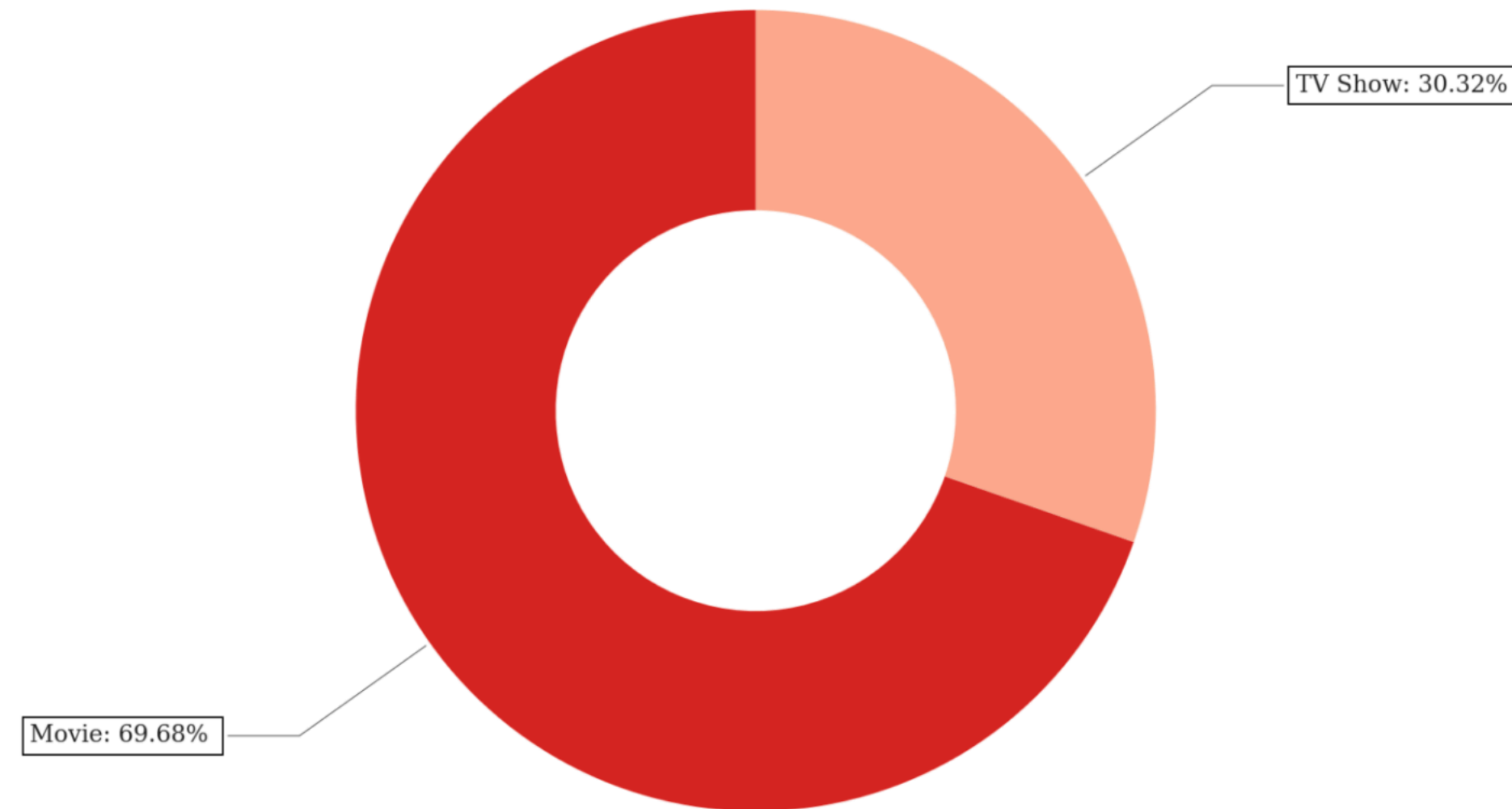
## Stream media platform data app

*by Wang Xing'en & Zhang Aizhong*

OVERVIEW DATE ADDED FREQ COUNT DURATION

