Business Case: Netflix - Data Exploration and Visualisation

** Problem Statement**

Netflix wants to understand what kind of shows/movies to produce and how to grow in different countries. Using the dataset of all available titles on Netflix, we aim to derive actionable insights and recommend content strategies using data.

Import Libraries & Load Dataset

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

Load the Dataset

```
!wget
https://d2beigkhg929f0.cloudfront.net/public assets/assets/000/000/940
/original/netflix.csv
--2025-05-10 15:59:02--
https://d2beigkhq929f0.cloudfront.net/public assets/assets/000/000/940
/original/netflix.csv
Resolving d2beigkhg929f0.cloudfront.net
(d2beigkhg929f0.cloudfront.net)... 3.169.117.64, 3.169.117.63,
3.169.117.127, ...
Connecting to d2beigkhg929f0.cloudfront.net
(d2beiqkhq929f0.cloudfront.net)|3.169.117.64|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3399671 (3.2M) [text/plain]
Saving to: 'netflix.csv.1'
netflix.csv.1
                   100%[===========] 3.24M --.-KB/s
0.04s
2025-05-10 15:59:02 (91.1 MB/s) - 'netflix.csv.1' saved
[3399671/3399671]
```

```
df=pd.read csv('netflix.csv')
df
{"summary":"{\n \"name\": \"df\",\n \"rows\": 8807,\n \"fields\":
[\n {\n \"column\": \"show id\",\n \"properties\": {\n
\"dtype\": \"string\",\n \"num unique values\": 8807,\n
\"samples\": [\n \"s4971\",\n \"s3363\",\n \"s5495\"\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\n },\n {\n \"column\": \"type\",\n \"dtype\": \"category\",\n
\"num_unique_values\": 2,\n \"samples\": [\n \"TV \\ Show\",\n \"Movie\"\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n \\ "column\": \"title\",\n \"properties\": {\n \"dtype\":
\"string\",\n \"num_unique_values\": 8807,\n
\"samples\": [\n \"Game Over, Man!\",\n \"Arsenio
Hall: Smart & Classy\"\n ],\n \"semantic_type\": \"\",\n
\"description\": \"\"\n }\n {\n \"column\":
Ma, Christine Ko, Hong-Chi Lee, Hayden Szeto, Kunjue Li, Fiona Fu,
James Saito, Joan Chen\",\n \"Priyanshu Painyuli,
Chandrachoor Rai, Shadab Kamal, Rajeev Siddhartha, Sheetal Thakur,
Ninad Kamat, Swati Semwal, Eijaz Khan\"\n
                                                                        ],\n
\"semantic_type\": \"\",\n \"description\": \"\"\n }\
n },\n {\n \"column\": \"country\",\n \"properties\":
{\n \"dtype\": \"category\",\n \"num_unique_values\":
748,\n \"samples\": [\n \"United States, United
Kingdom, Denmark, Sweden\",\n \"United Kingdom, Hong Kong\"\n
],\n \"semantic_type\": \"\",\n \"description\": \"\"\n
}\n },\n {\n \"column\": \"date_added\",\n
\"properties\": {\n \"dtype\": \"category\",\n
\"num_unique_values\": 1767,\n \"samples\": [\n \"October 22, 2018\",\n \"January 29, 2021\"\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\\n \\"n \\"n \\"column\": \"release_year\",\n \"properties\": \\"\"dtype\": \"number\",\n \"std\":
8,\n \"min\": 1925,\n \"max\": 2021,\n \"num_unique_values\": 74,\n \"samples\": [\n
                                                                                                    1996,\n
\"description\": \"\"\n \\n \\n\\"column\": \\"rating\",\n \\"properties\": \\"category\",\n \\"num_unique_values\": 17,\n \\"samples\": \\"\ "PG-13\",\n \\"description\": \\"\"\n \\"semantic_type\": \\"\",\n \\"description\\": \\"\"\n
```

```
}\n },\n {\n \"column\": \"duration\",\n
\"properties\": {\n \"dtype\": \"category\",\n
\"num_unique_values\": 220,\n \"samples\": [\n \\min\",\n \"177 min\"\n ],\n \"semantic_ty\\"\",\n \"description\": \"\"\n }\n {\n \\"column\": \"listed_in\",\n \"properties\": {\n \\"dtype\": \"category\",\n \"num_unique_values\": 514,\n
                                                                  \"semantic type\":
\"samples\": [\n \"Crime TV Shows, International TV Shows, TV Mysteries\",\n \"Children & Family Movies, Classic Movies, Dramas\"\n ],\n \"semantic type\": \"\\".\n
\"description\": \"\"\n
                                     }\n },\n {\n \"column\":
\"description\",\n \"properties\": {\n
                                                                   \"dtvpe\":
\"string\",\n \"num_unique_values\": 8775,\n \"samples\": [\n \"A heedless teen drifter who falls for a
small-town waitress makes the mistake of robbing a drug lord, putting
his life and newfound love in jeopardy.\",\n \"Twelve-year-
old Calvin manages to join the navy and serves in the battle of
Guadalcanal. But when his age is revealed, the boy is sent to the
\"description\": \"\"\n }\n
                                               }\n 1\
n}","type":"dataframe","variable_name":"df"}
```

