https://drive.google.com/file/d/1aLKi5P0Nw_poxOcH_wPn5XqMO2KK8uh1/view?usp=share_link

In [1]:
```
!gdown 1aLKi5P0Nw_poxOcH_wPn5XqMO2KK8uh1
```

```
Downloading...
From: https://drive.google.com/uc?id=1aLKi5P0Nw_poxOcH_wPn5XqMO2KK8uh1
To: C:\Users\91944\netflix.csv

  0%|            | 0.00/3.40M [00:00<?, ?B/s]
 15%|#5          | 524k/3.40M [00:00<00:00, 3.43MB/s]
 62%|######1     | 2.10M/3.40M [00:00<00:00, 8.96MB/s]
100%|##########| 3.40M/3.40M [00:00<00:00, 9.73MB/s]
```

In [2]:
```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings("ignore")
nf=pd.read_csv("netflix.csv")
```

In [3]:
```
nf
```

Out[3]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	d
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	S
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	September 24, 2021	2021	TV-MA	1
3	s4	TV Show	Jailbirds New Orleans	NaN	NaN	NaN	September 24, 2021	2021	TV-MA	1
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	S
...	...	...	...	...	...	...	...	...	...	
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	November 20, 2019	2007	R	1
8803	s8804	TV Show	Zombie Dumb	NaN	NaN	NaN	July 1, 2019	2018	TV-Y7	S
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	2009	R	

	show_id	type	title	director	cast	country	date_added	release_year	rating	d
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	2006	PG	
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	2015	TV-14	

2) Observations on the shape of data, data types of all the attributes, conversion of categorical attributes to 'category' (If required), missing value detection, statistical summary

In [ ]:
```
shape of data
```

In [69]:
```
nf.shape
```

Out[69]:
```
(8807, 12)
```

count of NULL values

In [7]:
```
nf.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
 1   type          8807 non-null   object
 2   title         8807 non-null   object
 3   director      6173 non-null   object
 4   cast          7982 non-null   object
 5   country       7976 non-null   object
 6   date_added    8797 non-null   object
 7   release_year  8807 non-null   int64
 8   rating        8803 non-null   object
 9   duration      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
```

There are number of null values in director,cast & country field which need to eliminated

In [42]:
```
nf.isna().sum()
```

```
Out[42]:  show_id              0
          type                 0
          title                0
          director          2634
          cast               825
          country            831
          date_added          10
          release_year         0
          rating               4
          duration             3
          listed_in            0
          description          0
          dtype: int64
```

there are around 2634 nulls in director ,825 nulls in cast field ,831 nulls in country field,10 nulls in date_added fields& 4 in ratings and 3 in duration fields.

```
In [93]:  nf.duplicated().sum()# duplicate rows check
```

```
Out[93]:  0
```

Data types of all the attributes

```
In [116…  nf.dtypes
```

```
Out[116]:  show_id                    Int64
           type                      object
           title                     object
           director                  object
           cast                      object
           country                   object
           date_added        datetime64[ns]
           release_year               int64
           rating                    object
           duration                  object
           listed_in                 object
           description               object
           date_month                object
           date_year                  Int64
           duration_value             Int64
           duration_unit             object
           dtype: object
```

Handling null values/missing values

```
In [50]:  nf['rating'].unique() # in ratings column there are 3 rows having duration which is mi
```

```
Out[50]:  array(['PG-13', 'TV-MA', 'PG', 'TV-14', 'TV-PG', 'TV-Y', 'TV-Y7', 'R',
                 'TV-G', 'G', 'NC-17', '74 min', '84 min', '66 min', 'NR', nan,
                 'TV-Y7-FV', 'UR'], dtype=object)
```

```
In [48]:  nf[nf["rating"].isna()]["rating"] # select rows with null values
```

```
Out[48]:  5989    NaN
          6827    NaN
          7312    NaN
          7537    NaN
          Name: rating, dtype: object
```

```
In [49]:  nf.loc[[5989,6827,7312,7537]] # rows having NAN rating
```

Out[49]:

	show_id	type	title	director	cast	country	date_added	release_year	rating
5989	s5990	Movie	13TH: A Conversation with Oprah Winfrey & Ava ...	NaN	Oprah Winfrey, Ava DuVernay	NaN	January 26, 2017	2017	NaN
6827	s6828	TV Show	Gargantia on the Verdurous Planet	NaN	Kaito Ishikawa, Hisako Kanemoto, Ai Kayano, Ka...	Japan	December 1, 2016	2013	NaN
7312	s7313	TV Show	Little Lunch	NaN	Flynn Curry, Olivia Deeble, Madison Lu, Oisín ...	Australia	February 1, 2018	2015	NaN
7537	s7538	Movie	My Honor Was Loyalty	Alessandro Pepe	Leone Frisa, Paolo Vaccarino, Francesco Miglio...	Italy	March 1, 2017	2015	NaN

```
In [4]:  nf.loc[nf['rating'].isna(),'rating']=['TV-PG','TV-14','PG','TV-MA']
```

```
In [5]:  nf.dropna(subset=["date_added"],inplace=True)
```

```
In [6]:  nf.director.fillna('director NA',inplace=True)
         nf.cast.fillna('cast NA',inplace=True)
         nf.country.fillna('country NA',inplace=True)
```

```
In [7]:  nf["date_added"]=pd.to_datetime(nf["date_added"])
         nf["date_month"]=nf["date_added"].dt.month_name()
         nf["date"]=nf["date_added"].dt.day
         nf["date_year"]=nf["date_added"].dt.year
         nf["date_year"]=nf["date_added"].dt.year.astype("Int64")
         nf
```

Out[7]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	d
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	cast NA	United States	2021-09-25	2020	PG-13	
1	s2	TV Show	Blood & Water	director NA	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban…	South Africa	2021-09-24	2021	TV-MA	S
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi…	country NA	2021-09-24	2021	TV-MA	1
3	s4	TV Show	Jailbirds New Orleans	director NA	cast NA	country NA	2021-09-24	2021	TV-MA	1
4	s5	TV Show	Kota Factory	director NA	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K…	India	2021-09-24	2021	TV-MA	S
...	...	...	...	...	...	...	...	...	...	
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J…	United States	2019-11-20	2007	R	1
8803	s8804	TV Show	Zombie Dumb	director NA	cast NA	country NA	2019-07-01	2018	TV-Y7	S
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, …	United States	2019-11-01	2009	R	

	show_id	type	title	director	cast	country	date_added	release_year	rating	du
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	2020-01-11	2006	PG	
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	2019-03-02	2015	TV-14	

1. Non-Graphical Analysis: Value counts and unique attributes

```
In [118...   f=pd.DataFrame(nf.groupby(by=["date_year","date_month"])["title"].nunique()).sort_valu
             f
```

Out[118]:

	date_year	date_month	title
0	2021	July	257
1	2019	November	255
2	2019	December	215
3	2021	June	207
4	2020	January	205
...	...	...	...
103	2013	March	1
104	2015	January	1
105	2014	August	1
106	2014	July	1
107	2008	February	1

108 rows × 3 columns

```
In [90]:   nf['rating'].unique()
```

```
Out[90]:   array(['PG-13', 'TV-MA', 'PG', 'TV-14', 'TV-PG', 'TV-Y', 'TV-Y7', 'R',
                  'TV-G', 'G', 'NC-17', '74 min', '84 min', '66 min', 'NR',
                  'TV-Y7-FV', 'UR'], dtype=object)
```

```
In [8]:   nf.loc[nf['rating']=='74 min','rating'] = 'TV-MA'
          nf.loc[nf['rating']=='84 min','rating']='NR'
          nf.loc[nf['rating']=='66 min','rating']= 'NR'
```

In [92]:
```python
nf.isna().sum()
```

Out[92]:
```
show_id        0
type           0
title          0
director       0
cast           0
country        0
date_added     0
release_year   0
rating         0
duration       0
listed_in      0
description    0
date_month     0
date           0
date_year      0
dtype: int64
```

In [116...
```python
nf.loc[nf['type']=='TV-MA']
```

Out[116]:

show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in

In [97]:
```python
nf.loc[[5989,6827,7312,7537]]
```

Out[97]:

	show_id	type	title	director	cast	country	date_added	release_year	rating
5989	s5990	Movie	13TH: A Conversation with Oprah Winfrey & Ava ...	director NA	Oprah Winfrey, Ava DuVernay	country NA	2017-01-26 00:00:00	2017	TV-PG
6827	s6828	TV Show	Gargantia on the Verdurous Planet	director NA	Kaito Ishikawa, Hisako Kanemoto, Ai Kayano, Ka...	Japan	2016-12-01 00:00:00	2013	TV-14
7312	s7313	TV Show	Little Lunch	director NA	Flynn Curry, Olivia Deeble, Madison Lu, Oisín ...	Australia	2018-02-01 00:00:00	2015	PG
7537	s7538	Movie	My Honor Was Loyalty	Alessandro Pepe	Leone Frisa, Paolo Vaccarino, Francesco Miglio...	Italy	2017-03-01 00:00:00	2015	TV-MA

In [117...
```python
nf.type.value_counts()# count of type of shows
```

Out[117]:
```
Movie      6131
TV Show    2666
Name: type, dtype: int64
```

In [118…]:
```
nf.release_year.value_counts()
```

Out[118]:
```
2018    1146
2017    1032
2019    1030
2020     953
2016     901
        ...
1959       1
1925       1
1961       1
1947       1
1966       1
Name: release_year, Length: 74, dtype: int64
```

Count of release years is highest in 2018.

In [63]:
```
nf.date_year.value_counts()
```

Out[63]:
```
2019    2016
2020    1879
2018    1649
2021    1498
2017    1188
2016     429
2015      82
2014      24
2011      13
2013      11
2012       3
2009       2
2008       2
2010       1
Name: date_year, dtype: Int64
```

Whereas , count of movies/Shows that was added to Netflix is more in 2019. Thus it has taken a year or more for those to be added in Netflix which majorly affects the growth.

No of movies added to Netflix is more in 2019,2020 and 2018.

In [64]:
```
nf.date_month.value_counts()
```

Out[64]:
```
July          827
December      813
September     770
April         764
October       760
August        755
March         742
January       738
June          728
November      705
May           632
February      563
Name: date_month, dtype: int64
```

July has the highest no of releases in Netflix PLATFORM where both movies& TV Shows are included.

In [122...
```python
nf.rating.value_counts()
```

Out[122]:
```
TV-MA         3207
TV-14         2158
TV-PG          862
R              799
PG-13          490
TV-Y7          333
TV-Y           306
PG             288
TV-G           220
NR              81
G               41
TV-Y7-FV         6
NC-17            3
UR               3
Name: rating, dtype: int64
```

In [90]:
```python
nf["duration"].unique()
```

Out[90]:
```
array(['90 min', '2 Seasons', '1 Season', '91 min', '125 min',
       '9 Seasons', '104 min', '127 min', '4 Seasons', '67 min', '94 min',
       '5 Seasons', '161 min', '61 min', '166 min', '147 min', '103 min',
       '97 min', '106 min', '111 min', '3 Seasons', '110 min', '105 min',
       '96 min', '124 min', '116 min', '98 min', '23 min', '115 min',
       '122 min', '99 min', '88 min', '100 min', '6 Seasons', '102 min',
       '93 min', '95 min', '85 min', '83 min', '113 min', '13 min',
       '182 min', '48 min', '145 min', '87 min', '92 min', '80 min',
       '117 min', '128 min', '119 min', '143 min', '114 min', '118 min',
       '108 min', '63 min', '121 min', '142 min', '154 min', '120 min',
       '82 min', '109 min', '101 min', '86 min', '229 min', '76 min',
       '89 min', '156 min', '112 min', '107 min', '129 min', '135 min',
       '136 min', '165 min', '150 min', '133 min', '70 min', '84 min',
       '140 min', '78 min', '7 Seasons', '64 min', '59 min', '139 min',
       '69 min', '148 min', '189 min', '141 min', '130 min', '138 min',
       '81 min', '132 min', '10 Seasons', '123 min', '65 min', '68 min',
       '66 min', '62 min', '74 min', '131 min', '39 min', '46 min',
       '38 min', '8 Seasons', '17 Seasons', '126 min', '155 min',
       '159 min', '137 min', '12 min', '273 min', '36 min', '34 min',
       '77 min', '60 min', '49 min', '58 min', '72 min', '204 min',
       '212 min', '25 min', '73 min', '29 min', '47 min', '32 min',
       '35 min', '71 min', '149 min', '33 min', '15 min', '54 min',
       '224 min', '162 min', '37 min', '75 min', '79 min', '55 min',
       '158 min', '164 min', '173 min', '181 min', '185 min', '21 min',
       '24 min', '51 min', '151 min', '42 min', '22 min', '134 min',
       '177 min', '13 Seasons', '52 min', '14 min', '53 min', '8 min',
       '57 min', '28 min', '50 min', '9 min', '26 min', '45 min',
       '171 min', '27 min', '44 min', '146 min', '20 min', '157 min',
       '17 min', '203 min', '41 min', '30 min', '194 min', '15 Seasons',
       '233 min', '237 min', '230 min', '195 min', '253 min', '152 min',
       '190 min', '160 min', '208 min', '180 min', '144 min', '5 min',
       '174 min', '170 min', '192 min', '209 min', '187 min', '172 min',
       '16 min', '186 min', '11 min', '193 min', '176 min', '56 min',
       '169 min', '40 min', '10 min', '3 min', '168 min', '312 min',
       '153 min', '214 min', '31 min', '163 min', '19 min', '12 Seasons',
       '179 min', '11 Seasons', '43 min', '200 min', '196 min', '167 min',
       '178 min', '228 min', '18 min', '205 min', '201 min', '191 min'],
      dtype=object)
```

In [120…]:
```python
nf["rating"].isna().count()
```

Out[120]: 8797

In [3]:
```python
plt.figure(figsize=(10,4))
plt.pie(nf.type.value_counts(),labels=nf.type.value_counts().index,autopct='%1.0f%%')
plt.title('Percentage of movies vs TV show')
plt.show()
```

Percentage of movies vs TV show
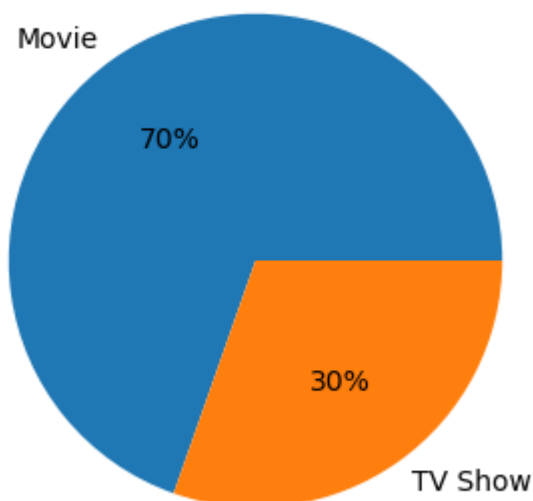
70 % are movies released in Netflix platform whereas only 30 % is TV Shows .so more than half of them are movies ,more movies must be produced to grow business.

```
In [105...
movies_nf=nf[nf['type']=='Movie']
TVShows_nf=nf[nf['type']=='TV Show']

movies_year = movies_nf.date_year.value_counts().to_frame().reset_index()
TVShows_year=TVShows_nf.date_year.value_counts().to_frame().reset_index()

total_year=nf.date_year.value_counts().to_frame().reset_index()

movies_year.rename(columns={"index":"year","date_year":"count"},inplace=True)

TVShows_year.rename(columns={"index":"year","date_year":"count"},inplace=True)
total_year.rename(columns={"index":"year","date_year":"count"},inplace=True)
#total_year
TVShows_year
```

Out[105]:

	year	count
0	2020	595
1	2019	592
2	2021	505
3	2018	412
4	2017	349
5	2016	176
6	2015	26
7	2014	5
8	2013	5
9	2008	1

In [113...

```
movies_year
```

Out[113]:

	year	count
0	2019	1424
1	2020	1284
2	2018	1237
3	2021	993
4	2017	839
5	2016	253
6	2015	56
7	2014	19
8	2011	13
9	2013	6
10	2012	3
11	2009	2
12	2008	1
13	2010	1

How has the number of movies released per year changed over the last 20-30 years?

