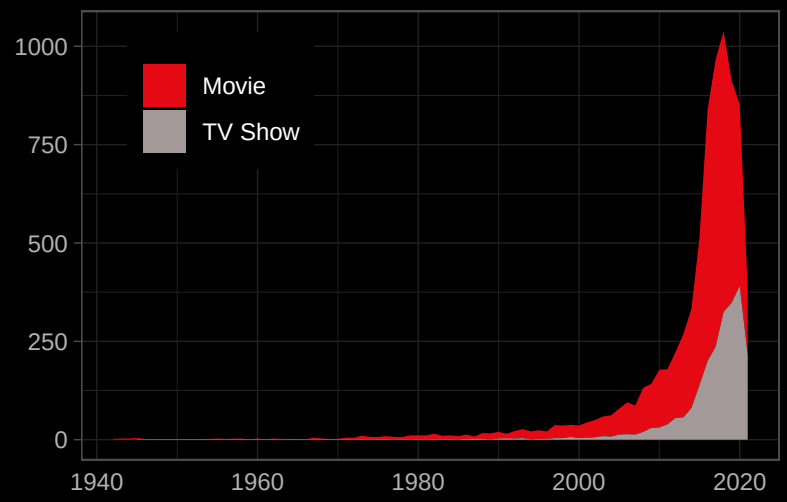
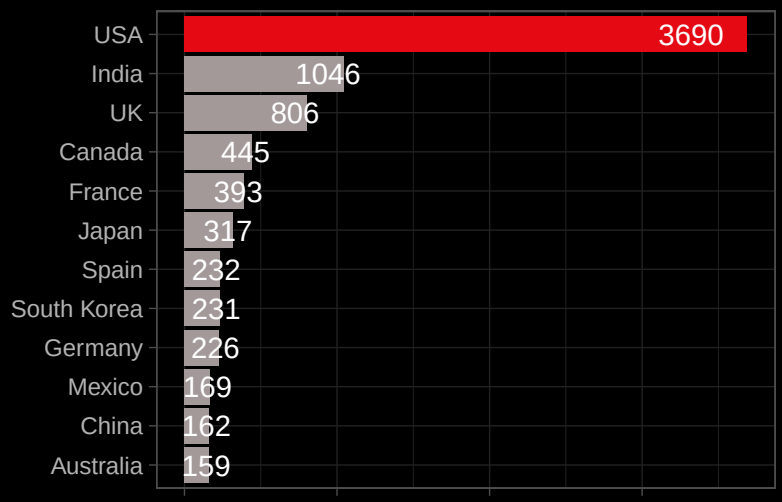
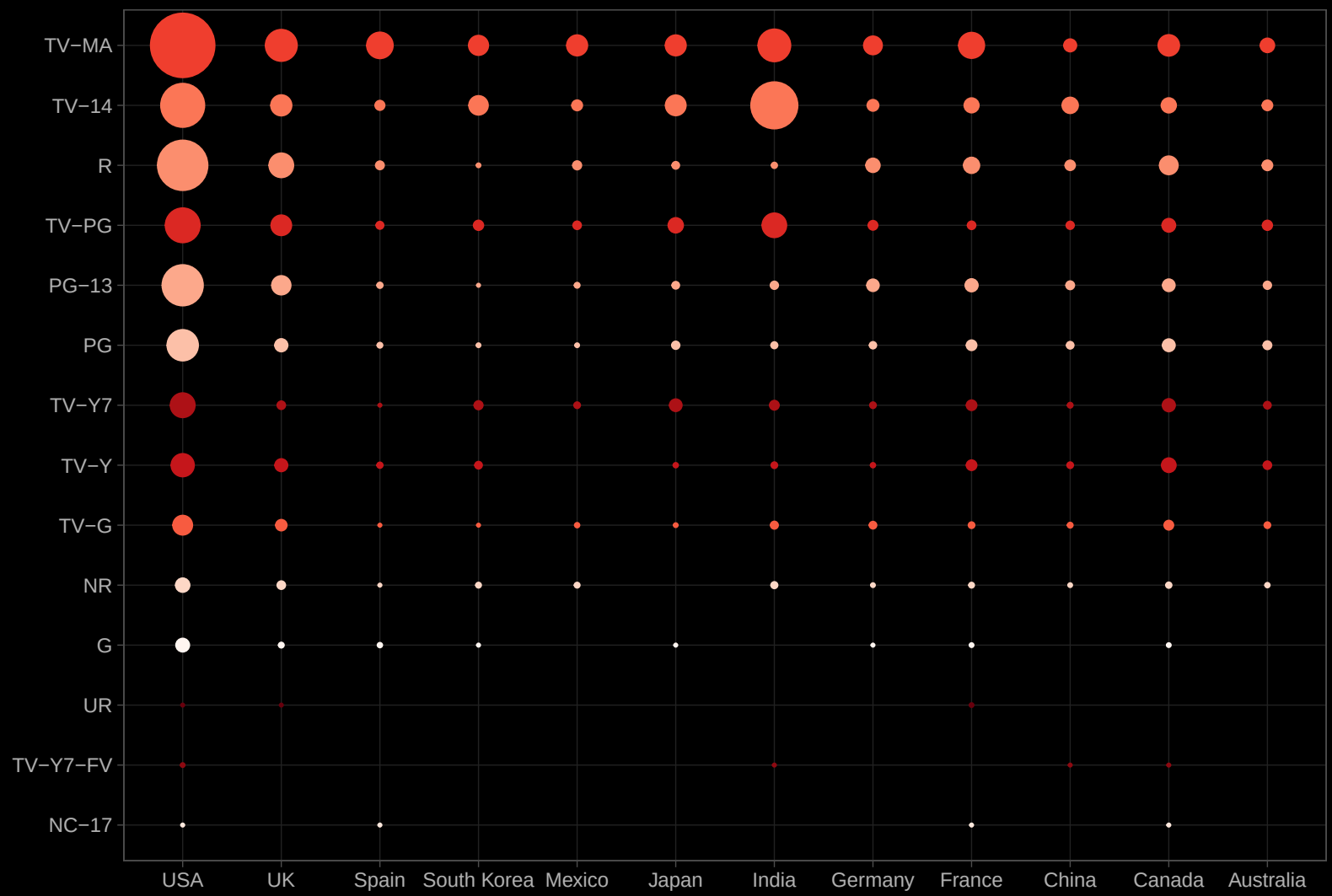
## Release Year of Movie/TV Show on Netflix