Data Overview & Cleaning

```
\"cast\",\n \"properties\": {\n \"dtype\": \"string\",\n
\"num_unique_values\": 7692,\n \"samples\": [\n
Ma, Christine Ko, Hong-Chi Lee, Hayden Szeto, Kunjue Li, Fiona Fu,
James Saito, Joan Chen\",\n \"Priyanshu Painyuli,
Chandrachoor Rai, Shadab Kamal, Rajeev Siddhartha, Sheetal Thakur,
Ninad Kamat, Swati Semwal, Eijaz Khan\"\n ],\n
\"semantic_type\": \"\",\n \"description\": \"\"\n
n },\n {\n \"column\": \"country\",\n \"properties\":
           \"dtype\": \"category\",\n \"num_unique_values\":
{\n
748,\n \"samples\": [\n \"United States, United Kingdom, Denmark, Sweden\",\n \"United Kingdom, Hong Kong\"\n
],\n \"semantic_type\": \"\",\n
                                                 \"description\": \"\"\n
\"num unique_values\": 1767,\n \"samples\": [\n
8,\n \"min\": 1925,\n \"max\": 2021,\n \"num_unique_values\": 74,\n \"samples\": [\n
                                                                   1996,\n
}\n },\n {\n \"column\": \"duration\",\n
\"properties\": {\n \"dtype\": \"category\",\n
\"num_unique_values\": 220,\n \"samples\": [\n \"37 \\"num_\",\n \"177 \\"nn\\"\n },\n \\"semantic_type\": \\"\",\n \"description\": \"\"\n }\n },\n \\"column\": \"listed_in\",\n \"properties\": \\"dtype\": \"category\",\n \"num_unique_values\": 514,\n
\"samples\": [\n \"Crime TV Shows, International TV Shows, TV Mysteries\",\n \"Children & Family Movies, Classic Movies, Dramas\"\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n \\"n \\"n \\"dtype\": \"dtype\": \"string\" \n \\"num unique values\": \2775 \"
\"string\",\n \"num_unique_values\": 8775,\n
\"samples\": [\n \"A heedless teen drifter who falls for a
small-town waitress makes the mistake of robbing a drug lord, putting
his life and newfound love in jeopardy.\",\n \"Twelve-year-
old Calvin manages to join the navy and serves in the battle of
Guadalcanal. But when his age is revealed, the boy is sent to the
brig.\"\n
            ],\n \"semantic type\": \"\",\n
```

```
\"description\": \"\"\n
                         }\n
n}","type":"dataframe","variable_name":"df"}
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8807 entries, 0 to 8806
Data columns (total 12 columns):
 #
     Column
                   Non-Null Count Dtype
     -----
 0
     show id
                   8807 non-null
                                   object
     type
 1
                   8807 non-null
                                   object
 2
     title
                   8807 non-null
                                   object
    director
 3
                   6173 non-null
                                   object
                   7982 non-null
 4
     cast
                                   object
    country
date_added
 5
                  7976 non-null
                                   object
 6
                   8797 non-null
                                   object
 7
    release_year 8807 non-null
                                   int64
 8
                   8803 non-null
                                   object
    rating
     duration
 9
                   8804 non-null
                                   object
 10
    listed in
                   8807 non-null
                                   object
 11 description 8807 non-null
                                   object
dtypes: int64(1), object(11)
memory usage: 825.8+ KB
df.isnull().sum()
                   0
show id
type
                   0
title
                   0
director
                2634
                 825
cast
                 831
country
date added
                  10
release year
                   0
rating
                   4
                   3
duration
                   0
listed in
description
                   0
dtype: int64
df[df.duplicated()]
{"repr error":"Out of range float values are not JSON compliant:
nan","type":"dataframe"}
df['director'].fillna("Unknown_Value",inplace=True)
df['cast'].fillna("Unknown Value",inplace=True)
df['country'].fillna("Unknown Value",inplace=True)
```