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## Types of Netflix



## Wordcloud





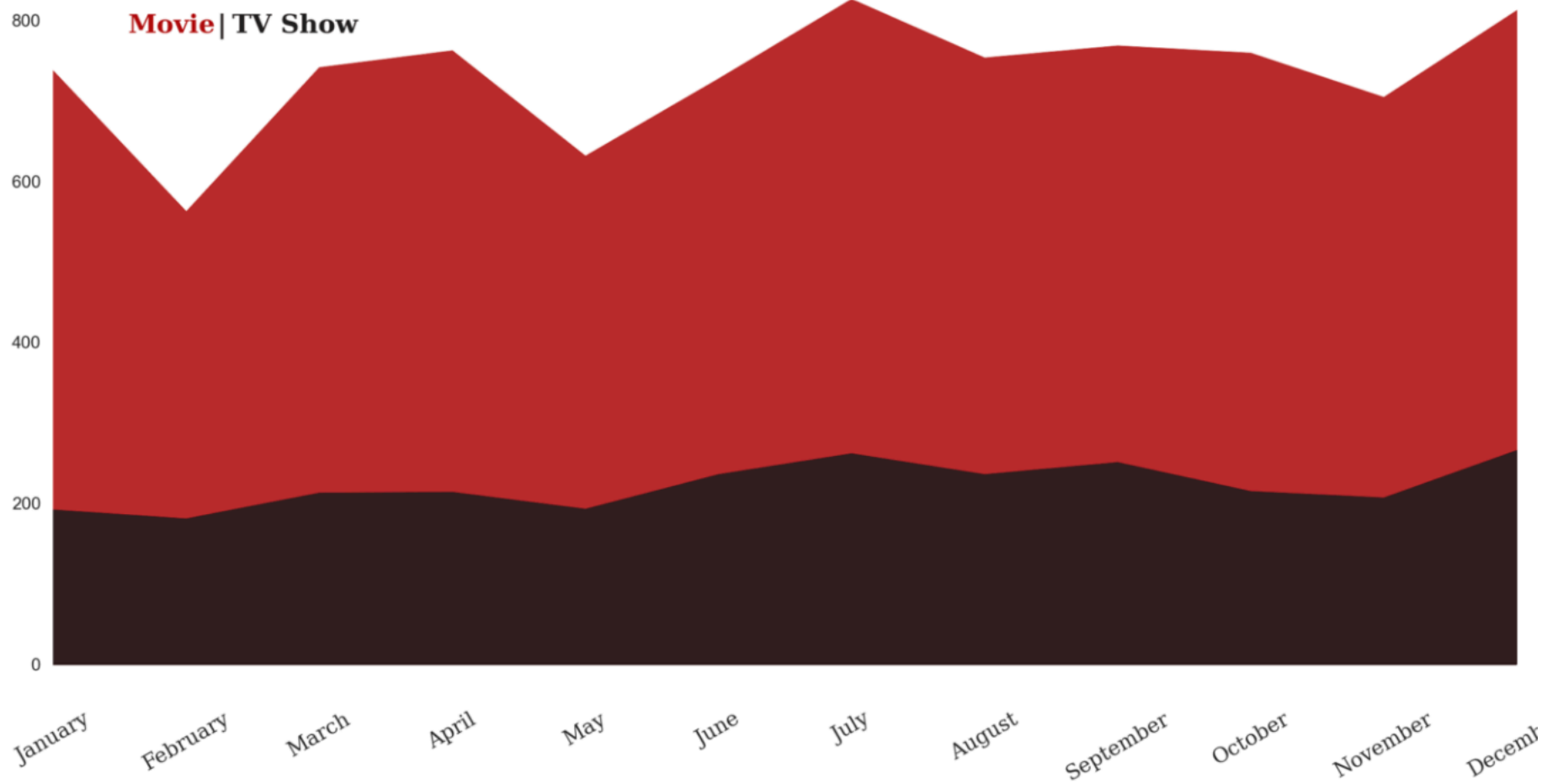