In [33]:
```python
fig,ax=plt.subplots(figsize=(20,10))

plt.plot(total_year.year.values,total_year["count"])
plt.plot(movies_year.year.values,movies_year["count"])
plt.plot(TVShows_year.year.values,TVShows_year["count"])

#xticks_plot=np.arange(1991,2021)
```

```
#xtick_labels=np.arange(1991,2021,1)
ax.set_xticks(np.arange(1991,2021,1))
#ax.set_xticklabels(xticks_label)
#ax.set_xticks(np.arange(1991, 2023, 1))
#plt.xticklabels(np.arange(1991, 2021,1))# finding range of years to compare
#plt.xticks(xticks_plot,xtick_labels)
#plt.gca().set_xticklabels(xtick_labels)

plt.legend(['total','movies','TV Shows'])
plt.xlabel('years')
plt.ylabel('counts')
plt.title('Counts of Movies or TV Shows released per year')
plt.show()
```
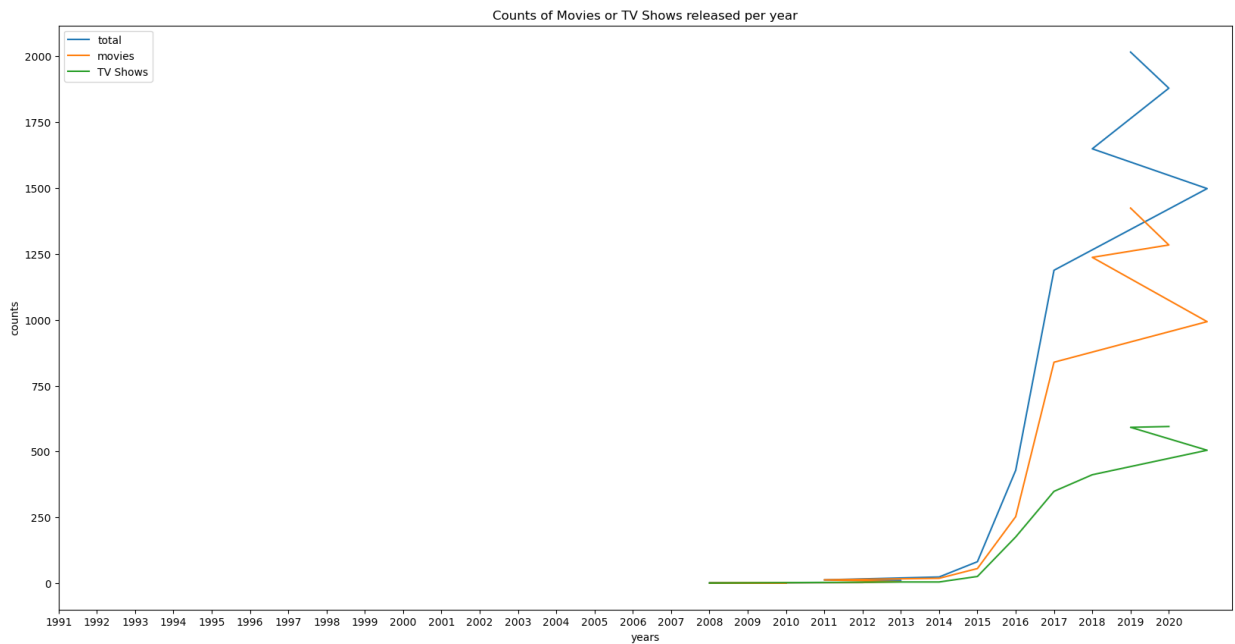

From the above graph which compares no of releases per year of movies ,TV Shows and total(movies + TV Shows), it is observed that after 2014 slowly the pace of release has drastically increased in movies as well as tv shows but Movies leading.

In [131...   `nf['release_year'].max()`

Out[131]:   2021

In [132...   `nf['release_year'].min()`

Out[132]:   1925

Unnesting of the data

In [9]:
```
#title vs cast

constraint=nf["cast"].apply(lambda x : str(x).split(',')).tolist()
df_new1=pd.DataFrame(constraint,index=nf["title"])
df_new1=df_new1.stack()
df_new1=pd.DataFrame(df_new1)
df_new1.reset_index(inplace=True)
```

```
df_new1=df_new1[['title',0]]
df_new1.columns=['title','cast']
df_new1
```

Out[9]:

	title	cast
0	Dick Johnson Is Dead	cast NA
1	Blood & Water	Ama Qamata
2	Blood & Water	Khosi Ngema
3	Blood & Water	Gail Mabalane
4	Blood & Water	Thabang Molaba
...	...	...
64877	Zubaan	Manish Chaudhary
64878	Zubaan	Meghna Malik
64879	Zubaan	Malkeet Rauni
64880	Zubaan	Anita Shabdish
64881	Zubaan	Chittaranjan Tripathy

64882 rows × 2 columns

In [10]:
```
#title vs director

constraint=nf["director"].apply(lambda x : str(x).split(',')).tolist()
df_new2=pd.DataFrame(constraint,index=nf["title"])
df_new2=df_new2.stack()
df_new2=pd.DataFrame(df_new2)
df_new2.reset_index(inplace=True)
df_new2=df_new2[['title',0]]
df_new2.columns=['title','director']
df_new2
```

Out[10]:

	title	director
0	Dick Johnson Is Dead	Kirsten Johnson
1	Blood & Water	director NA
2	Ganglands	Julien Leclercq
3	Jailbirds New Orleans	director NA
4	Kota Factory	director NA
...	...	...
9597	Zodiac	David Fincher
9598	Zombie Dumb	director NA
9599	Zombieland	Ruben Fleischer
9600	Zoom	Peter Hewitt
9601	Zubaan	Mozez Singh

9602 rows × 2 columns

In [11]:
```python
#title vs country

constraint=nf["country"].apply(lambda x : str(x).split(',')).tolist()
df_new3=pd.DataFrame(constraint,index=nf["title"])
df_new3=df_new3.stack()
df_new3=pd.DataFrame(df_new3)
df_new3.reset_index(inplace=True)
df_new3=df_new3[['title',0]]
df_new3.columns=['title','country']
df_new3
```

Out[11]:

	title	country
0	Dick Johnson Is Dead	United States
1	Blood & Water	South Africa
2	Ganglands	country NA
3	Jailbirds New Orleans	country NA
4	Kota Factory	India
...	...	...
10835	Zodiac	United States
10836	Zombie Dumb	country NA
10837	Zombieland	United States
10838	Zoom	United States
10839	Zubaan	India

10840 rows × 2 columns

In [12]:
```python
#title vs listed_in

constraint=nf["listed_in"].apply(lambda x : str(x).split(',')).tolist()
df_new4=pd.DataFrame(constraint,index=nf["title"])
df_new4=df_new4.stack()
df_new4=pd.DataFrame(df_new4)
df_new4.reset_index(inplace=True)
df_new4=df_new4[['title',0]]
df_new4.columns=['title','listed_in']
df_new4
```

Out[12]:

	title	listed_in
0	Dick Johnson Is Dead	Documentaries
1	Blood & Water	International TV Shows
2	Blood & Water	TV Dramas
3	Blood & Water	TV Mysteries
4	Ganglands	Crime TV Shows
...	...	...
19298	Zoom	Children & Family Movies
19299	Zoom	Comedies
19300	Zubaan	Dramas
19301	Zubaan	International Movies
19302	Zubaan	Music & Musicals

19303 rows × 2 columns

In [13]:
```python
dfa=pd.merge(df_new1,df_new2,on='title',how='inner')
dfa
```

Out[13]:

	title	cast	director
0	Dick Johnson Is Dead	cast NA	Kirsten Johnson
1	Blood & Water	Ama Qamata	director NA
2	Blood & Water	Khosi Ngema	director NA
3	Blood & Water	Gail Mabalane	director NA
4	Blood & Water	Thabang Molaba	director NA
...	...	...	...
70738	Zubaan	Manish Chaudhary	Mozez Singh
70739	Zubaan	Meghna Malik	Mozez Singh
70740	Zubaan	Malkeet Rauni	Mozez Singh
70741	Zubaan	Anita Shabdish	Mozez Singh
70742	Zubaan	Chittaranjan Tripathy	Mozez Singh

70743 rows × 3 columns

In [14]:
```python
dfb=pd.merge(df_new3,df_new4,on='title',how='inner')
dfb
```

Out[14]:

	title	country	listed_in
0	Dick Johnson Is Dead	United States	Documentaries
1	Blood & Water	South Africa	International TV Shows
2	Blood & Water	South Africa	TV Dramas
3	Blood & Water	South Africa	TV Mysteries
4	Ganglands	country NA	Crime TV Shows
...	...	...	...
23739	Zoom	United States	Children & Family Movies
23740	Zoom	United States	Comedies
23741	Zubaan	India	Dramas
23742	Zubaan	India	International Movies
23743	Zubaan	India	Music & Musicals

23744 rows × 3 columns

In [27]:
```python
df_final=pd.merge(dfa,dfb,on='title',how='inner')
df_final
```

Out[27]:

	title	cast	director	country	listed_in
0	Dick Johnson Is Dead	cast NA	Kirsten Johnson	United States	Documentaries
1	Blood & Water	Ama Qamata	director NA	South Africa	International TV Shows
2	Blood & Water	Ama Qamata	director NA	South Africa	TV Dramas
3	Blood & Water	Ama Qamata	director NA	South Africa	TV Mysteries
4	Blood & Water	Khosi Ngema	director NA	South Africa	International TV Shows
...	...	...	...	...	...
201902	Zubaan	Anita Shabdish	Mozez Singh	India	International Movies
201903	Zubaan	Anita Shabdish	Mozez Singh	India	Music & Musicals
201904	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Dramas
201905	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	International Movies
201906	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Music & Musicals

201907 rows × 5 columns

In [45]:
```python
nf_final=nf[["title","release_year","type","duration"]]
df=pd.merge(df_final,nf_final,on='title',how='inner')
df["release_year"].astype('Int64')
df["duration"] = df["duration"].str.split().str[0]
df["duration"]=df["duration"].astype('Int64')
df
```

Out[45]:

	title	cast	director	country	listed_in	release_year	type	duration
0	Dick Johnson Is Dead	cast NA	Kirsten Johnson	United States	Documentaries	2020	Movie	90
1	Blood & Water	Ama Qamata	director NA	South Africa	International TV Shows	2021	TV Show	2
2	Blood & Water	Ama Qamata	director NA	South Africa	TV Dramas	2021	TV Show	2
3	Blood & Water	Ama Qamata	director NA	South Africa	TV Mysteries	2021	TV Show	2
4	Blood & Water	Khosi Ngema	director NA	South Africa	International TV Shows	2021	TV Show	2
...	...	...	...	...	...	...	...	...
201902	Zubaan	Anita Shabdish	Mozez Singh	India	International Movies	2015	Movie	111
201903	Zubaan	Anita Shabdish	Mozez Singh	India	Music & Musicals	2015	Movie	111
201904	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Dramas	2015	Movie	111
201905	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	International Movies	2015	Movie	111
201906	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Music & Musicals	2015	Movie	111

201907 rows × 8 columns

Average runtime of most popular actor

In [65]:
```python
df[df["cast"]=="Anupam Kher"].groupby(by=["cast","type"]).agg({"duration":"mean"})
```

Out[65]:

		duration
cast	type	
Anupam Kher	Movie	121.090909

In [61]:
```python
runtime=df.groupby(by=["cast"]).agg({"duration":"mean"}).reset_index().sort_values("du
runtime
```

Out[61]:

	cast	duration
35442	Fionn Whitehead	312.0
10750	Ginger Daniels	273.0
9586	Evelyn Lewis Prieto	273.0
25954	Rhiannon Mcgavin	273.0
16190	Kate Seftel	273.0
...	...	...
6248	Claudia Christian	1.0
21622	Miles Jupp	1.0
6253	Claudia Geisler-Bading	1.0
31951	Varot Makaduangkeo	1.0
36903	Louis C.K.	<NA>

39261 rows × 2 columns

In [17]:
```python
nf["cast"].unique
```

Out[17]:
```
<bound method Series.unique of 0                                          cast
NA
1       Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...
2       Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...
3                                               cast NA
4       Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...
                              ...
8802    Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...
8803                                            cast NA
8804    Jesse Eisenberg, Woody Harrelson, Emma Stone, ...
8805    Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...
8806    Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...
Name: cast, Length: 8797, dtype: object>
```

In [48]:
```python
df[df["cast"]=="Anupam Kher"].agg({"duration":"mean"})
df
```

Out[48]:

	title	cast	director	country	listed_in	release_year	type	duration
0	Dick Johnson Is Dead	cast NA	Kirsten Johnson	United States	Documentaries	2020	Movie	90
1	Blood & Water	Ama Qamata	director NA	South Africa	International TV Shows	2021	TV Show	2
2	Blood & Water	Ama Qamata	director NA	South Africa	TV Dramas	2021	TV Show	2
3	Blood & Water	Ama Qamata	director NA	South Africa	TV Mysteries	2021	TV Show	2
4	Blood & Water	Khosi Ngema	director NA	South Africa	International TV Shows	2021	TV Show	2
...	...	...	...	...	...	...	...	...
201902	Zubaan	Anita Shabdish	Mozez Singh	India	International Movies	2015	Movie	111
201903	Zubaan	Anita Shabdish	Mozez Singh	India	Music & Musicals	2015	Movie	111
201904	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Dramas	2015	Movie	111
201905	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	International Movies	2015	Movie	111
201906	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Music & Musicals	2015	Movie	111

201907 rows × 8 columns

In [73]:
```python
df["country"].nunique()
```

Out[73]: 198

In [85]:
```python
#type of content available in different countries

k=pd.DataFrame(df.groupby(by=["country"])["listed_in"].unique()).reset_index()
k
```

Out[85]:

	country	listed_in
0		[International TV Shows, TV Dramas, Dramas, ...
1	Afghanistan	[Documentaries, International Movies]
2	Albania	[Dramas, International Movies]
3	Algeria	[Dramas, Independent Movies, International M...
4	Angola	[Action & Adventure, International Movies]
...	...	...
193	Venezuela	[Documentaries, International Movies]
194	Vietnam	[Dramas, International Movies, Romantic Movi...
195	West Germany	[Documentaries, International Movies]
196	Zimbabwe	[Comedies, International Movies, Romantic Mo...
197	country NA	[Crime TV Shows, International TV Shows, TV ...

