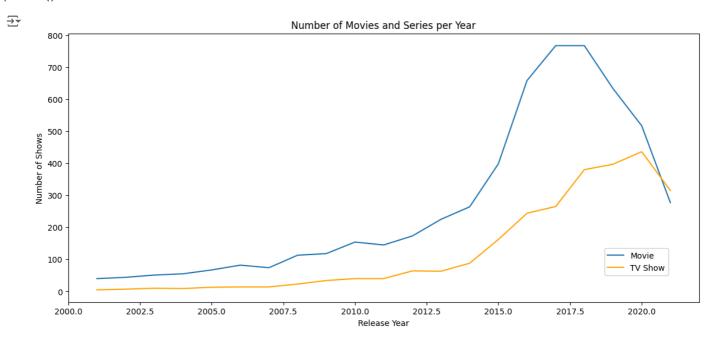
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
! g down "https://d2beiqkhq929f0.cloudfront.net/public\_assets/assets/000/000/940/original/netflix.csv" - 0 netflix.csv (like the context of the context of
         Downloading...
From: <a href="https://d2beiqkhq929f0.cloudfront.net/public_assets/assets/000/000/940/original/netflix.csv">https://d2beiqkhq929f0.cloudfront.net/public_assets/assets/000/000/940/original/netflix.csv</a>
           To: /content/netflix.csv
           100% 3.40M/3.40M [00:08<00:00, 409kB/s]
df=pd.read_csv('netflix.csv')
df.head()
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          4
   Next steps:
                               Generate code with df
                                                                                     View recommended plots
                                                                                                                                                          New interactive sheet
sr\_m=df.loc[(df['release\_year']>2000)\&\ (df['type']=='Movie')].groupby('release\_year')['show\_id'].count()\\
df_m=sr_m.to_frame()
df_m.head()
\overline{\Rightarrow}
                                             show_id
                                                                    release year
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                      2001
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                       2005
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   Next steps:
                             Generate code with df m

    View recommended plots

                                                                                                                                                              New interactive sheet
sr\_t=df.loc[(df['release\_year']>2000)\&(df['type']=='TV Show')].groupby('release\_year')['show\_id'].count()
df_t=sr_t.to_frame()
df_t.head()
\rightarrow
                                                                    丽
                                             show_id
             release_year
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   Next steps:
                               Generate code with df_t
                                                                                          View recommended plots
                                                                                                                                                              New interactive sheet
plt.figure(figsize=(14,6))
sns.lineplot(x='release_year', y='show_id', data=df_m,label='Movie')
sns.lineplot(x='release_year', y='show_id', data=df_t, color='#FFA500', label='TV Show')
```

```
plt.xlabel('Release Year')
plt.ylabel('Number of Shows')
plt.title('Number of Movies and Series per Year')
#plt.xticks(rotation=45)
plt.legend(loc=(0.85,0.1), ncol=1)
plt.show()
```



## df.head()

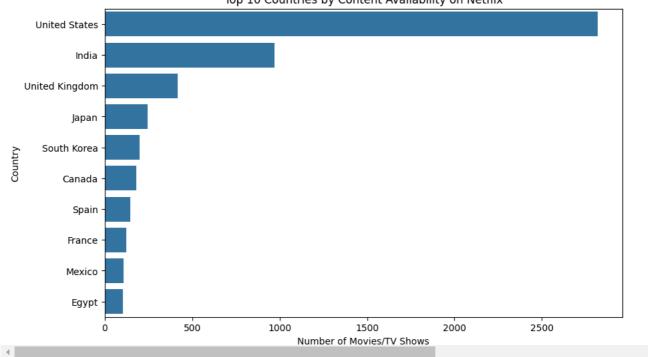
plt.ylabel('Country')

plt.show()

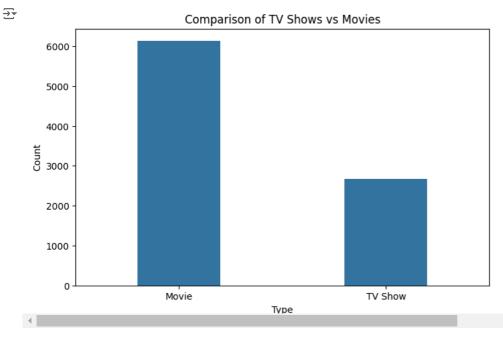
```
\overline{2}
         show_id type
                              title director
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                                                    cast country date_added release_year rating duration
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                               Dick
                                        Kirsten
                                                             United
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              s1 Movie
                         Johnson Is
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                   Show
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                                                                                                                        Crime TV
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              Generate code with df
                                        View recommended plots
                                                                        New interactive sheet
 Next steps:
# Convert 'date added' to datetime format and extract year
df['date_added'] = pd.to_datetime(df['date_added'], format='%B %d, %Y', errors='coerce')
df['year_added'] = df['date_added'].dt.year
country_content = df['country'].value_counts().head(10) # Top 10 countries by content availability
plt.figure(figsize=(10, 6))
sns.barplot(x=country_content.values, y=country_content.index)
plt.title('Top 10 Countries by Content Availability on Netflix')
plt.xlabel('Number of Movies/TV Shows')
```



Top 10 Countries by Content Availability on Netflix