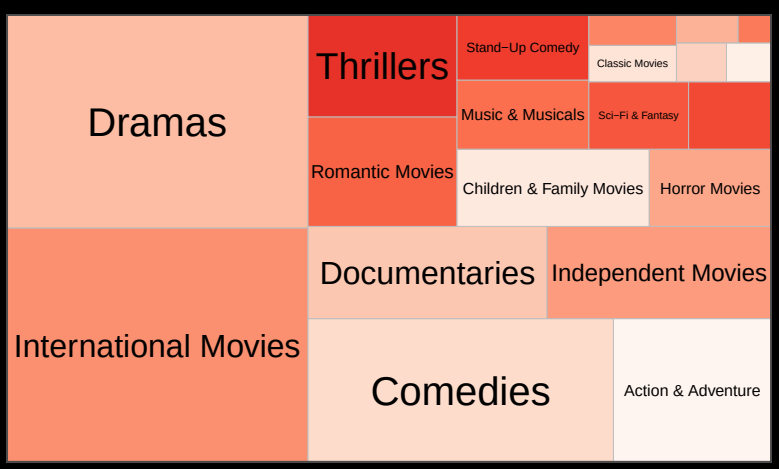

## Top 10% Country of Netflix Source



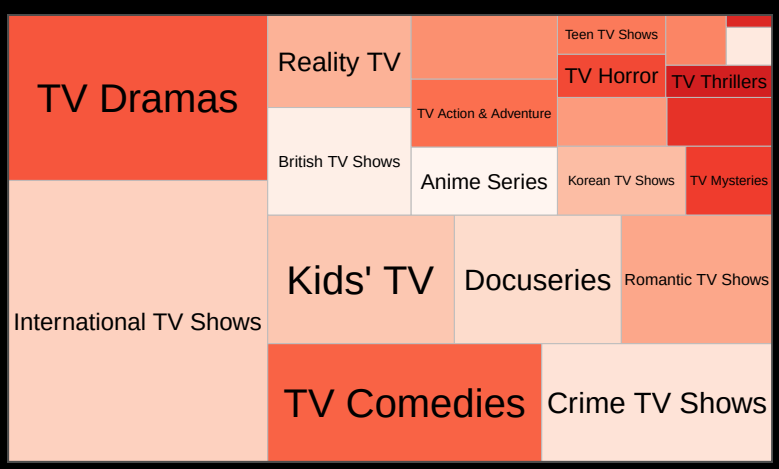

## Top 10% Country with Movie/TV Show Rating on Netflix




## Different Movie Genres on Netflix




## Different TV Show Genres on Netflix




*Copyright: Wei (Will) Jiang, Source: https://www.kaggle.com/shivamb/netflix−shows*

NETFLIX

# Netflix Movie/TV Show Data Visualization with ggplot2 in R

Wei (Will) Jiang

## Data Introduction

This dataset consists of movies and TV shows available on Netflix as of September, 2021. The dataset is found on Kaggle and is collected from Flixable, which is a third-party Netflix search engine. After data exploration and data cleaning by using the dplyr package, I choose some attributes like type, country, rating, genre to conduct my visualization by using the ggplot package.

## Exploratory Data Analysis

- ***Release Year of Movie/TV Show on Netflix***

Netflix includes movies and TV shows which can be either original or not. Hence, the release year represents the time that films are made instead of the date they are available on the platform. Here I use area plot to show the release year distribution. It's pretty clear that most resources available on Netflix were released after 2000 and especially recent 5 years. Besides, the main resource in Netflix is always the movie tough TV show is also increasing rapidly.

- ***Top 10% Country of Netflix Source***

The bar chart shows the number of movies/TV shows on Netflix that is made by a certain country. The count has overlap since there are cooperation between countries when making films. We can find that USA devotes the largest portion of movies/TV shows on the platform, which is tripled than the secondary country India and is four times as that of the third-place country, UK. In East Asia, Japan ranks the first place.

- ***Countries with Movie/TV Show Rating Categories on Netflix***

In the bubble plot, the x-axis shows different countries and the y-axis shows different rating categories which is ranked by total counts of that category in all the top 10% countries. TV-MA and R is the most common TV Show/Movie rating of United Stated respectively. Same thing happens to UK. However, in India shows, TV-14 is the most common rating.

- ***Different Movie/TV Show Genres on Netflix***

The tree map can present different genre categories in a clear and straightforward way. Different size represents different proportions of genres. We can find that dramas are the most common movie genres and is followed by comedies and thrillers. Regards to TV Show, dramas and comedies take the first two place and crime shows rank the third.

## Next Step

For further analysis, IMDB and Rotten Tomatoes score data can be joint to this Netflix dataset to explore score distributions and changes over time, which can be interesting and is also critical for Netflix to keep making profits.