198 rows × 2 columns

In [89]:
```python
pd.set_option('max_colwidth', None)
k[k["country"] == "United States"]
```

Out[89]:

	country	listed_in
191	United States	[Documentaries, Dramas, Independent Movies, International Movies, Comedies, Dramas, TV Comedies, TV Dramas, Horror Movies, Sci-Fi & Fantasy, Thrillers, Kids' TV, TV Sci-Fi & Fantasy, Action & Adventure, Classic Movies, Horror Movies, Thrillers, Reality TV, TV Comedies, Crime TV Shows, Music & Musicals, Sports Movies, Children & Family Movies, TV Action & Adventure, Comedies, Cult Movies, Romantic Movies, Classic Movies, Children & Family Movies, Faith & Spirituality, LGBTQ Movies, TV Dramas, TV Mysteries, TV Horror, Anime Features, Movies, Docuseries, Stand-Up Comedy, TV Action & Adventure, Teen TV Shows, Classic & Cult TV, Docuseries, Science & Nature TV, Romantic TV Shows, Anime Series, TV Thrillers, Stand-Up Comedy & Talk Shows, Romantic TV Shows, TV Shows, Cult Movies, Independent Movies, Reality TV, International TV Shows, Spanish-Language TV Shows, International TV Shows, TV Horror, Spanish-Language TV Shows, British TV Shows, Kids' TV, Documentaries, Music & Musicals, Korean TV Shows, Stand-Up Comedy & Talk Shows, Stand-Up Comedy, Crime TV Shows, Anime Features, Sci-Fi & Fantasy, Romantic Movies]

Above data shows about what kind of shows or movies prefered by different countries and for example United States people prefer Documentaries, Dramas, Independent Movies etc.

In [97]:
```python
#type of movies to produce
df.groupby("listed_in")["title"].nunique().sort_values(ascending=False)
```

Out[97]:
```
listed_in
 International Movies       2624
Dramas                     1600
Comedies                   1210
Action & Adventure          859
Documentaries               829
                           ...
Romantic Movies               3
Spanish-Language TV Shows     2
Sports Movies                 1
TV Sci-Fi & Fantasy           1
LGBTQ Movies                  1
Name: title, Length: 73, dtype: int64
```

In [123...
```python
#Popular director in Netflix
df.groupby(by=["director"])["title"].nunique().sort_values(ascending=False)
```

Out[123]:
```
director
director NA             2624
Rajiv Chilaka            22
 Jan Suter               18
Raúl Campos              18
Suhas Kadav              16
                        ...
J. Lee Thompson           1
J. Michael Long           1
 Songyos Sugmakanan       1
 Smriti Keshari           1
Joaquín Mazón             1
Name: title, Length: 5121, dtype: int64
```

Rajiv Chilaka is the leading director who has produced 22
followed by Jan Suter with 18 movies.

In [126...
```python
df.loc[df["director"]=="Rajiv Chilaka"]["title"].unique()
```

Out[126]:
```
array(['Chhota Bheem - Neeli Pahaadi', 'Chhota Bheem & Ganesh',
       'Chhota Bheem & Krishna: Mayanagari',
       'Chhota Bheem & Krishna: Pataliputra- City of the Dead',
       'Chhota Bheem And The Broken Amulet',
       'Chhota Bheem And The Crown of Valhalla',
       'Chhota Bheem and the Incan Adventure',
       'Chhota Bheem and The ShiNobi Secret', 'Chhota Bheem Aur Hanuman',
       'Chhota Bheem aur Krishna', 'Chhota Bheem aur Krishna vs Zimbara',
       'Chhota Bheem: Bheem vs Aliens',
       'Chhota Bheem: Dholakpur to Kathmandu', 'Chhota Bheem: Dus Pe Dus',
       'Chhota Bheem: Journey to Petra',
       'Chhota Bheem: Master of Shaolin',
       'Chhota Bheem: The Rise of Kirmada',
       'Chhota Bheem and the Curse of Damyaan', 'Mighty Raju Rio Calling',
       'Bheemayan', 'Chhota Bheem Kungfu Dhamaka',
       'Dragonkala Ka Rahasya'], dtype=object)
```

Chhota Bheem Movie is the most popular & loved movies In Netflix
which comes under Kids TV.

In [162...
```python
df.loc[df["country"]=="United States"]["listed_in"].unique()
```

Out[162]:
```
array(['Documentaries', 'Dramas', ' Independent Movies',
       ' International Movies', 'Comedies', ' Dramas', 'TV Comedies',
       ' TV Dramas', 'Horror Movies', ' Sci-Fi & Fantasy', 'Thrillers',
       "Kids' TV", ' TV Sci-Fi & Fantasy', 'Action & Adventure',
       ' Classic Movies', ' Horror Movies', ' Thrillers', 'Reality TV',
       ' TV Comedies', 'Crime TV Shows', ' Music & Musicals',
       ' Sports Movies', 'Children & Family Movies',
       ' TV Action & Adventure', ' Comedies', ' Cult Movies',
       ' Romantic Movies', 'Classic Movies', ' Children & Family Movies',
       ' Faith & Spirituality', ' LGBTQ Movies', 'TV Dramas',
       ' TV Mysteries', ' TV Horror', ' Anime Features', 'Movies',
       ' Docuseries', 'Stand-Up Comedy', 'TV Action & Adventure',
       ' Teen TV Shows', 'Classic & Cult TV', 'Docuseries',
       ' Science & Nature TV', 'Romantic TV Shows', 'Anime Series',
       ' TV Thrillers', 'Stand-Up Comedy & Talk Shows',
       ' Romantic TV Shows', 'TV Shows', 'Cult Movies',
       'Independent Movies', ' Reality TV', 'International TV Shows',
       ' Spanish-Language TV Shows', ' International TV Shows',
       'TV Horror', 'Spanish-Language TV Shows', 'British TV Shows',
       " Kids' TV", ' Documentaries', 'Music & Musicals',
       ' Korean TV Shows', ' Stand-Up Comedy & Talk Shows',
       ' Stand-Up Comedy', ' Crime TV Shows', 'Anime Features',
       'Sci-Fi & Fantasy', 'Romantic Movies'], dtype=object)
```

In [127…
```python
df.loc[df["director"]=="Jan Suter"]["title"].unique()
```

Out[127]:
```
array(['El Especial de Alex Fernández, el Especial',
       'Simplemente Manu NNa', 'Carlos Ballarta: El amor es de putos'],
      dtype=object)
```

International Movies tops among all other genres movie.So,it is recommended to produce such kind of movies to grow Netflix.

In [112…
```python
#  best time to launch a TV show?
nf[nf["type"]=="TV Show"].groupby(by=["date_month"])['title'].nunique().sort_values(as
#nf[nf["type"]=="TV Show"].groupby(by=["listed_in"])['title'].nunique().sort_values(as
```

Out[112]:
```
date_month
December     266
July         262
September    251
August       236
June         236
October      215
April        214
March        213
November     207
May          193
January      192
February     181
Name: title, dtype: int64
```

4.1 For continuous variable(s): Distplot, countplot, histogram for univariate analysis

In [38]:
```python
plt.figure(figsize=(15,9))
sns.distplot(nf["release_year"],color='g')
plt.show
```

Out[38]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```
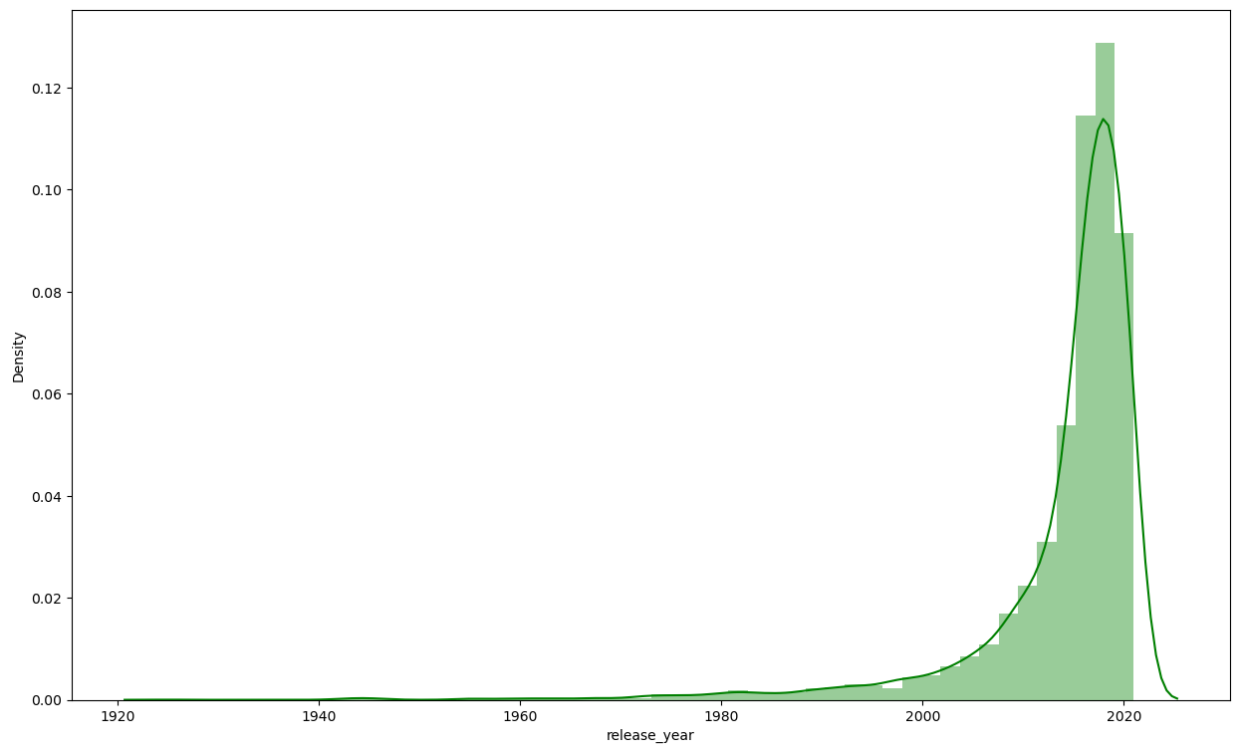
Distplot shows with the given data there is no uniform distribution and most of datapoints falls on right from 2000 to 2020 so over the 20 years there is increased growth rate in business for Netflix and maximum falls inthe yearbb2018.

```
In [41]:   plt.figure(figsize=(15,9))
           sns.distplot(nf["date_month"],hist=False,color='g')
           plt.show
```

Out[41]:   `<function matplotlib.pyplot.show(close=None, block=None)>`
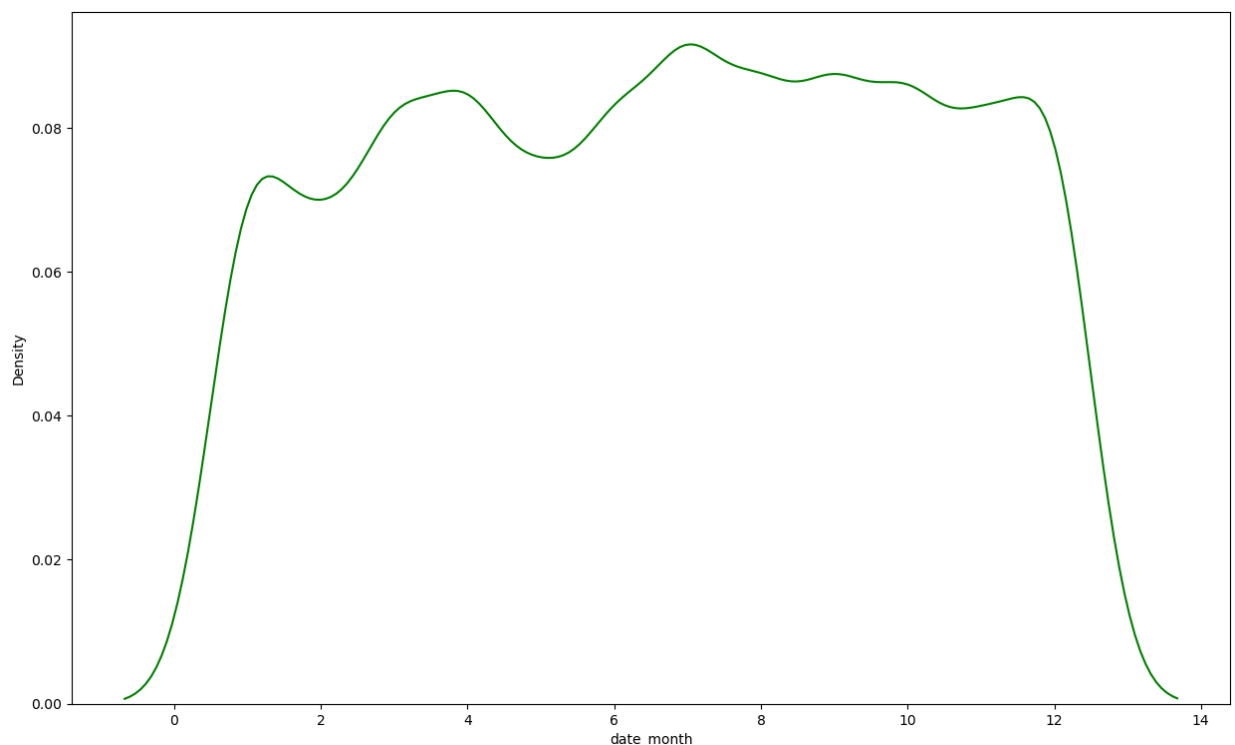
from above distribution it is evident that most of the movies/TV Show releases are in the month of July followed by december.