<ipython-input-42-e84223180a08>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

df['director'].fillna("Unknown_Value",inplace=True)
<ipython-input-42-e84223180a08>:2: FutureWarning: A value is trying to
be set on a copy of a DataFrame or Series through chained assignment
using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

df['cast'].fillna("Unknown_Value",inplace=True)
<ipython-input-42-e84223180a08>:3: FutureWarning: A value is trying to
be set on a copy of a DataFrame or Series through chained assignment
using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['country'].fillna("Unknown_Value",inplace=True)
df.dropna(subset=['date_added'],inplace=True)
df.dropna(subset=['rating'],inplace=True)
df.dropna(subset=['duration'],inplace=True)
df.nunique()
show_id 8790
type 2
```

```
title
                8790
director
                4527
cast
                7679
                 749
country
date added
                1765
                  74
release_year
                  14
rating
duration
                 220
listed in
                 513
description
                8758
dtype: int64
```

Convert 'date_added' to datetime

```
df['date_added'] = pd.to_datetime(df['date_added'], format='%B %d,
%Y', errors='coerce')
```

Convert 'rating', 'type', etc. to category

```
df['type'] = df['type'].astype('category')
df['rating'] = df['rating'].astype('category')
```

Non-Graphical Analysis

```
df['type'].value counts()
df['country'].value_counts().head(10)
df['listed in'].value counts().head(10)
df['release_year'].value_counts().sort_index().tail(30)
release year
1992
          23
1993
          28
1994
          22
          25
1995
          24
1996
1997
          38
1998
          36
1999
          39
2000
          37
2001
          45
          51
2002
          59
2003
2004
          64
2005
          80
2006
          96
2007
          88
```

```
2008
         135
2009
         152
2010
         192
2011
         185
2012
         236
2013
         286
2014
         352
2015
         555
2016
         901
2017
        1030
2018
        1146
2019
        1030
2020
         953
2021
         592
Name: count, dtype: int64
df.nunique()
                 8790
show id
                    2
type
title
                 8790
                 4527
director
cast
                 7679
country
                 749
date added
                 1697
release year
                   74
                   14
rating
duration
                  220
listed in
                  513
description
                 8758
dtype: int64
```

Data Analysis and Data Visualization.