## 2 Add date chart

Best time for producers to release contnets

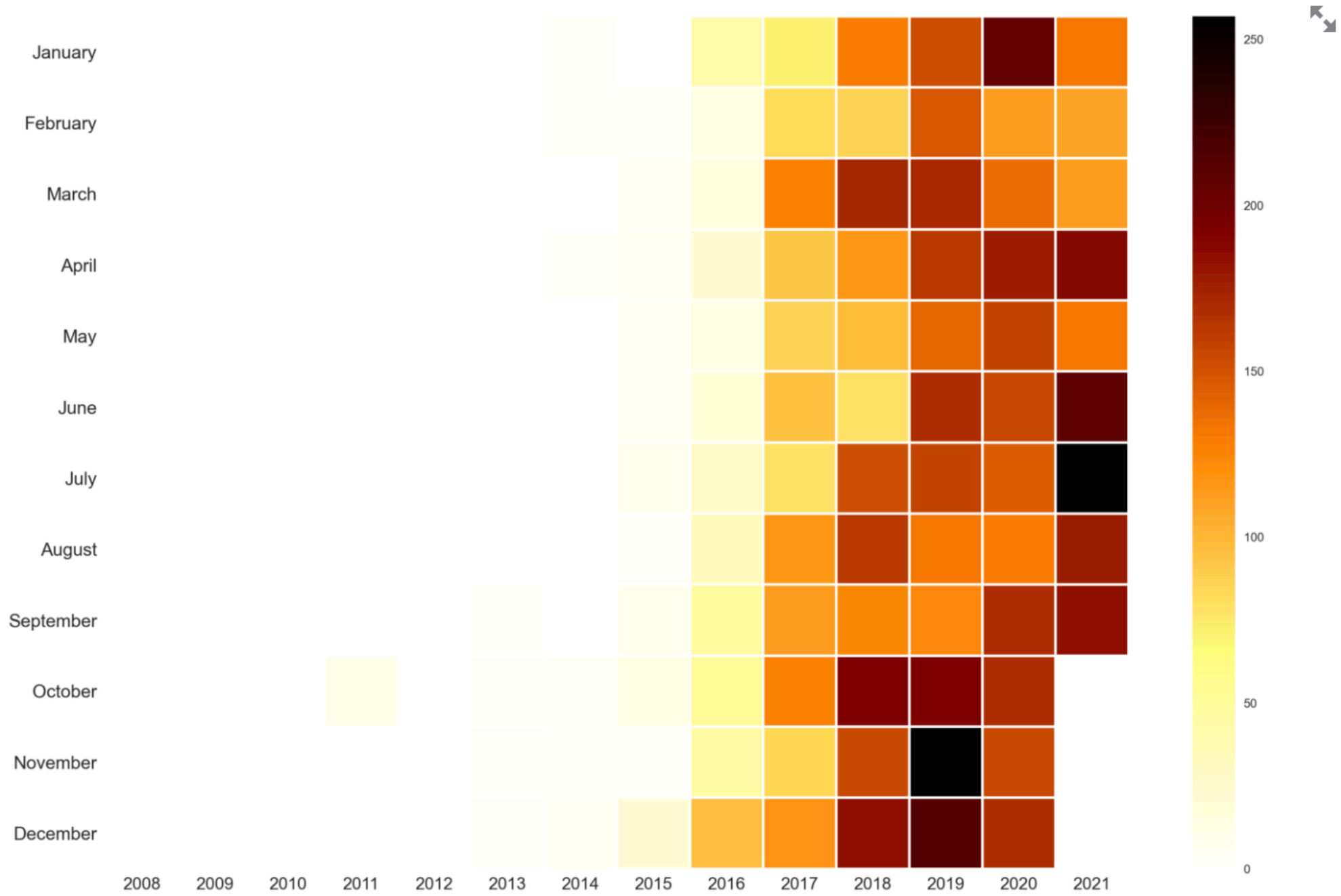
Add date part is not available for amazon dataset