In [187… `df`

Out[187]:

	title	cast	director	country	listed_in	release_year	type
0	Dick Johnson Is Dead	cast NA	Kirsten Johnson	United States	Documentaries	2020	Movie
1	Blood & Water	Ama Qamata	director NA	South Africa	International TV Shows	2021	TV Show
2	Blood & Water	Ama Qamata	director NA	South Africa	TV Dramas	2021	TV Show
3	Blood & Water	Ama Qamata	director NA	South Africa	TV Mysteries	2021	TV Show
4	Blood & Water	Khosi Ngema	director NA	South Africa	International TV Shows	2021	TV Show
...	...	...	...	...	...	...	...
201902	Zubaan	Anita Shabdish	Mozez Singh	India	International Movies	2015	Movie
201903	Zubaan	Anita Shabdish	Mozez Singh	India	Music & Musicals	2015	Movie
201904	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Dramas	2015	Movie
201905	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	International Movies	2015	Movie
201906	Zubaan	Chittaranjan Tripathy	Mozez Singh	India	Music & Musicals	2015	Movie

201907 rows × 7 columns

In [188… `df[["type","title","country"]]`

Out[188]:

	type	title	country
0	Movie	Dick Johnson Is Dead	United States
1	TV Show	Blood & Water	South Africa
2	TV Show	Blood & Water	South Africa
3	TV Show	Blood & Water	South Africa
4	TV Show	Blood & Water	South Africa
...	...	...	...
201902	Movie	Zubaan	India
201903	Movie	Zubaan	India
201904	Movie	Zubaan	India
201905	Movie	Zubaan	India
201906	Movie	Zubaan	India

201907 rows × 3 columns

In [215...

```python
df[df["country"]=="United States"].groupby("type")["title"].nunique()
```

Out[215]:

```
type
Movie      2364
TV Show     841
Name: title, dtype: int64
```

In [210...

```python
df=df_final[["title","country"]]
df=df[df.country != "country NA"]
df=df.groupby("country")["title"].nunique().sort_values(ascending=False).reset_index()
df=df.head(10)
plt.figure(figsize=(10,4))
sns.barplot(data=df,x='country',y='title')
plt.title('Top 10 Countries on Netflix')
plt.xlabel("country")
plt.ylabel("Releases Count")
plt.show()
```


Top 10 Countries on Netflix
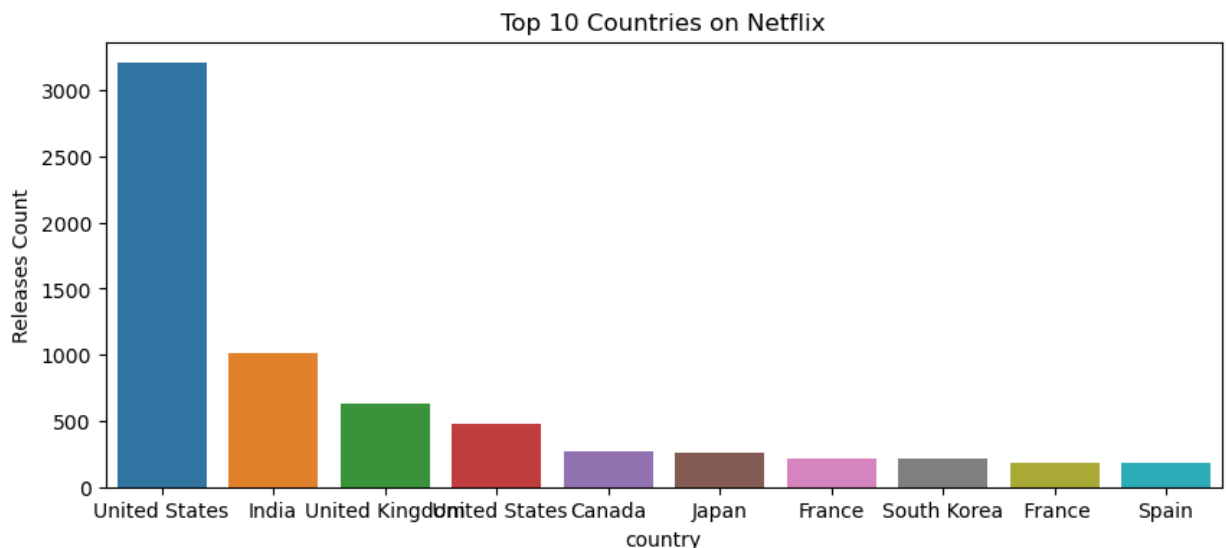
Above bar plot shows that United States leads in no of releases in Netflix platform ,so majority
audience are in US .So, Netflix must target US as its target country to grow its business.

```
In [128…   plt.hist(nf['date_year'],bins=4)
           plt.show()
```
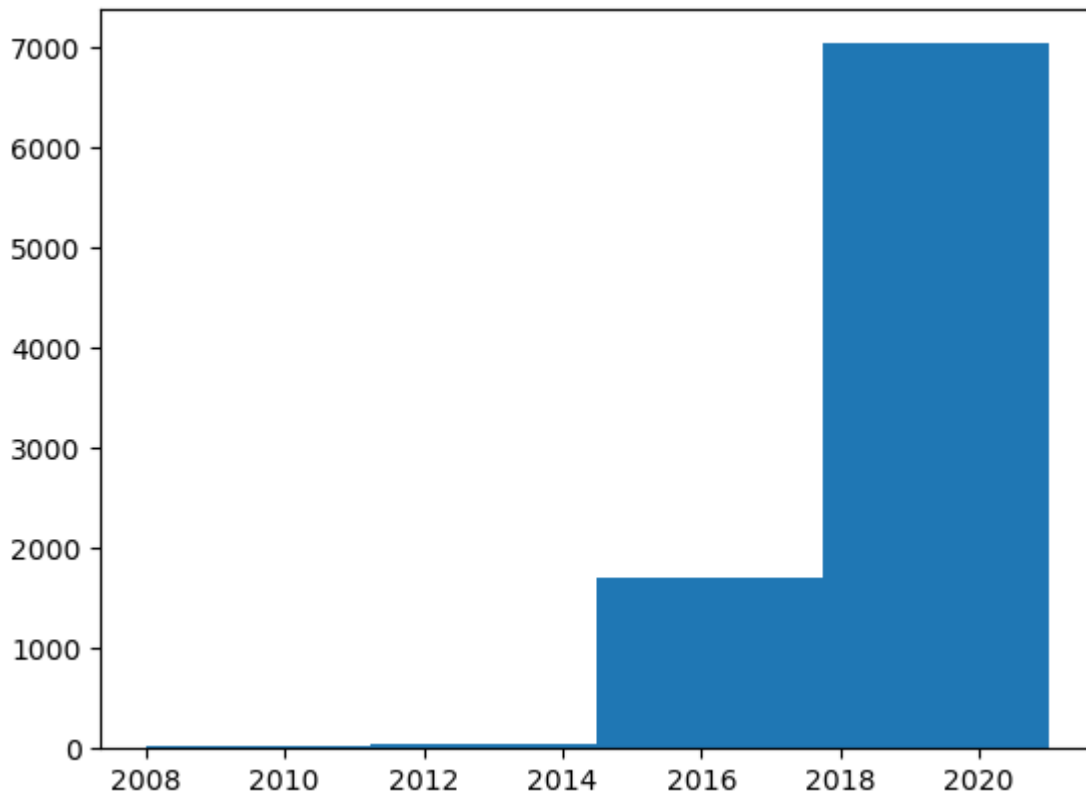

As concluded before , no of movies & TV Shows that was added in Netflix has increased more
than 3 times after 2018.

```
In [67]:   plt.figure(figsize=(15,9))
           sns.countplot(data=nf,
                   x='date_year',
                   order=nf["date_year"].value_counts().index,
                   color="orange")
           plt.xticks(rotation=90)
           plt.show()
```
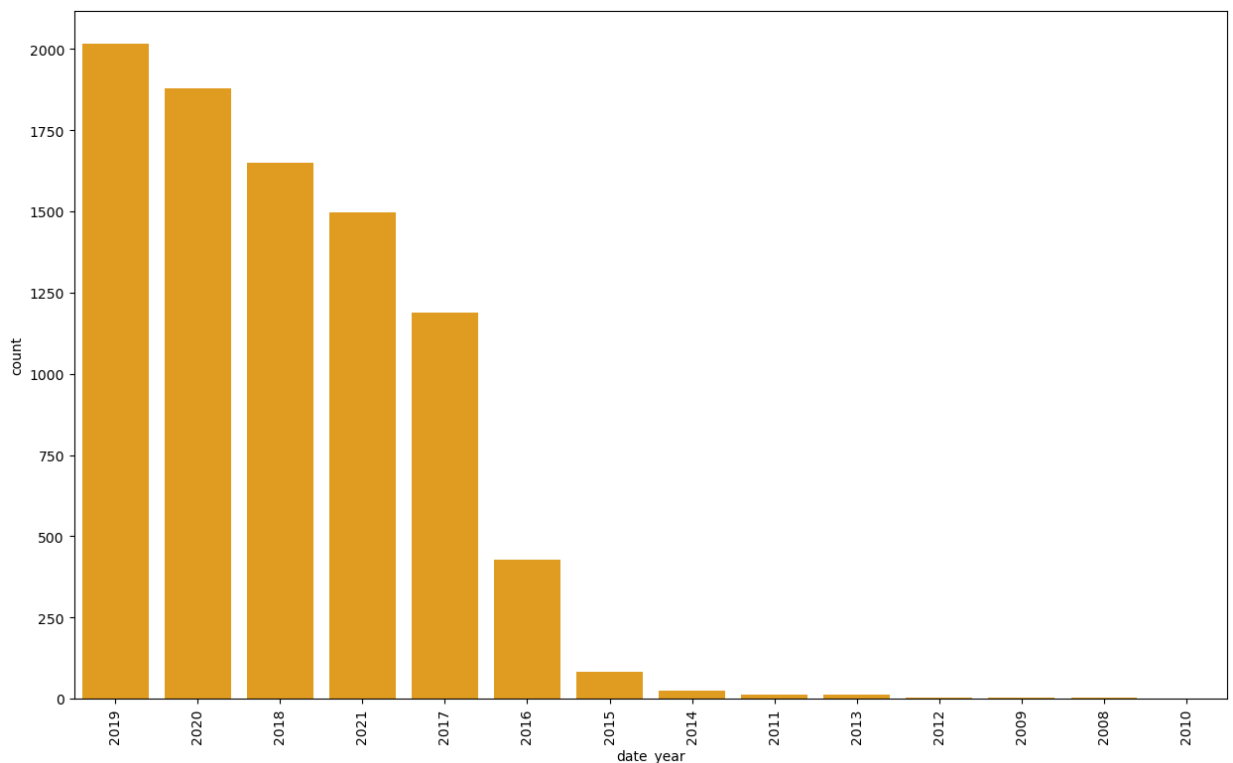
The year 2019 has around 2000 releases & has been the sucessful year for Netflix.

4.2 For categorical variable(s): Boxplot

It is notable that no of releases in Netflix is equally distributed between 2018 and 2021 while median being 2019 where most of the releases happened.

```
In [131…   plt.figure(figsize=(20,10))
           sns.boxplot(data=nf,x="type",y=nf["date_year"])
           plt.show()
```
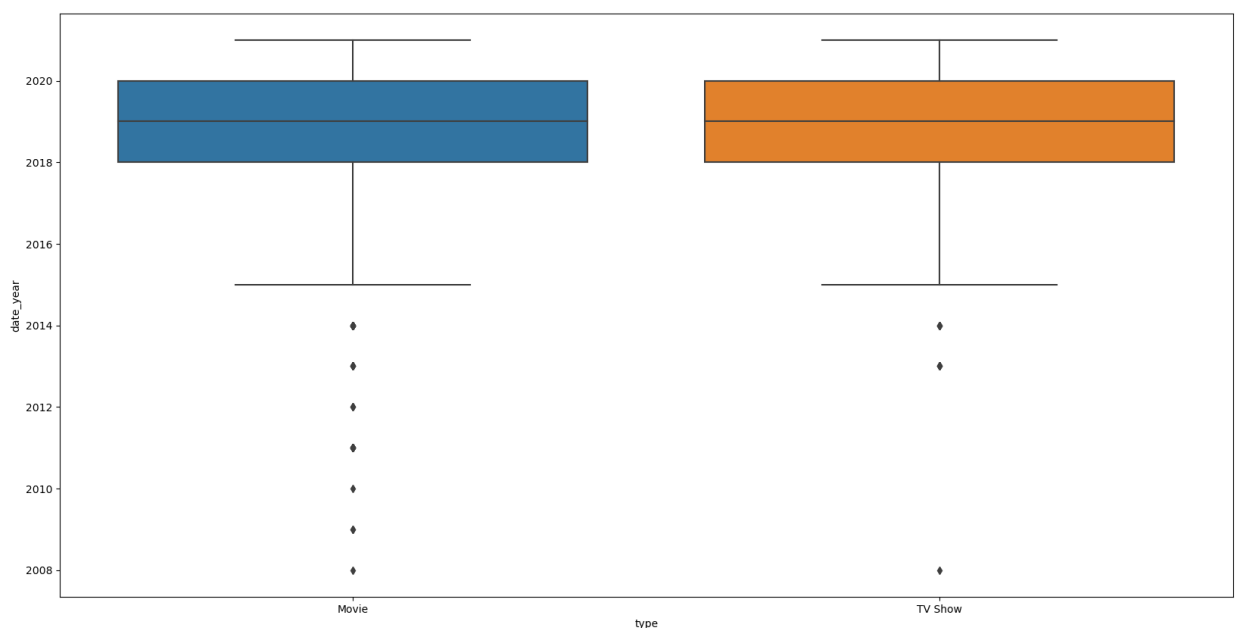

Spread of data is between 2014 to 2019 and the data lies between min=2004 & max=2021 and there are no of outliers before the minimum year from 1920 to 2004. More Movies are released

than TV Shows 75 percentile of data lies after 2020 for TV shows .

The above data shows that over the years no of TV shows produced & released is increasing than movies that means it is suggested to produce more shows as audiences are showing more interest in TV shows in recent years than in earlier years of Netflix.