```
\"samples\": [\n
                       \"Roman Empire: Reign of Blood\",\n
\"The King's Speech\"\n
                                ],\n \"semantic type\": \"\",\n
Hernandez, Jos\\u00e9 Ram\\u00f3n Rosario, Thomas Rosales Jr.\",\n
\"Vanessa Paradis\"\n ],\n \"semantic_type\": \"\",\n
\"description\": \"\"\n }\n {\n \"column\":
\"country\",\n \"properties\": {\n \"dtype\":
\"category\",\n \"num_unique_values\": 749,\n
\"samples\": [\n \"United States, United Kingdom, Denmark,
Sweden\",\n \"Spain, France\"\n ],\n
\"semantic_type\": \"\",\n \"description\": \"\"\n
                                                                            }\
\"2008-01-01 00:00:00\",\n \"max\": \"2021-09-25 00:00:00\",\n \"num_unique_values\": 1697,\n \"samples\": [\n \"2019-10-30 00:00:00\",\n \"2021-05-19 00:00:00\"\
          ],\n \"semantic_type\": \"\",\n
\"column\":
\"release_year\",\n \"properties\": {\n \"dtype\":
\"number\",\n \"std\": 8,\n \"min\": 1925,\n \"max\": 2021,\n \"num_unique_values\": 74,\n \"samples\": [\n 1996,\n 1969\n ],
\"semantic_type\": \"\",\n \"description\": \"\"\n
                                                                            }\
n },\n {\n \"column\": \"rating\",\n \"properties\":
{\n \"dtype\": \"category\",\n \"num_unique_values\":
14,\n \"samples\": [\n \"G\",\n \"NR\"\n
],\n \"semantic_type\": \"\",\n \"description\": \"\"\n
}\n },\n {\n \"column\": \"duration\",\n
\"properties\": {\n \"dtype\": \"category\",\n
\"num_unique_values\": 220,\n \"samples\": [\n \"37 min\",\n \"177 min\"\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\n {\n
\"column\": \"listed_in\",\n \"properties\": {\n
\"dtype\": \"category\",\n \"num_unique_values\"
                                       \"num unique_values\": 513,\n
\"samples\": [\n
                              \"Crime TV Shows, International TV Shows, TV
                            \"Children & Family Movies, Classic Movies,
Mysteries\",\n
                ],\n
                                   \"semantic_type\": \"\",\n
Dramas\"\n
\"description\": \"\"\n
\"string\",\n \"num_unique_values\": 8758,\n
\"samples\": [\n \"Led by a trio of Korean celebs, a
```

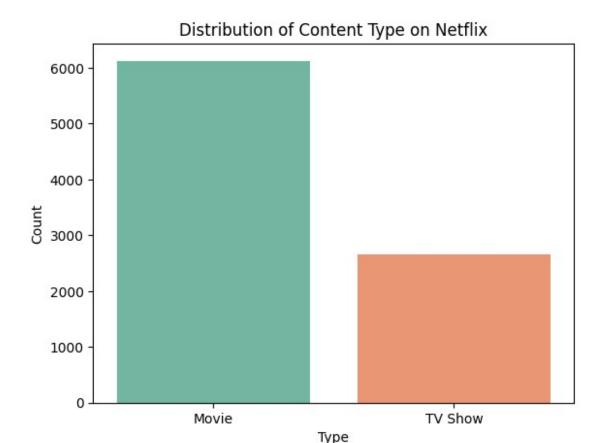
Q1. What is the distribution of content type (Movies vs. TV Shows)?

```
sns.countplot(x='type', data=df, palette='Set2')
plt.title("Distribution of Content Type on Netflix")
plt.xlabel("Type")
plt.ylabel("Count")
plt.show()

<ipython-input-53-b9caf8cb1748>:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

sns.countplot(x='type', data=df, palette='Set2')
```



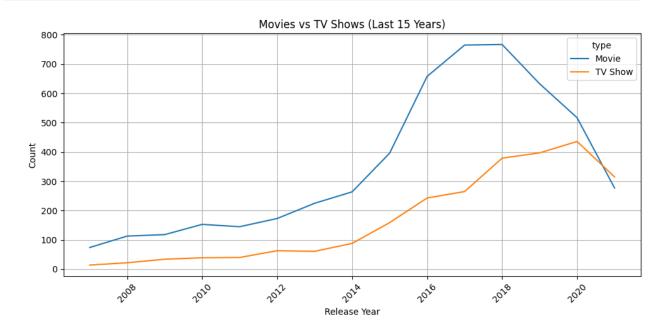
Insight: Netflix has added more movies than TV shows overall. However, if we look at the trend over the years, the number of TV shows being added has been increasing steadily.

**Q2. How has the number of Movies and TV Shows released on Netflix changed over the years? (Bivariate Analysis)

```
df_grouped = df.groupby(['release_year', 'type']).size().unstack()
df_grouped_recent = df_grouped.tail(15)
df_grouped_recent.plot(kind='line', figsize=(10, 5), color=['#1f77b4',
'#ff7f0e'])
plt.title("Movies vs TV Shows (Last 15 Years)")
plt.xlabel("Release Year")
plt.ylabel("Count")
plt.xticks(rotation=45)
plt.grid(True)
plt.tight_layout()
plt.show()