Line plot   Heatmap

### Netflix contents added date - Line plot



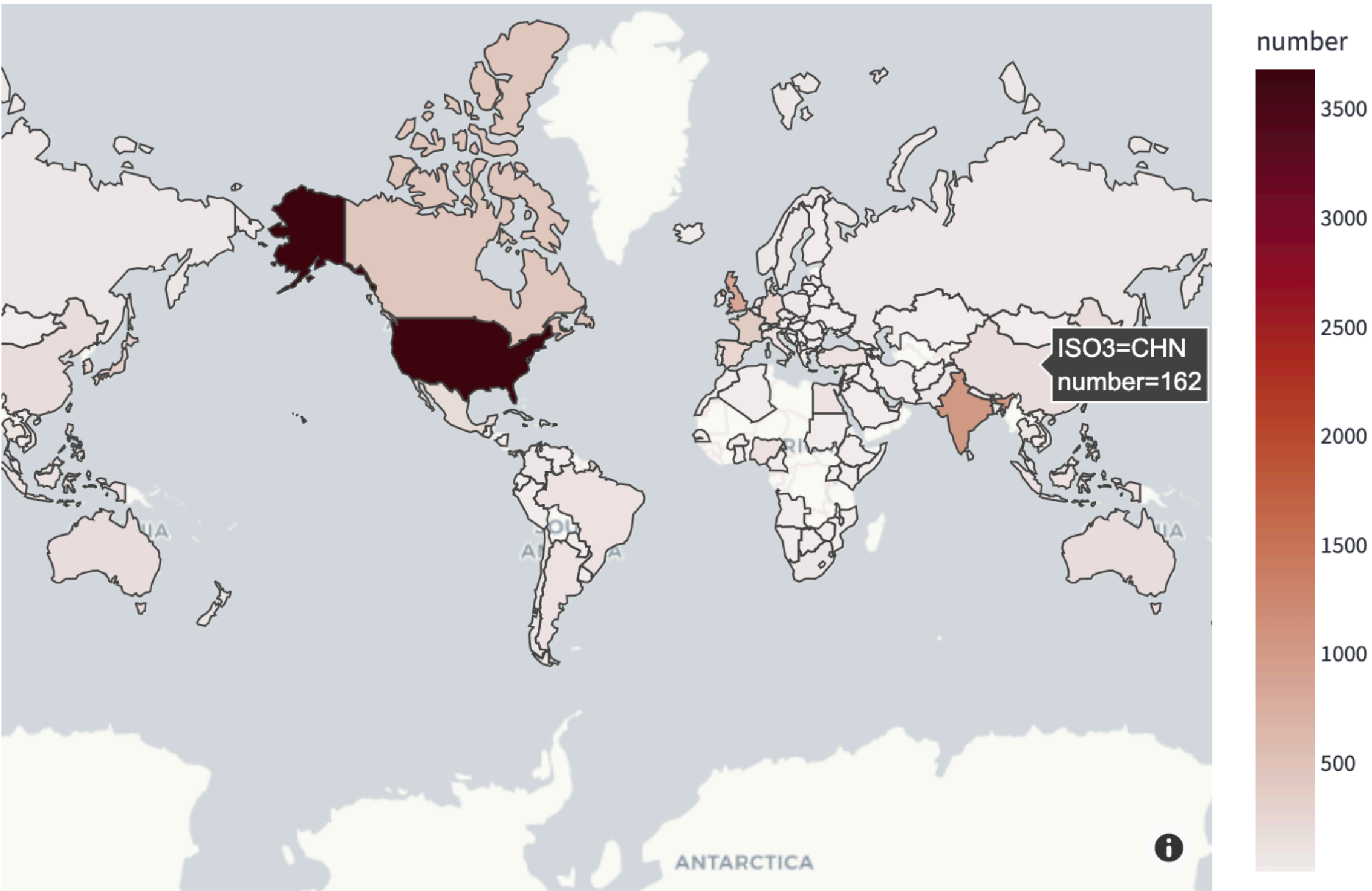
### Netflix contents added date - Heatmap