In [42]:
```python
rating_count=nf.rating.value_counts().to_frame().reset_index()
rating_count
```

Out[42]:

	index	rating
0	TV-MA	3207
1	TV-14	2158
2	TV-PG	862
3	R	799
4	PG-13	490
5	TV-Y7	333
6	TV-Y	306
7	PG	288
8	TV-G	220
9	NR	81
10	G	41
11	TV-Y7-FV	6
12	NC-17	3
13	UR	3

In [219…
```python
plt.figure(figsize=(15,9))
sns.boxplot(data=nf,x="rating",y="date_year",hue="type")
plt.show
```

Out[219]:   <function matplotlib.pyplot.show(close=None, block=None)>
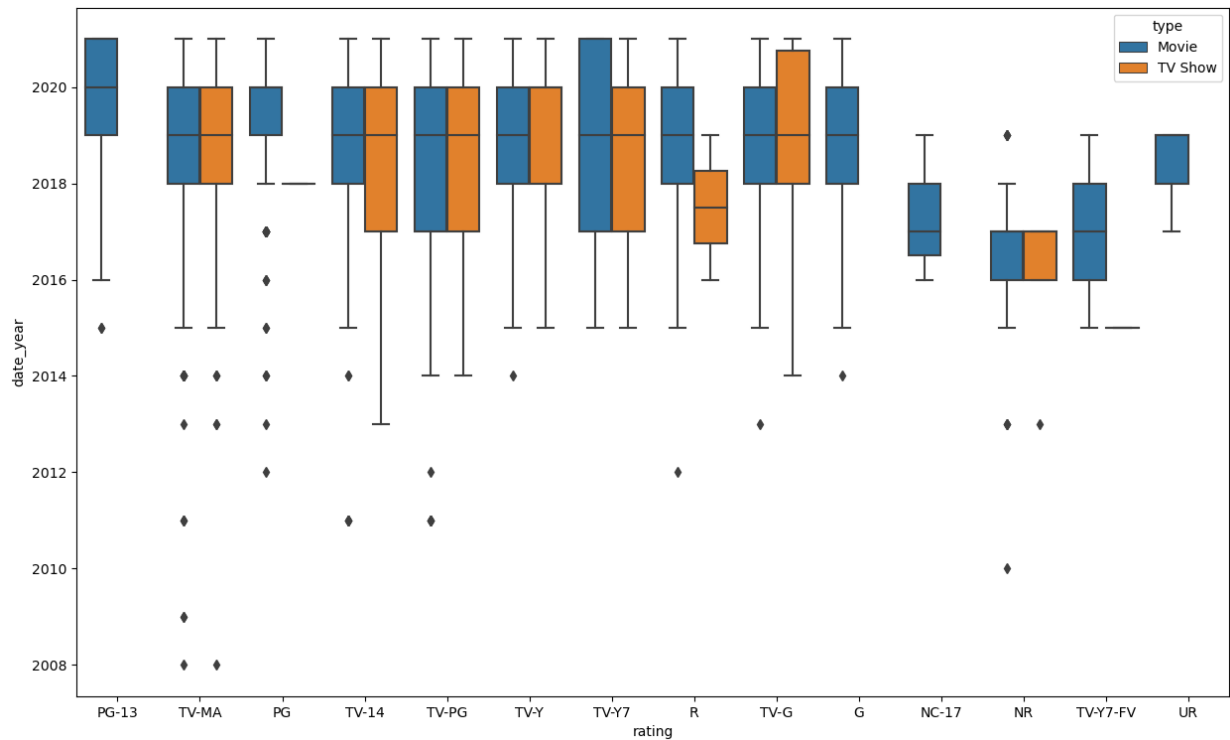
NR & TV-Y7-FV rated movies & TV S hows are the oldest ones which has lost its popularityin recent years whereas TV-MA rating tops when analysing for release year compared to other ratings.PG-13 rated movies &TV-Y7 rated movies has become popular in recent years.

4.3 For correlation: Heatmaps, Pairplots

In [135...   `nf`

Out[135]:

	show_id	type	title	director	cast	country	date_added	release_year	rating
0	1	Movie	Dick Johnson Is Dead	Kirsten Johnson	cast NA	United States	2021-09-25	2020	PG-13
1	2	TV Show	Blood & Water	director NA	Ama Qamata, Khosi Ngema, Gail Mabalane, Thabang Molaba, Dillon Windvogel, Natasha Thahane, Arno Greeff, Xolile Tshabalala, Getmore Sithole, Cindy Mahlangu, Ryle De Morny, Greteli Fincham, Sello Maake Ka-Ncube, Odwa Gwanya, Mekaila Mathys, Sandi Schultz, Duane Williams, Shamilla Miller, Patrick Mofokeng	South Africa	2021-09-24	2021	TV-MA
2	3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabiha Akkari, Sofia	country NA	2021-09-24	2021	TV-MA

	show_id	type	title	director	cast	country	date_added	release_year	rating
					Lesaffre, Salim Kechiouche, Noureddine Farihi, Geert Van Rampelberg, Bakary Diombera				
3	4	TV Show	Jailbirds New Orleans	director NA	cast NA	country NA	2021-09-24	2021	TV-MA
4	5	TV Show	Kota Factory	director NA	Mayur More, Jitendra Kumar, Ranjan Raj, Alam Khan, Ahsaas Channa, Revathi Pillai, Urvi Singh, Arun Kumar	India	2021-09-24	2021	TV-MA
...	...	...	...	...	...	...	...	...	...
8802	8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey Jr., Anthony Edwards, Brian Cox, Elias Koteas, Donal Logue, John Carroll Lynch, Dermot Mulroney, Chloë Sevigny	United States	2019-11-20	2007	R

	show_id	type	title	director	cast	country	date_added	release_year	rating
8803	8804	TV Show	Zombie Dumb	director NA	cast NA	country NA	2019-07-01	2018	TV-Y7
8804	8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, Abigail Breslin, Amber Heard, Bill Murray, Derek Graf	United States	2019-11-01	2009	R
8805	8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Mara, Ryan Newman, Michael Cassidy, Spencer Breslin, Rip Torn, Kevin Zegers	United States	2020-01-11	2006	PG
8806	8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanana, Manish Chaudhary, Meghna Malik, Malkeet Rauni, Anita Shabdish, Chittaranjan Tripathy	India	2019-03-02	2015	TV-14

```
In [43]:  dd=nf[["release_year","title","date_month","date_year"]]
          df=pd.merge(df,dd,on="title",how='inner')
```

```
dd
```

Out[43]:

	release_year	title	date_month	date_year
0	2020	Dick Johnson Is Dead	9	2021
1	2021	Blood & Water	9	2021
2	2021	Ganglands	9	2021
3	2021	Jailbirds New Orleans	9	2021
4	2021	Kota Factory	9	2021
...	...	...	...	...
8802	2007	Zodiac	11	2019
8803	2018	Zombie Dumb	7	2019
8804	2009	Zombieland	11	2019
8805	2006	Zoom	1	2020
8806	2015	Zubaan	3	2019

8797 rows × 4 columns

In [60]:
```python
heat=nf.pivot_table(index="date_year",columns="date_month",values="title",aggfunc='cou
```

In [61]:
```python
sns.heatmap(heat, cmap= "coolwarm")
plt.show()
```
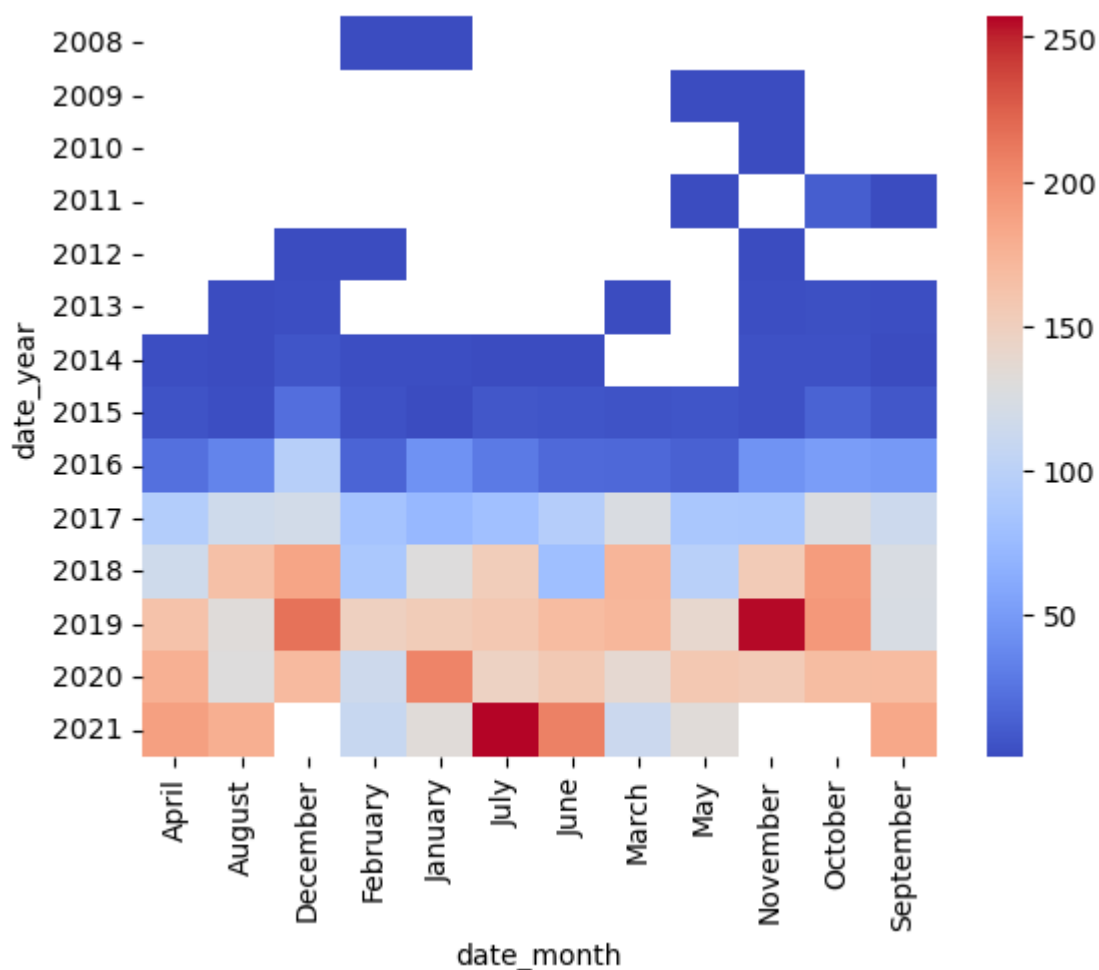
From before observations it is clear that December 2018 had the largest no of releases and above heatmap shows that July 2021 and November 2019 highest no of movies were added to Netflix platform.

In [62]: `nf[["title","release_year","date_year"]]`

Out[62]:

	title	release_year	date_year
0	Dick Johnson Is Dead	2020	2021
1	Blood & Water	2021	2021
2	Ganglands	2021	2021
3	Jailbirds New Orleans	2021	2021
4	Kota Factory	2021	2021
...	...	...	...
8802	Zodiac	2007	2019
8803	Zombie Dumb	2018	2019
8804	Zombieland	2009	2019
8805	Zoom	2006	2020
8806	Zubaan	2015	2019

8797 rows × 3 columns

In [24]:
```python
nf["show_id"]=nf["show_id"].str.lstrip('s').astype('Int64')
nf[["duration_value","duration_unit"]]=nf["duration"].str.split(' ',expand=True)
nf.drop(["duration_unit","date"],axis=1,inplace=True)
nf["duration_value"]=nf["duration_value"].astype('Int64')
nf
```

Out[24]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	d
0	1	Movie	Dick Johnson Is Dead	Kirsten Johnson	cast NA	United States	2021-09-25	2020	PG-13	
1	2	TV Show	Blood & Water	director NA	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	2021-09-24	2021	TV-MA	S
2	3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	country NA	2021-09-24	2021	TV-MA	1
3	4	TV Show	Jailbirds New Orleans	director NA	cast NA	country NA	2021-09-24	2021	TV-MA	1
4	5	TV Show	Kota Factory	director NA	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	2021-09-24	2021	TV-MA	S
...	...	...	...	...	...	...	...	...	...	
8802	8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	2019-11-20	2007	R	1
8803	8804	TV Show	Zombie Dumb	director NA	cast NA	country NA	2019-07-01	2018	TV-Y7	S
8804	8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	2019-11-01	2009	R	

	show_id	type	title	director	cast	country	date_added	release_year	rating	d
8805	8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma…	United States	2020-01-11	2006	PG	
8806	8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan…	India	2019-03-02	2015	TV-14	

```
In [126… nf["show_id"].unique()
```

```
Out[126]: <IntegerArray>
          [   1,    2,    3,    4,    5,    6,    7,    8,    9,   10,
           ...
           8798, 8799, 8800, 8801, 8802, 8803, 8804, 8805, 8806, 8807]
          Length: 8807, dtype: Int64
```

```
In [59]: plt.figure()
         sns.heatmap(nf.corr(),annot=True)
```

```
Out[59]: <Axes: >
```
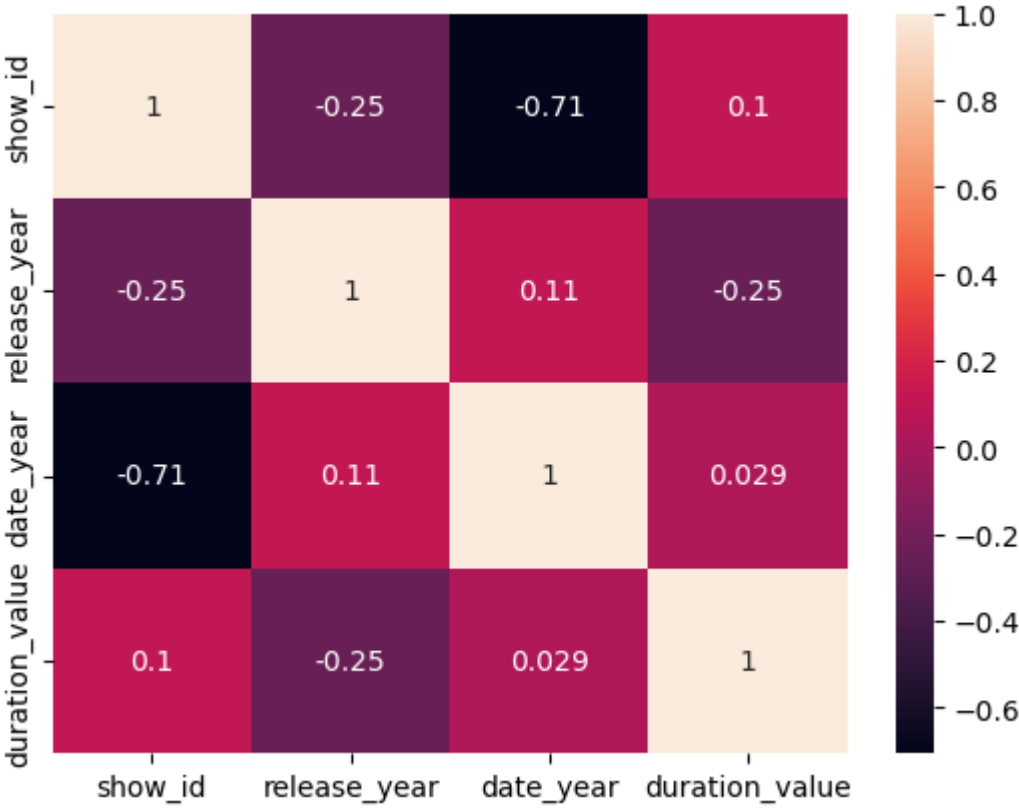


```
In [150… sns.pairplot(data=nf)
```