<ipython-input-54-917ee76a4d8c>:1: FutureWarning: The default of
observed=False is deprecated and will be changed to True in a future
version of pandas. Pass observed=False to retain current behavior or
```

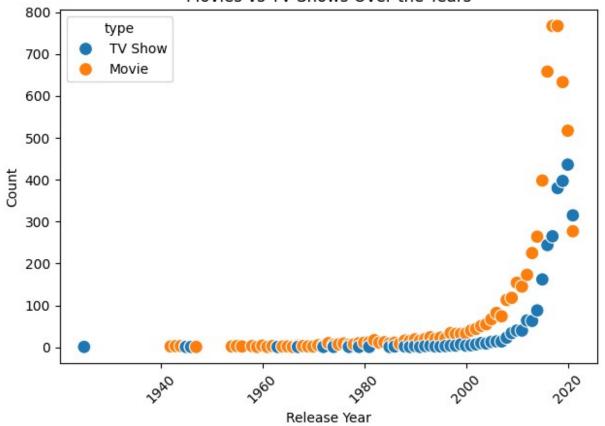
observed=True to adopt the future default and silence this warning.
 df_grouped = df.groupby(['release_year', 'type']).size().unstack()



Insights: Netflix initially focused on movies, but has shifted towards TV show production, especially since 2016 to 2018.

```
df_grouped = df.groupby(['release_year',
    'type']).size().reset_index(name='count')
sns.scatterplot(data=df_grouped, x='release_year', y='count',
hue='type', palette=['#1f77b4', '#ff7f0e'], s=100)
plt.title("Movies vs TV Shows Over the Years")
plt.xlabel("Release Year")
plt.ylabel("Count")
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```





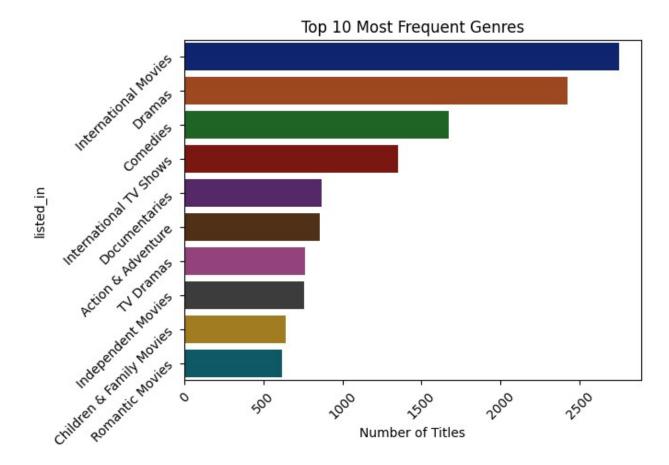
Q3. What are the Most Popular listed_in on Netflix? (Univariate - Categorical)

```
df_exploded_genre = df.assign(genre=df['listed_in'].str.split(',
')).explode('genre')

top_genres = df_exploded_genre['genre'].value_counts().head(10)
sns.barplot(y=top_genres.index, x=top_genres.values, palette='dark')
plt.title("Top 10 Most Frequent Genres")
plt.xlabel("Number of Titles")
plt.xlabel("Number of Titles")
plt.yticks(rotation=45)
plt.yticks(rotation=45)
plt.ylabel("listed_in")
plt.show()

<ipython-input-56-acfb40ea99f6>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effect.
```



Insight: we can see in above chart Drama, International Movies, and Comedies are most common and popular.