```
type_counts = df['type'].value_counts()
plt.figure(figsize=(8, 5))
sns.barplot(x=type_counts.index, y=type_counts.values,width=0.4)
plt.title('Comparison of TV Shows vs Movies')
plt.xlabel('Type')
plt.ylabel('Count')
plt.show()
```



```
df['month_added'] = df['date_added'].dt.month
tv_shows = df[df['type'] == 'TV Show']
tv_show_launch_months = tv_shows['month_added'].value_counts().sort_index()
plt.figure(figsize=(10, 6))
sns.barplot(x=tv_show_launch_months.index, y=tv_show_launch_months.values, width=0.4)
plt.title('Best Month to Launch a TV Show')
plt.xlabel('Month')
plt.ylabel('Number of TV Shows Launched')
plt.xticks(ticks=np.arange(1, 13), labels=['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec'])
plt.show()
```

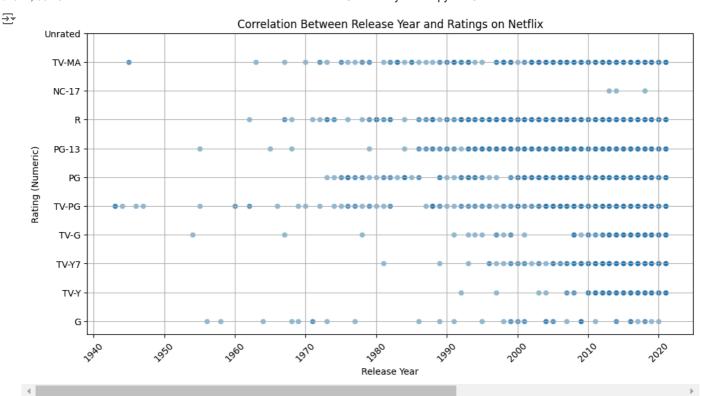
plt.show()

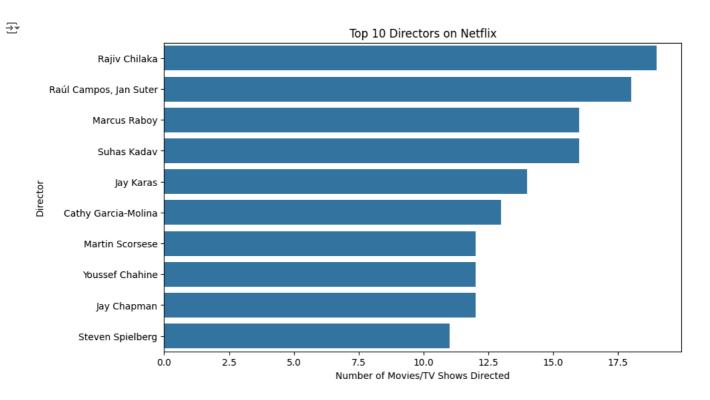


## Best Month to Launch a TV Show