Out[150]:   `<seaborn.axisgrid.PairGrid at 0x171d0d4af20>`
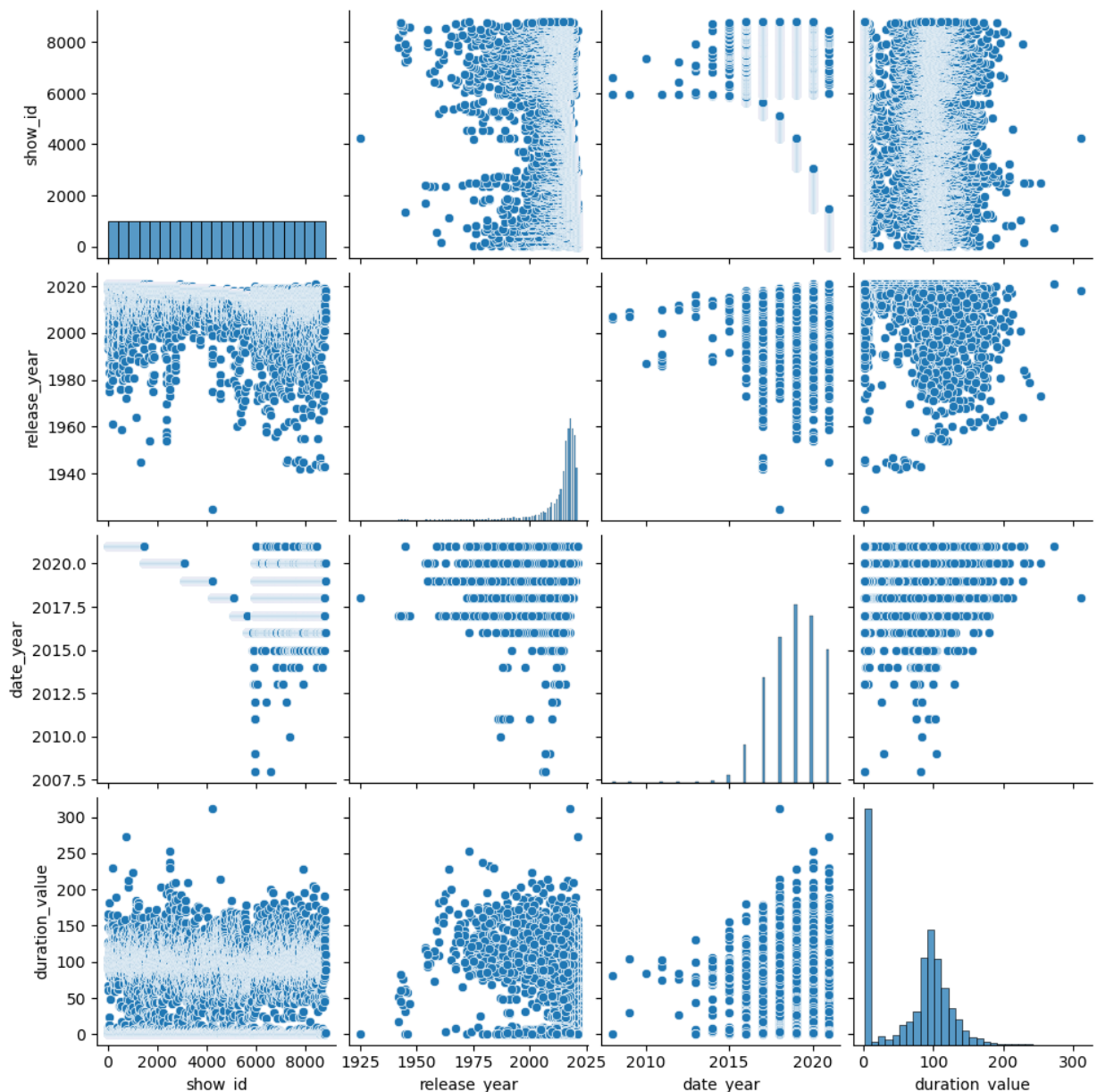
Most of the show_ID lie between 50 to 150 min duration which means people prefer shows betweeen 50mins to 2.5 hours.No of shows is increased after 2014

6.1 Comments on the range of attributes

In [136…]   ```
nf['release_year'].max()
```

Out[136]:    2021

In [137…]    ```
nf['release_year'].min()
```

Out[137]:   1925

6.2 Comments on the distribution of the variables and relationship between them

In [142…]   ```
df[df["director"]=="Rajiv Chilaka"].groupby(by=["director","cast"])["cast"].nunique().
```

Out[142]:
```
director   cast
Rajiv Chilaka   Aditya Raj Sharma   1
                 Rupa Bhimani   1
                Vatsal Dubey   1
                Sonal Kaushal   1
                Pooja Punabi   1
                Kaustav Ghosh   1
                 Vinod Kulkarni   1
                 Vaibhav Thakkar   1
                 Swapnil   1
                 Sanchit Wartak   1
                 Samriddhi Shuklaa   1
                 Sabina Malik   1
                 Rajesh Kava   1
                 Anamaya Verma   1
                 Parigna Pandya   1
                 Mousam   1
                 Mausam   1
                 Julie Tejwani   1
                 Jigna Bhardwaj   1
                 Jigna Bharadhwaj   1
                 Guru Shambu   1
                 Chutki   1
                 Arun Shekher   1
                 Arun Shekar   1
                cast NA   1
Name: cast, dtype: int64
```

In [71]:
```python
df[df["director"]=="Rajiv Chilaka"].groupby(by=["director","listed_in"])["cast"].nuniq
```

Out[71]:
```
director        listed_in
Rajiv Chilaka   Children & Family Movies      25
                Sports Movies                  8
Name: cast, dtype: int64
```

In [160…
```python
#most popular TV Shows
df[df["type"]=="TV Show"].groupby(by=["listed_in"])["title"].nunique().sort_values(asc
```

Out[160]:
```
listed_in
International TV Shows            773
 TV Dramas                       695
 International TV Shows           577
 TV Comedies                     455
Crime TV Shows                   399
Kids' TV                         386
 Romantic TV Shows               338
British TV Shows                 252
Docuseries                       220
Anime Series                     175
 Docuseries                      174
 Spanish-Language TV Shows       171
 Korean TV Shows                 151
 Reality TV                      135
 TV Action & Adventure           128
Reality TV                       120
TV Comedies                      119
 TV Mysteries                     98
 Science & Nature TV              92
 TV Sci-Fi & Fantasy              82
 Crime TV Shows                   70
 Teen TV Shows                    69
TV Dramas                         67
 TV Horror                        64
 Kids' TV                         63
 TV Thrillers                     57
TV Action & Adventure             39
Stand-Up Comedy & Talk Shows      34
Romantic TV Shows                 32
 Stand-Up Comedy & Talk Shows     22
Classic & Cult TV                 20
TV Shows                          16
TV Horror                         11
 Classic & Cult TV                 6
Spanish-Language TV Shows          2
TV Sci-Fi & Fantasy                1
Name: title, dtype: int64
```

In [52]:
```python
#most popular actor

df_final.groupby(by=["cast"])["title"].nunique().sort_values(ascending=False)
```

Out[52]:
```
cast
nan                  825
 Anupam Kher          39
 Rupa Bhimani         31
 Takahiro Sakurai     30
 Julie Tejwani        28
                     ...
 João Côrtes           1
 João Assunção         1
 Joziah Lagonoy        1
 Jozef Gjura           1
Ṣọpẹ́ Dìrísù           1
Name: title, Length: 39297, dtype: int64
```

In [78]:
```python
#most popular director
df_final.groupby(by=["director"])["title"].nunique().sort_values(ascending=False)
```