4. Which Countries Produce the Most Content on Netflix?

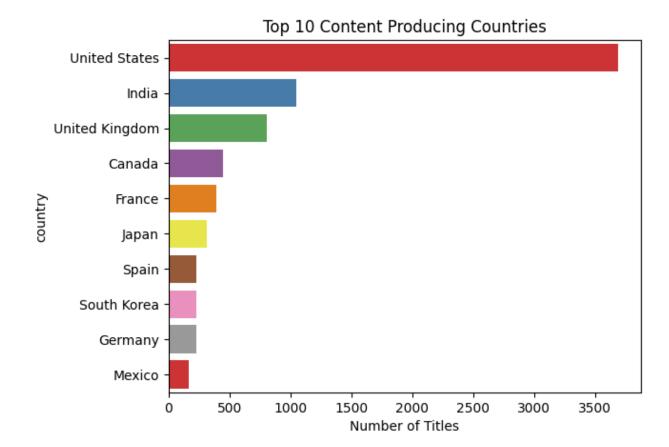
```
df_exploded_country = df.assign(country=df['country'].str.split(',
')).explode('country')

top_countries = df_exploded_country['country'].value_counts().head(10)
sns.barplot(y=top_countries.index, x=top_countries.values,
palette='Set1')
plt.title("Top 10 Content Producing Countries")
plt.xlabel("Number of Titles")
plt.ylabel("country")
plt.show()
```

```
<ipython-input-57-f89f159c4486>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effect.

sns.barplot(y=top_countries.index, x=top_countries.values, palette='Set1')
```

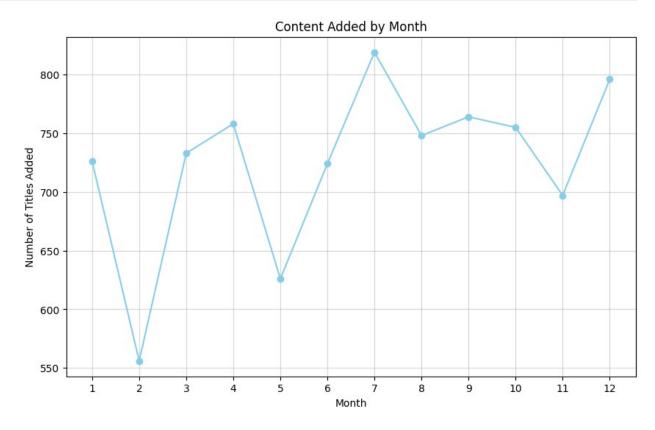


^{**} Insight:** as per Chart and analysis USA, India and UK produced more content on Netflix.

When is the best time to launch content on Netflix?

```
df['month_added'] = df['date_added'].dt.month
month_counts = df['month_added'].value_counts().sort_index()
plt.figure(figsize=(10, 6))
plt.plot(month_counts.index, month_counts.values, marker='o',
linestyle='-', color='skyblue')
```

```
plt.title("Content Added by Month")
plt.xlabel("Month")
plt.ylabel("Number of Titles Added")
plt.xticks(month_counts.index) # Show all months on x-axis
plt.grid(True, alpha=0.5)
plt.show()
```



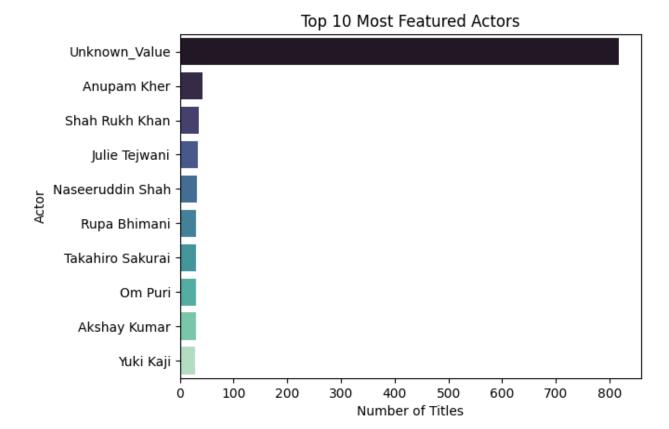
^{**} Insight:** High releases in December, October, and September.**

Who are the most frequently featured actors on Netflix?

```
df_exploded_cast = df.assign(actor=df['cast'].str.split(',
')).explode('actor')

top_actors = df_exploded_cast['actor'].value_counts().head(10)
sns.barplot(y=top_actors.index, x=top_actors.values, palette='mako')
plt.title("Top 10 Most Featured Actors")
plt.xlabel("Number of Titles")
plt.ylabel("Actor")
plt.show()
```

```
<ipython-input-48-1d74befe259b>:2: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effect.
    sns.barplot(y=top_actors.index, x=top_actors.values, palette='mako')
```



^{**} Insight:** Indian and US actors are frequently cast.