# 3 Most frequent ...

Director   Cast   Country   **Map**

## Netflix's Countries map

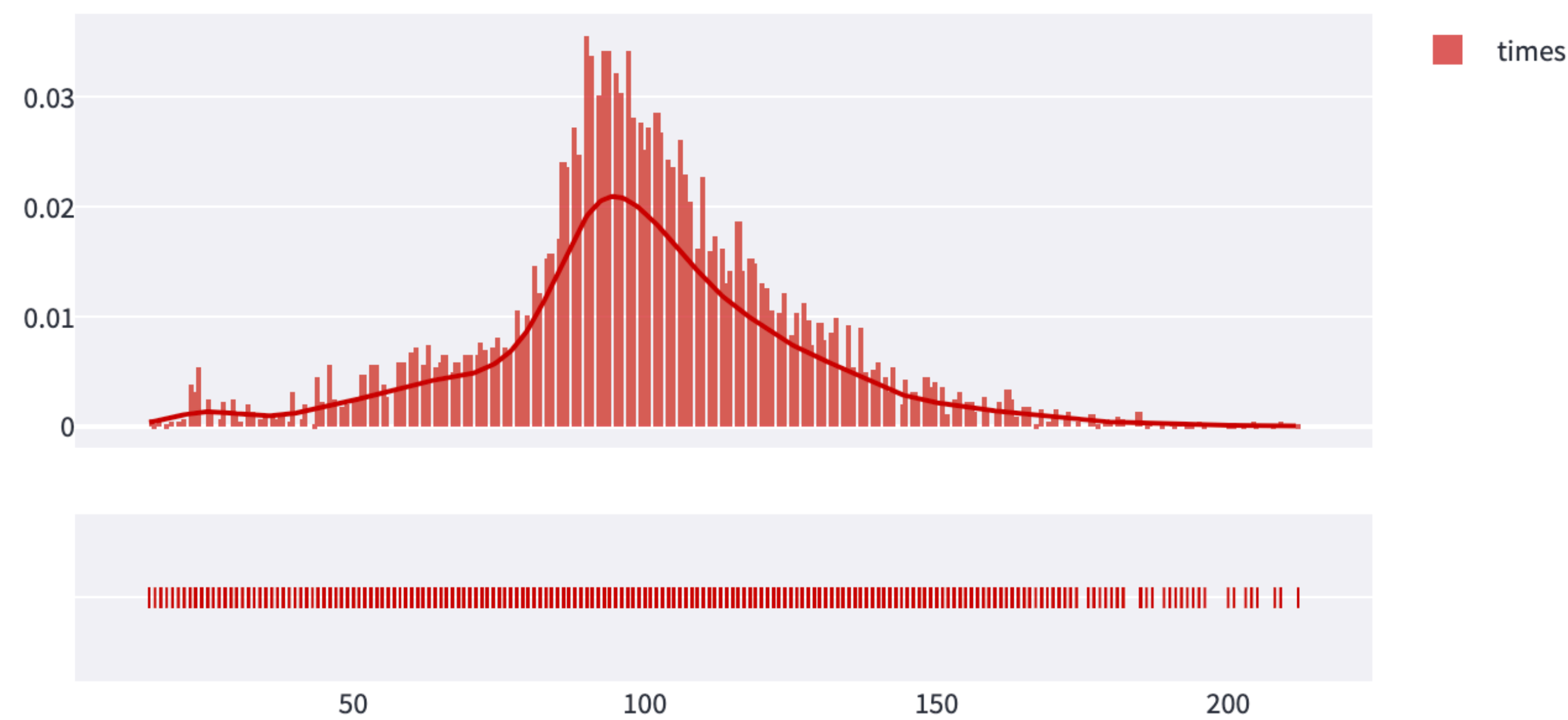


# Duration distribution

Movie Duration TV Seansons



Movie time with KDE Distribution



# Live Demo

- <https://derekwang2002-final-project-eda-deploy-sqq3hk.streamlitapp.com/>

# Findings

- In general, movies takes a larger percentage of all platforms. However, the tv show is taking a larger percentage recently, it might be the current strategy for streaming platforms.
- Overall, the contents published more on last half year. But it is quit different for different dataset you chose. For Disney, the peak appeared in november is caused by its first-establish add.
- In 2020, there is a drop in added content, that may caused by the COVID-19.
- The United States has always been the most important market of the platform, followed by Britain and India. Since the beginning of the 21st century, the color of China, Japan and Egypt has been deepening, indicating that the film industry of these countries has developed rapidly and quickly stepped onto the international stage. In the future, the film industry of these countries may be more valuable for investment.
- Most of the movie duration are between 90 to 110min, thus such a length may be more popular with audiences. Most of the TV show only have one season. So the director and investor really need to consider whether to make another season for their TV shows