```
Out[78]:  director
          nan                      2634
          Rajiv Chilaka             22
           Jan Suter               18
          Raúl Campos               18
          Suhas Kadav               16
          Marcus Raboy              16
          Jay Karas                 15
          Cathy Garcia-Molina       13
          Jay Chapman               12
          Martin Scorsese           12
          Youssef Chahine           12
          Steven Spielberg          11
          Don Michael Paul          10
          Shannon Hartman            9
          David Dhawan               9
          Yılmaz Erdoğan             9
          Johnnie To                 8
          Quentin Tarantino          8
          Hanung Bramantyo           8
          Ryan Polito                8
          Robert Rodriguez           8
          Kunle Afolayan             8
          Troy Miller                8
          Hakan Algül                8
          Lance Bangs                8
          Fernando Ayllón            8
          Anurag Kashyap             7
          Prakash Satam              7
          Justin G. Dyck             7
          Hidenori Inoue             7
          Omoni Oboli                7
          Ozan Açıktan               7
          Lasse Hallström            7
          S.S. Rajamouli             7
          Toshiya Shinohara          7
          Mae Czarina Cruz           7
          Ram Gopal Varma            7
          Clint Eastwood             7
          McG                        7
          Ron Howard                 7
          Leslie Small               7
          Noah Baumbach              7
          Robert Vince               6
          Sooraj R. Barjatya         6
          Robert Luketic             6
          Wenn V. Deramas            6
          David Fincher              6
          Michael Simon              6
          Matt Askem                 6
          Rocky Soraya               6
          Sameh Abdulaziz            6
          Ashutosh Gowariker         6
          Rajkumar Santoshi          6
          Steven Soderbergh          6
          Vlad Yudin                 6
          Joey So                    6
          Anees Bazmee               6
          Milan Luthria              6
          Imtiaz Ali                 6
```

Priyadarshan	6
Manny Rodriguez	6
Paul Thomas Anderson	5
Thierry Donard	5
Oliver Stone	5
Shigeaki Kubo	5
Detlev Buck	5
Joe Berlinger	5
Indra Kumar	5
Kıvanç Baruönü	5
Robb Wells	5
Nagesh Kukunoor	5
Spike Lee	5
John G. Avildsen	5
Steve Brill	5
Rohit Shetty	5
Mike Clattenburg	5
Niyi Akinmolayan	5
Steve Ball	5
Rajiv Mehra	5
Andy Tennant	5
William Lau	5
Khaled Marei	5
Vince Marcello	5
Prakash Jha	5
Kevin Smith	5
Antoinette Jadaone	5
Mani Ratnam	5
Umesh Mehra	5
Ken Burns	5
David Batty	5
Riri Riza	5
Angga Dwimas Sasongko	5
Jay Roach	5
Madhur Bhandarkar	5
Vishal Bhardwaj	5
Wong Jing	5
Wilson Yip	5
Martin Campbell	5
Lynn Shelton	5
John Paul Tremblay	5
Ava DuVernay	5
Mahesh Manjrekar	5
Jesse V. Johnson	5
Sean McNamara	4
Chia-Liang Liu	4
Edward Cotterill	4
Bruno Garotti	4
Rakeysh Omprakash Mehra	4
Raja Gosnell	4
Dibakar Banerjee	4
Nishikant Kamat	4
Lee Tamahori	4
Ishi Rudell	4
Shaun Paul Piccinino	4
Zoya Akhtar	4
Shyam Benegal	4
Poj Arnon	4
Dennis Dugan	4
Rathindran R Prasad	4

Conrad Helten	4
Hrishikesh Mukherjee	4
Clay Glen	4
Paul Dugdale	4
Kundan Shah	4
Kayode Kasum	4
Rob Reiner	4
David Zucker	4
Sam Liu	4
Ahmad El-Badri	4
Cristina Jacob	4
Peter Segal	4
Abbas Alibhai Burmawalla	4
Chris Stokes	4
Ahmed Nader Galal	4
David Ayer	4
Dan Villegas	4
Jun Lana	4
Philippe Aractingi	4
Roger Kumble	4
Savage Steve Holland	4
Rohit Jugraj	4
Rob Minkoff	4
Banjong Pisanthanakun	4
Farhan Akhtar	4
Lana Wachowski	4
Subhash Ghai	4
Sudhir Mishra	4
Yoshiyuki Tomino	4
Mike Newell	4
Mike Gunther	4
Mike Flanagan	4
Barry Avrich	4
Michael Tiddes	4
Fajar Bustomi	4
Michael McKay	4
Farah Khan	4
Hernán Zin	4
Terry Gilliam	4
Lucas Margutti	4
Gregory Hoblit	4
Luis Ara	4
Fernando González Molina	4
Masahiko Murata	4
Frank Capra	4
Maroun Baghdadi	4
Jeremy Saulnier	4
Anurag Basu	4
Antonio Campos	4
Antoine Fuqua	4
Mastan Alibhai Burmawalla	4
Vikramaditya Motwane	4
Wael Ehsan	4
Wael Ihsan	4
Werner Herzog	4
Lilly Wachowski	4
Brian Levant	4
Alastair Fothergill	4
Stan Lathan	4
Brad Anderson	4

Ernie Barbarash	4
Bo Burnham	4
Moses Inwang	4
Peter Spirer	3
Hasan Karacadağ	3
Les Mayfield	3
Mark A.Z. Dippé	3
Peyton Reed	3
Petra Costa	3
Dustin McKenzie	3
Gabriele Muccino	3
Mohamed Samy	3
Mark Raso	3
Tilak Shetty	3
Kim Nguyen	3
Peter Jackson	3
Eli Roth	3
Hardik Mehta	3
Mark Waters	3
Drake Doremus	3
Abhishek Sharma	3
Frank Oz	3
G.J. Echternkamp	3
Maria Ripoll	3
Abhishek Kapoor	3
Marc Forster	3
Mahesh Bhatt	3
Raj Kumar Gupta	3
Leigh Janiak	3
Raj Kapoor	3
Garry Marshall	3
Manolo Caro	3
Leena Yadav	3
Neal Brennan	3
Qaushiq Mukherjee	3
Phillip Noyce	3
Kief Davidson	3
Umesh Mehra	3
Gajendra Ahire	3
Dante Lam	3
Lekh Tandon	3
Prakash Mehra	3
Amr Arafa	3
Neeraj Pandey	3
Frank Coraci	3
Yasmin Ahmad	3
Eric Darnell	3
Noriyuki Abe	3
Note Chern-Yim	3
Louis C.K.	3
Pankaj Batra	3
Pang Ho-cheung	3
Pablo Larraín	3
Michèle Ohayon	3
Greg MacGillivray	3
Linda Mendoza	3
Obi Emelonye	3
Mike Smith	3
Orlando von Einsiedel	3
Olivia M. Lamasan	3

Mikhail Red	3
Onir	3
Morgan Neville	3
Olivier Assayas	3
Momoko Kamiya	3
David R. Ellis	3
Yoshikazu Yasuhiko	3
Latif Faiziyev	3
David Michôd	3
Mohamed Hamdy	3
Paul W.S. Anderson	3
Gilles Paquet-Brenner	3
Matías Gueilburt	3
Guillermo del Toro	3
Michael Bay	3
Abhinay Deo	3
Maclain Way	3
Diego Pignataro	3
Gonzalo López-Gallego	3
Michael Dowse	3
Kobun Shizuno	3
Nila Madhab Panda	3
Munjal Shroff	3
David Mackenzie	3
Paul Greengrass	3
Karan Johar	3
Nate Adams	3
Abhishek Chaubey	3
Jon M. Chu	3
Soudade Kaadan	3
John Huston	3
John Fortenberry	3
Bobcat Goldthwait	3
Blair Simmons	3
Steve Carr	3
Jalil Lespert	3
John Asher	3
Steven C. Miller	3
Sujoy Ghosh	3
Sumitra Bhave	3
Bejoy Nambiar	3
Bedran Güzel	3
Sylvester Stallone	3
Barry Sonnenfeld	3
Barry Levinson	3
John Lee Hancock	3
Sofia Coppola	3
Sermiyan Midyat	3
Brett Haley	3
Seth Barrish	3
Seyi Babatope	3
Stanley Moore	3
Ismail Farouk	3
Andrew Lau Wai-Keung	3
Israel Adrián Caetano	3
Jonathan Demme	3
Burak Aksak	3
Shawn Levy	3
Jon Rosenbaum	3
Rajiv Menon	3

Shirish Kunder	3
Ivan Reitman	3
Simon Wincer	3
John Schultz	3
Joe Camp	3
Alex Díaz	3
Tate Taylor	3
Barak Goodman	3
Alex Woo	3
Jan Suter	3
Jane Campion	3
Jared Hess	3
Vicky Matthews	3
Vikas Bahl	3
Jeff Nichols	3
Jeff Baena	3
Vivieno Caldinelli	3
Walter C. Miller	3
Walter Hill	3
Alfonso Cuarón	3
Amitoj Mann	3
Andrzej Bartkowiak	3
Wolfgang Petersen	3
Toshiyuki Kubooka	3
Tope Oshin	3
Ashwin Saravanan	3
Tilak Shetty	3
Theodore Boborol	3
BB Sasore	3
B. V. Nandini Reddy	3
Aziz Mirza	3
Alex Lehmann	3
James Wan	3
Tiller Russell	3
Tom Hooper	3
Tim Burton	3
Timo Tjahjanto	3
Atom Egoyan	3
Todd Phillips	3
Toka McBaror	3
Jerry Rothwell	3
Dibakar Banerjee	3
Mahmoud Karim	3
Chandrakant Kulkarni	3
Pidi Baiq	3
Ricky Gervais	3
Hiroyuki Seshita	3
Kazuchika Kise	3
Rob Cohen	3
Craig Brewer	3
Robert O. Peters	3
Robert Zemeckis	3
Cosima Spender	3
Adrian Teh	3
Roger Donaldson	3
Roland Emmerich	3
Chapman Way	3
Ron Myrick	3
Ron Oliver	3
Karthik Subbaraj	3

Richard Weston	3
Kemi Adetiba	3
Ric Roman Waugh	3
Andibachtiar Yusuf	3
Rajkumar Hirani	3
Adam Carolla	3
Rako Prijanto	3
Ketan Mehta	3
Adam McKay	3
Rano Karno	3
Sunil Sukthankar	3
Ribhu Dasgupta	3
Kenneth Gyang	3
Reginald Hudlin	3
Remo D'Souza	3
Renny Harlin	3
Ken Ghosh	3
Adam Shankman	3
Adze Ugah	3
Adriano Rudiman	3
Satish Rajwade	3
Chris Weitz	3
Sebastián Schindel	3
Karan Johar	3
Charles Stone III	3
Chris Howe	3
Christopher Nolen	3
Ishaya Bako	3
Scott Zabielski	3
Julien Leclercq	3
Chris Smith	3
Cheh Chang	3
Sachin Yardi	3
Ahmed Al-Badry	3
Gregory Caruso	2
Heber Cannon	2
James Yukich	2
Iginio Straffi	2
Gerardo Olivares	2
Ivan Ayr	2
J.A. Bayona	2
George Ford	2
Gus Van Sant	2
Hajime Kamegaki	2
Janusz Majewski	2
Gianfranco Rosi	2
Isaac Ezban	2
Jason Paul Laxamana	2
Guy Ritchie	2
Hadi El Bagoury	2
Jason Reitman	2
Hideaki Anno	2
Heidi Ewing	2
Javier Ruiz Caldera	2
Haifaa Al-Mansour	2
James Wong	2
Gillian Robespierre	2
J.C. Chandor	2
JP Habac	2
Hani Hamdi	2

James Bobin	2
James Mangold	2
Hannah Fidell	2
Hsu Fu-chun	2
James McTeigue	2
Husam El-Gohari	2
Jacob Kornbluth	2
James Ponsoldt	2
Jacob Joice	2
Jack C. Newell	2
James Toback	2
Gore Verbinski	2
Ifa Isfansyah	2
Hussein Kamal	2
J.D. Dillard	2
Halitha Shameem	2
Ian Cheney	2
Howard Zieff	2
George Clooney	2
Harold Cronk	2
Harvey Lowry	2
Girish Malik	2
Ian Edelman	2
Hiromasa Yonebayashi	2
Greg Rankin	2
Herman Yau	2
Andrew Tan	2
George C. Wolfe	2
Bruce Beresford	2
Chad Van De Keere	2
Cem Yılmaz	2
Andrew Niccol	2
Cal Seville	2
Bunmi Ajakaiye	2
Bryan Bertino	2
Brian Volk-Weiss	2
Charles Uwagbai	2
Brian Robbins	2
Brian Oakes	2
Brian Klein	2
Brian De Palma	2
Bradley Parker	2
Brad Peyton	2
Chanda Bell	2
Charlie Lightening	2
Courtney Hunt	2
Christopher Guest	2
Colin Trevorrow	2
Clark Johnson	2
Claire Scanlon	2
Ciarán Foy	2
Christopher Storer	2
Christopher Smith	2
Chris Sivertson	2
Charlie McDowell	2
Chris Robinson	2
Chris Renaud	2
Chris Buck	2
Chris Bould	2
Chris Bell	2

Chito S. Roño	2
Brad Bird	2
Bonni Cohen	2
Bong Joon Ho	2
Antonio Serrano	2
Ashwiny Iyer Tiwari	2
Ashok Nanda	2
Asghar Farhadi	2
Ari Sandel	2
Apoorva Lakhia	2
Anurin Nwunembom	2
Anthony Scott Burns	2
Bobby Farrelly	2
Anthony Minghella	2
Anthony Giordano	2
Anthony D'Souza	2
Anirban Majumder	2
Angelina Jolie	2
Andy Fickman	2
Asif Kapadia	2
Atanu Ghosh	2
Avadhoot Gupte	2
Baljit Singh Deo	2
Baran bo Odar	2
Barbra Streisand	2
Basu Chatterjee	2
Ben Simms	2
Ben Wallis	2
Ben Wheatley	2
Benjamin Turner	2
Bernie Denk	2
Bert Marcus	2
Bill Condon	2
Bill D'Elia	2
Bille Woodruff	2
Billy Corben	2
Corey Yuen	2
Cristi Puiu	2
Gastón Duprat	2
Elaine McMillion Sheldon	2
Esteban Crespo	2
Erwin van den Eshof	2
Errol Morris	2
Erik Canuel	2
Eric Idle	2
Eli Craig	2
Ekene Som Mekwunye	2
Estela Renner	2
Edwin	2
Eduardo Roy Jr.	2
Eduardo Chauvet	2
Duncan Jones	2
Don Bluth	2
Dominic Sena	2
Esteban Vidal	2
Ethan Coen	2
Dallas Jackson	2
Floyd Russ	2
Gary Ross	2
Gary Fleder	2

Gareth Evans	2
Frank Rajah Arase	2
Amy Poehler	2
Francesco Imperato	2
Florian Henckel von Donnersmarck	2
Everardo González	2
Florent Bodin	2
Fernando Meirelles	2
Femi Oyeniran	2
Federico Veiroj	2
Federico Lemos	2
Ezekiel Norton	2
Dino Risi	2
Dimitri Logothetis	2
Dharmesh Darshan	2
Daniel Gray Longino	2
Daniel Stamm	2
Daniel Oriahi	2
Daniel Mann	2
Daniel Lindsay	2
Amy Schumer	2
Daniel Kontur	2
Daniel Calparsoro	2
Derek Cianfrance	2
Daniel Benmayor	2
Daniel Alfredson	2
Dan Gilroy	2
Dan Forrer	2
Damián Romay	2
Damien O'Connor	2
Danny Boyle	2
Darren Lynn Bousman	2
Dave Higby	2
Jay Chandrasekhar	2
David Dobkin	2
David E. Talbert	2
David Fairhead	2
David Gordon Green	2
David M. Rosenthal	2
David O. Russell	2
David Pablos	2
David Paul Meyer	2
David Sington	2
Davis Guggenheim	2
Dee Rees	2
Delhiprasad Deenadayalan	2
Dennie Gordon	2
Aaron Moorhead	2
Luis Lopez	2
Jayan Moodley	2
Sachin	2
Scott Hicks	2
Scott Aukerman	2
Satyajit Bhatkal	2
Satish Kaushik	2
Saratswadee Wongsomphet	2
Sarah Gavron	2
Sara Colangelo	2
Santosh Sivan	2
Sanjay Jadhav	2

Sangeeth Sivan	2
Sang-ho Yeon	2
Sameer Vidwans	2
Sam Taplin	2
Sam Raimi	2
Sam Mendes	2
Sam Hobkinson	2
Sam Dunn	2
Scott L. Montoya	2
Scott Moran	2
Scott Stewart	2
Shashanka Ghosh	2
Sidheswar Shukla	2
Shlok Sharma	2
Shivam Nair	2
Shirley Frimpong-Manso	2
Shinji Aramaki	2
Shin Won-ho	2
Sherif Arafa	2
Shashank Khaitan	2
Sean Cisterna	2
Shalini Kantayya	2
Shakun Batra	2
Shakti Samanta	2
Sergio Leone	2
Selçuk Aydemir	2
Sekhar Kammula	2
Sean Penn	2
Salvador Calvo	2
S.S. Wilson	2
Peter Lepeniotis	2
Ryan Murphy	2
Rhys Thomas	2
Renzil D'Silva	2
Reema Kagti	2
Rebecca Zlotowski	2
Randall Lobb	2
Randal Kleiser	2
Ramsey Nouah	2
Rajat Kapoor	2
Raditya Dika	2
RZA	2
R. Ellis Frazier	2
Punit Malhotra	2
Pratim D. Gupta	2
Pierre Morel	2
Philipp Stölzl	2
Phil Weinstein	2
Peter Sullivan	2
Rian Johnson	2
Richard LaGravenese	2
Richard Rich	2
Rodrigo Van Der Put	2
Ryan Coogler	2
Ruel S. Bayani	2
Rudy Soedjarwo	2