What is the distribution of movie durations on Netflix?

```
df_movies = df[df['type'] == 'Movie']

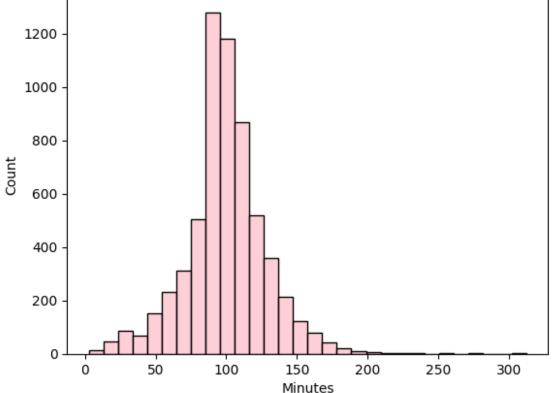
df_movies['minutes'] = df_movies['duration'].str.extract('(\
d+)').astype(int)

<ipython-input-51-d32f7c0cf2ab>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
   df_movies['minutes'] = df_movies['duration'].str.extract('(\
d+)').astype(int)

sns.histplot(df_movies['minutes'], bins=30, color='pink')
plt.title("Distribution of Movie Durations")
plt.xlabel("Minutes")
plt.show()
```

Distribution of Movie Durations



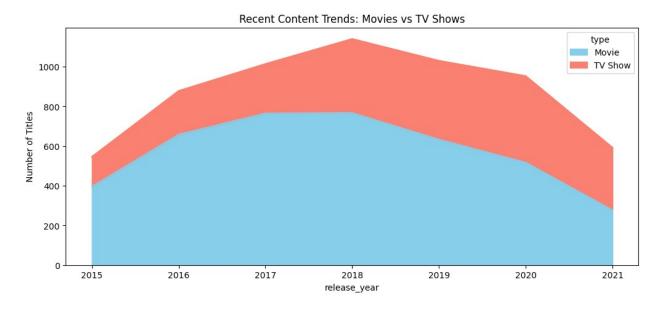
^{**} Insight:** Most movies 80–120 mins. Outliers >200 mins.

Has Netflix shifted its focus towards TV Shows in recent years?

```
recent = df[df['release_year'] >= 2015]
recent_trend = recent.groupby(['release_year',
'type']).size().unstack()
recent_trend.plot(kind='area', figsize=(12,5), color=['skyblue',
```

```
'salmon'])
plt.title("Recent Content Trends: Movies vs TV Shows")
plt.ylabel("Number of Titles")
plt.show()

<ipython-input-59-ee04f122fa4f>:2: FutureWarning: The default of
observed=False is deprecated and will be changed to True in a future
version of pandas. Pass observed=False to retain current behavior or
observed=True to adopt the future default and silence this warning.
    recent_trend = recent.groupby(['release_year',
'type']).size().unstack()
```