```
250
   200
Number of TV Shows Launched
    150
    100
     50
                                                                       May
                                                                                              Jul
                                                                                                         Aug
                                                                                                                     Sep
                         Jan
                                     Feb
                                                Mar
                                                                                                                                 Oct
                                                                                                                                            Nov
                                                                                                                                                        Dec
                                                            Apr
                                                                                   lun
                                                                              Month
```

```
# Correlation between Release of Movies and their rating
df = df.dropna(subset=['release_year', 'rating'])
df['release_year'] = df['release_year'].astype(int)
rating_mapping = {
    'G': 0,
    'TV-Y': 1,
    'TV-Y7': 2,
    'TV-G': 3,
    'TV-PG': 4,
    'PG': 5,
    'PG-13': 6,
    'R': 7,
'NC-17': 8,
    'TV-MA': 9,
    'Unrated': 10
df['rating_numeric'] = df['rating'].map(rating_mapping)
    <ipython-input-30-549639093986>:3: 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:  \underline{\text{https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html\#returning-a-view-versus} 
       df['release_year'] = df['release_year'].astype(int)
     <ipython-input-30-549639093986>:17: 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: <a href="https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus">https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus</a>
       df['rating_numeric'] = df['rating'].map(rating_mapping)
plt.figure(figsize=(12, 6))
sns.scatterplot(data=df, x='release_year', y='rating_numeric', alpha=0.5)
plt.title('Correlation Between Release Year and Ratings on Netflix')
plt.xlabel('Release Year')
plt.ylabel('Rating (Numeric)')
plt.xticks(rotation=45)
plt.yticks(list(rating_mapping.values()), list(rating_mapping.keys()))
plt.grid(True)
```



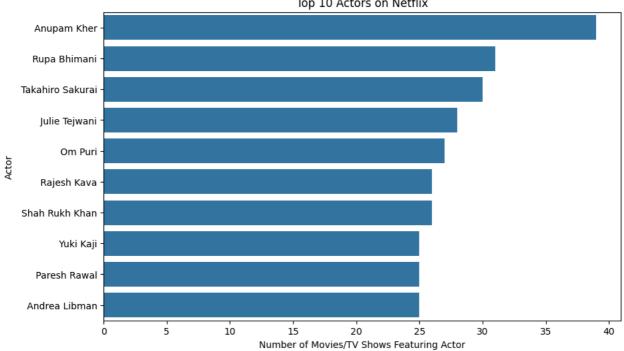


plt.figure(figsize=(10, 6))
sns.barplot(x=top\_actors.values, y=top\_actors.index)

```
plt.title('Top 10 Actors on Netflix')
plt.xlabel('Number of Movies/TV Shows Featuring Actor')
plt.ylabel('Actor')
plt.show()
```



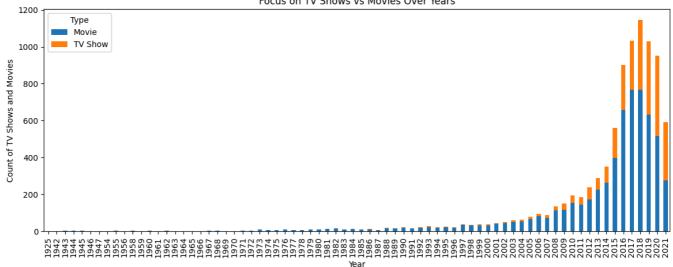
Top 10 Actors on Netflix



```
recent_focus = df.groupby(['release_year', 'type']).size().unstack(fill_value=0)
recent_focus.plot(kind='bar', stacked=True, figsize=(14, 5))
plt.title('Focus on TV Shows vs Movies Over Years')
plt.xlabel('Year')
plt.ylabel('Count of TV Shows and Movies')
plt.legend(title='Type')
plt.show()
```



## Focus on TV Shows vs Movies Over Years



Start coding or generate with AI.