** Insight:** TV Shows surge from 2016. Strategy shift.

What is the distribution of content ratings on Netflix? ***

```
!pip install squarify
import squarify

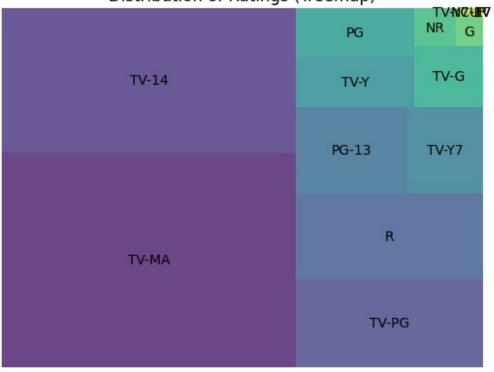
Collecting squarify
  Downloading squarify-0.4.4-py3-none-any.whl.metadata (600 bytes)
Downloading squarify-0.4.4-py3-none-any.whl (4.1 kB)
Installing collected packages: squarify
Successfully installed squarify-0.4.4

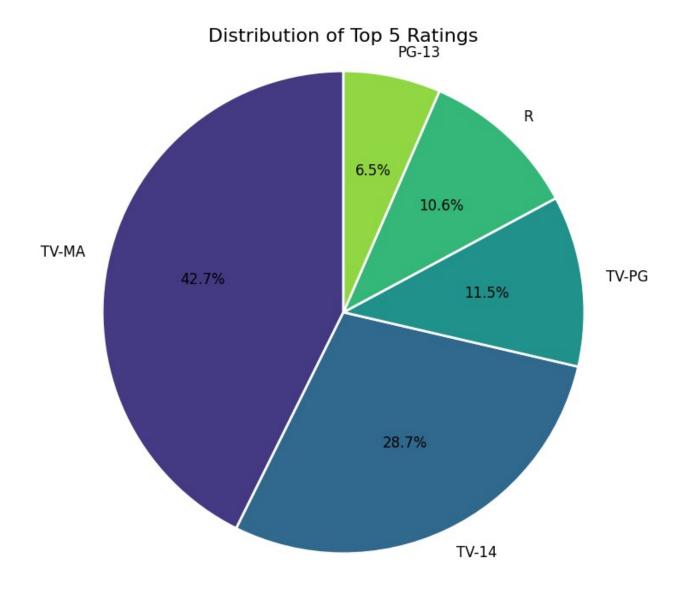
rating_counts = df['rating'].value_counts()
labels = rating_counts.index.tolist()
sizes = rating_counts.values.tolist()

squarify.plot(sizes=sizes, label=labels, alpha=.8,
color=sns.color_palette('viridis', len(labels)))
plt.title("Distribution of Ratings (Treemap)")
```

```
plt.axis('off')
plt.show()
```

Distribution of Ratings (Treemap)





Insight:TV-MA and TV-14 are the most frequent ratings. These ratings target teens and adults. This suggests Netflix's content strategy focuses on these audiences.

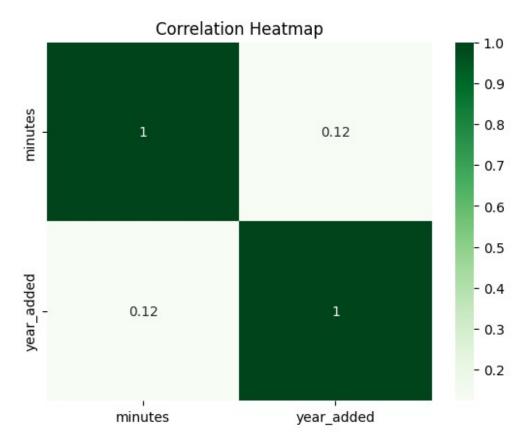
What is the correlation between the duration of movies (in minutes) and the year they were added to Netflix?

```
df_movies = df[df['type'] == 'Movie']

df_movies['year_added'] = df_movies['date_added'].dt.year

<ipython-input-79-144c2ela0b86>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row indexer,col indexer] = value instead
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
  df movies['year added'] = df movies['date added'].dt.year
df movies['minutes'] = df movies['duration'].str.extract(r'(\)
d+)').astype(float)
<ipython-input-86-33618ac21afd>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
  df movies['minutes'] = df movies['duration'].str.extract(r'()
d+)').astype(float)
sns.heatmap(df_movies[['minutes', 'year_added']].corr(), annot=True,
cmap='Greens')
plt.title("Correlation Heatmap")
plt.show()
```



** Insight:** No strong correlation. Feature engineering may be needed.

Director, cast, and country fields had missing values.

Business Insights**

- =>Movies are still the most common, but TV Shows are growing fast and becoming more popular.
- =>Drama and Comedy are the most popular genres worldwide, making them a good choice for future content.
- =>December is a peak month for adding new content—possibly due to holidays and more viewers.
- =>Most content comes from the US, India, and the UK, showing strong production from these countries and chances to grow through local partnerships.
- =>A lot of content is made for adults, which means there's a good opportunity to create more shows and movies for kids.

Recommendations**

- 1. Increase production of TV Shows, especially in drama/comedy listed_in.
- 2. Launch major titles in Q4 (Sept–Dec) to capitalize on viewership peaks.
- 3. Promote actors with proven Netflix presence to attract loyal viewers.