Ruben Fleischer	2
Ross Boyask	2
Ron Davis	2
Roger Allers	2

Rod Blackhurst	2
Ridley Scott	2
Robin Swicord	2
Robert Kenner	2
Robert Altman	2
Rob Seidenglanz	2
Rob Marshall	2
Rizal Mantovani	2
Ringo Lam	2
Simon Stone	2
Simon Wells	2
Sion Sono	2
Smeep Kang	2
V Vignarajan	2
Upi Avianto	2
Umesh Shukla	2
Ulises Valencia	2
Tyler Spindel	2
Tyler Perry	2
Tsutomu Mizushima	2
Trivikram Srinivas	2
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Kasper Collin	1

Kasra Farahani	1
Katarina Launing	1
Kate Horne	1
Kader Aoun	1
Pranav Singh	1
Kabir Khan	1
Justin Lee	1
Jung-woo Park	1
Junichi Sato	1
Junior Carelli	1
Juraj Šajmovič	1
Just Philippot	1
Justin Baldoni	1
Justin Bare	1
Quinn Kanaly	1
Justin Chadwick	1
Justin Chon	1
Qaushiq Mukherjee	1
Priyadarshan	1
Justin Krook	1
Justin McConnell	1
Kabir Bhatia	1
Justin P. Lange	1
Justin Pemberton	1
Pratim D. Gupta	1
Jérémie Degruson	1
Jérémy Clapin	1
K. Gopinathan	1
K. Rajagopal	1
K. Ramanlal	1
K. Subhash	1
K.C. Bokadia	1
K.S. Ravikumar	1
KVR Mahendra	1
Kaashvie Nair	1
Kate Melville	1
Katherine Brooks	1
Kevin Peeples	1
Katherine Dieckmann	1
Ken Kushner	1
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Ken Loach	1
Ken Marino	1
Paul Brizzi	1
Kenneth Müller	1
Kenny Leon	1
Kenny Ortega	1
Patrik Forsberg	1
Kenzo Maihara	1
Patrick Osborne	1
Kepa Sojo	1
Patrick Leung	1
Ketche	1
Kevan Peterson	1
Kevin Booth	1
Kevin Bray	1
Kevin Costner	1
Kevin Derek	1
Kevin Donovan	1
Kevin Ford	1

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Kevin Hooks                        1
Kevin Johnson                      1
Kevin Ko                           1
 Patricia Tourancheau              1
 Patricia Font                     1
Kevin Macdonald                    1
Kevin McManus                      1
Kevin Munroe                       1
Ken Hughes                         1
 Paul Demeyer                      1
 Paul G. Volk                      1
Keerthi                            1
Katherine Fairfax Wright           1
Kathryn Bigelow                    1
Kathryn Fasegha                    1
Katleho Ramaphakela                1
Katy Chevigny                      1
Kavi Raz                           1
 Pete Jacobs                       1
Kazuaki Kiriya                     1
 Pedro Waddington                  1
Kazuya Murata                      1
Keanu Reeves                       1
 Pedro Kos                         1
Keenen Ivory Wayans                1
Kees Van Oostrum                   1
Ken Barbet                         1
Keiichi Hara                       1
Keiichi Sato                       1
Keiko Yagi                         1
 Paween Purikitpanya               1
Keith Fulton                       1
Keith L. Smith                     1
Keith Malloy                       1
Keith Scholey                      1
Kelly Duane de la Vega             1
Kelly Fremon Craig                 1
Kelly Noonan                       1
Kelly Reichardt                    1
 Paul Weitz                        1
Jennifer Yuh Nelson                1
Jennifer Siebel Newsom             1
Fluvio Iannuci                     1
Gregg Bishop                       1
Gregory Jacobs                     1
Gregory Nava                       1
Gregory Plotkin                    1
Greta Gerwig                       1
Griffin Dunne                      1
Guilherme Fontes                   1
Guillaume Pierret                  1
Guillermo Garcia                   1
Guillermo de Oliveira              1
 Tim Maltby                        1
Gulzar                             1
Guntur Soeharjanto                 1
Guo Jingming                       1
Gupse Özay                         1
Gurinder Chadha                    1
Gurmmeet Singh                     1
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Gurudev Bhalla	1
Gurvinder Singh	1
Tig Notaro	1
Gustavo Ron	1
Thanabodee Uawithya	1
Guy Vasilovich	1
Habib Faisal	1
Terry Jones	1
Hadrah Daeng Ratu	1
Tenzing Sonam	1
Haile Gerima	1
Haissam Hussain	1
Tatiana Villela	1
Tim Skousen	1
Greg Whiteley	1
Jennifer Phang	1
Greg Tiernan	1
Glen Winter	1
Glendyn Ivin	1
Glenn Miller	1
Glenn Weiss	1
Go Koga	1
Gonzalo Bendala	1
Todd Wider	1
Gordon Anderson	1
Gordon Chan	1
Gordon Parks	1
Todd Kauffman	1
Graham Phillips	1
Graham Townsley	1
Grand Corps Malade	1
Grant Heslov	1
Grant Korgan	1
Grant S. Johnson	1
Grant Singer	1
Grant Sputore	1
Greg Barker	1
Greg Berlanti	1
Greg Coolidge	1
Greg Kohs	1
Toby Trackman	1
Greg McLean	1
Greg Mottola	1
Greg Pritikin	1
Timothy Ware-Hill	1
Greg Richardson	1
Tarek Al Eryan	1
Hakan Yonat	1
Halder Gomes	1
Tanwarin Sukkhapisit	1
Harshavardhan Kulkarni	1
Haruka Fujita	1
Harvey Glazer	1
Harvey Lilley	1
Sırrı Süreyya Önder	1
Syrine Boulanouar	1
Hashim Nadeem Khan	1
Hasraf Dulull	1
Hassan AbdulSalam	1
Hassan Hegazy	1

Hatem Khraiche	1
Hayao Miyazaki	1
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Hayden Guppy	1
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Sylvain Blais	1
Heidi Brandenburg	1
Syed Saleh Ahmed Sobhan	1
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Heitor Dhalia	1
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Hemambar Jasti	1
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Henri Wong	1
Henrik Martin Dahlsbakken	1
Henrik Ruben Genz	1
Henry Hathaway	1
Henry Joost	1
Harry Elfont	1
Harry Chaskin	1
Harry Bradbeer	1
Taki Oldham	1
Hallie Meyers-Shyer	1
Hallvard Bræin	1
Ham Tran	1
Hamad AlSarraf	1
Hamisha Daryani Ahuja	1
Han Han	1
Han Kwang Il	1
Han Qing	1
Han Yan	1
Handan İpekçi	1
Hang-Jun Jang	1
Hani Al-Shaibani	1
Tanvir Ahsan	1
Hannes Stöhr	1
Harry Baweja	1
Hanno Olderdissen	1
Hanns-Bruno Kammertöns	1
Hans Petter Moland	1
Takanobu Mizuno	1
Hao Wu	1
Harald Zwart	1
Hari Nath	1
Hari Viswanath	1
Harjit Singh	1
Hark Tsui	1
Harmony Korine	1
Harold Becker	1
Harrison Smith	1
Glen Keane	1
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Giulio Base	1
Garth Davis	1
Fred Wolf	1
Frederick Cipoletti	1
Fredric Lean	1
Fredrick Munk	1
Fritz Böhm	1

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Frédéric Tonolli	1
Fumihiko Sori	1
Funke Akindele	1
Fuwad Khan	1
Vanessa Nöcker	1
Gabe Ibáñez	1
Gabe Klinger	1
Gabriel Clarke	1
Gabriel Grieco	1
Gabriela Cowperthwaite	1
Gabriela García Rivas	1
Gabriela Tagliavini	1
Valeria Pivato	1
Gaby Dellal	1
Gafoor Y. Elliyaas	1
Gagan Puri	1
Gail Willumsen	1
Uriel Sinai	1
Ganesh Kadam	1
Gangadhar Salimath	1
Tyler Measom	1
Garin Nugroho	1
Garrett Bradley	1
Fred Ouro Preto	1
Fred Olen Ray	1
Fred M. Wilcox	1
Franck Nataf	1
Fouad Al Shatti	1
Fouad El-Mohandes	1
Francesco Amato	1
Francesco Carnesecchi	1
Francesco Carrozzini	1
Vignesh Shivan	1
Francesco Lettieri	1
Francine Parker	1
Francis Ford Coppola	1
Francis Lee	1
Francis Whately	1
Francisco D'Eufemia	1
Francisco Macri	1
Franck Phelizon	1
Fred Durst	1
Franck Ribière	1
Frank Ariza	1
Vetri Maaran	1
Vasanth Sai	1
Frank E. Abney III	1
Frank Marshall	1
Vasan Bala	1
Vanita Shastry	1
Frank W Chen	1
Frant Gwo	1
Franziska Meyer Price	1
Frasco Mortiz	1
Fred Cavayé	1
Tunde Apalowo	1
Gary Andrews	1
Giulia Clark	1
Gary Binkow	1

George Gallo	1
George Jackson	1
George Mendeluk	1
George Miller	1
George Nolfi	1
George Ratliff	1
George Stevens	1
Georges Hachem	1
Gerard Barrett	1
Gerard McMurray	1
Gerardo Gatica	1
Tomm Moore	1
Gerhard Mostert	1
Gerry Blaksley	1
Gerry Hoban	1
Gervasio Iglesias	1
Geun-hyun Cho	1
Giancarlo Esposito	1
Tomasz Mandes	1
Gideon Raff	1
Gil Baroni	1
Gil Kenan	1
Gilbert Chan	1
Tom Tykwer	1
Gillian Armstrong	1
Gina Prince-Bythewood	1
Girish Joshi	1
Todd Wilderman	1
Gitanjali Rao	1
Tomoki Kyoda	1
George Cukor	1
Tomotaka Shibayama	1
Toshiyuki Kanno	1
Gary Cohen	1
Gary David Goldberg	1
Gary Howsam	1
Gary Mak	1
Gary Michael Schultz	1
Trey Nelson	1
Gary Sing	1
Gary Stretch	1
Gary Wang	1
Gary Wheeler	1
Gary Winick	1
Gary Young	1
Gaspar Antillo	1
Gaurav Bavdankar	1
Torquil Jones	1
Gaurav Narayanan	1
Gauravv K Chawla	1
Gauri Shinde	1
Gautier & Leduc	1
Gavin Fitzgerald	1
Gavin O'Connor	1
Gayane Petrosyan	1
Geetu Mohandas	1
Gene Quintano	1
Genevieve Nnaji	1
Genndy Tartakovsky	1
Geoff Anderson	1

Geoffrey Orthwein	1
Henry Sarwer-Foner	1
Henry Selick	1
Hepi Mita	1
Sarjun	1
Jared Moshé	1
Jared Stern	1
Jarrad Paul	1
Jasbir Bijendra Bhati	1
Jasmine D'Souza	1
Jason Bourque	1
Jason Cohen	1
Jason Hehir	1
Jason James	1
Jason Krawczyk	1
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Jason Moore	1
Jason Orley	1
Scott Stewart	1
Jason Priestley	1
Jason Spingarn-Koff	1
Jason Stone	1
Jason Sussberg	1
Jason Winer	1
Jason Zada	1
Jastis Arimba	1
Jatla Siddartha	1
Jaume Balagueró	1
Jaume Collet-Serra	1
Javier Ambrossi	1
Javier Colinas	1
Scott Christian Sava	1
Jay Baruchel	1
Jay Bulger	1
Scott Waugh	1
Jarand Herdal	1
Sergio Goyri Jr.	1
James Watkins	1
James L. Brooks	1
James Lee	1
Sheena M. Joyce	1
James Marsh	1
James Mather	1
Sharon Shattuck	1
James Moll	1
Shari Springer Berman	1
James Redford	1
James Sweeney	1
Shan Hua	1
James Tovell	1
Shady Ali	1
Shadae Lamar Smith	1
Jani Lachauer	1
James Woodroffe	1
Seung-uk Jo	1
Jami	1
Jamie Babbit	1
Jamie M. Dagg	1
Jan Belcl	1
Jan Holoubek	1

Jan Komasa	1
Seth Rogen	1
Jan-Peter Horns	1
Seth Fuller	1
Janet Tobias	1
Jang Jae-hyun	1
Scot McFadyen	1
Jay Chou	1
James Hawes	1
Jay Grace	1
Jeff Chan	1
Jeff Deverett	1
Jeff Garlin	1
Jeff Margolis	1
Sam Wrench	1
Saket Chaudhary	1
Jeff Stilson	1
Jeff Tomsic	1
Ryuichi Yagi	1
Ryan Moody	1
Jeffrey C. Bell	1
Jeffrey G. Hunt	1
Jeffrey Nachmanoff	1
Jeffrey Schwarz	1
Jeffrey W. Byrd	1
Ryan Fleck	1
Jehane Noujaim	1
Jelle de Jonge	1
Jen McGowan	1
Jenna Laurenzo	1
Jennie Livingston	1
Jennifer Baichwal	1
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Jennifer Brea	1
Jennifer Kaytin Robinson	1
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Jennifer M. Kroot	1
Jennifer Morrison	1
Jennifer Peedom	1
Samit Basu	1
Jeferson De	1
Jeeva	1
Jean-Bernard Marlin	1
Sarah Kruchowski	1
Jay Lyons	1
Jay Oliva	1
Sarah Adina Smith	1
Jay Russell	1
Jay Surridge	1
Sankalp Reddy	1
Jayan Vannery	1
Jayaprakash Radhakrishnan	1
Jayaraj Rajasekharan Nair	1
Jayme Monjardim	1
Jayson Thiessen	1
Jazz Boon	1
Jean-Claude Flamand-Barny	1
Sandeep Mohan	1
Jean-Claude La Marre	1
Jean-François Blais	1

Jean-François Richet	1
Jean-Loup Felicioli	1
Jean-Marc Vallée	1
Jean-Patrick Benes	1
Jean-Pierre Dardenne	1
Jean-Pierre Devillers	1
Jean-Simon Chartier	1
Jeannie Gaffigan	1
Jeannot Szwarc	1
Jedd Wider	1
Jee-woon Kim	1
James Ivory	1
James Haslam	1
Syed Ahmed Shawki	1
Ira Sachs	1
Hugues Nancy	1
Stu Livingston	1
Hussein El Ansary	1
Stinus Morell Vithner	1
Huw Cordey	1
Hèctor Hernández Vicens	1
Iain Softley	1
Ian Barber	1
Stijn Verlinde	1
Stevie Wermers	1
Ian Kirby	1
Ian MacAllister-McDonald	1
Ian MacNaughton	1
Ian Samuels	1
Ibai Abad	1
Ibrahim Bin Mohamed	1
Icíar Bollaín	1
Steve Saint Leger	1
Ifeanyi Ikpoenyi	1
Ignacio López Escrivá	1
Igor Kovalyov	1
Ildiko Enyedi	1
Ilya Naishuller	1
Iman Brotoseno	1
Steve Carr	1
Inas El-Degheidy	1
Steve Brill	1
Indrajit Nattoji	1
Indrasis Acharya	1
Hugo Stuven	1
Hugh WIlson	1
Hubert Woroniecki	1
Holger Tappe	1
Hernán Guerschuny	1
Suzanne Coote	1
Suparn Verma	1
Hideaki Takizawa	1
Sunil Kumar Agrawal	1
Hidetaka Inazuka	1
Hikari	1
Sumit Das	1
Hiroshi Aoyama	1
Hiroshi Katagiri	1
Hirotsugu Kawasaki	1
Hiroyuki Seshita	1

Hitoshi Namba	1
Honey Trehan	1
Huang Lei	1
Hong Khaou	1
Hong Won-ki	1
Hong-seon Kim	1
Houda Benyamina	1
Houssam El-Din Mustafa	1
Sudhish Kamath	1
Hoyt Yeatman	1
Stéphane Berla	1
Hsu Chih-yen	1
Stuart Stone	1
Hua Shan	1
Huang Hsin-Yao	1
Huang Jianming	1
Inma Torrente	1
Irek Dobrowolski	1
James Franco	1
Irwin Winkler	1
J.M. Berrios	1
JJC Skillz	1
Simon Savelyev	1
Jacek Koprowicz	1
Jack Starrett	1
Jack Zagha Kababie	1
Jackie van Beek	1
Simon Gross	1
Jacob LaMendola	1
Jacob Schwab	1
Jacques Perrin	1
Jadesola Osiberu	1
Jagdeep Sidhu	1
Jaivi Dhanda	1
Jake Szymanski	1
Jaki Bradley	1
Jakob Lass	1
Jakob Verbruggen	1
Jakub Piątek	1
Shinji Takagi	1
Jamal Hill	1
Jameel Buari	1
James Bamford	1
James Barr	1
Shen Chi	1
James Brown	1
James D. Stern	1
James Dearden	1
James Foley	1
J.J. Abrams	1
J.F. Musial	1
Simon Wells	1
Ivan Andrew Payawal	1
Steve Ball	1
Isaac Florentine	1
Isaac Rentz	1
Isabel Coixet	1
Isabel Sandoval	1
Isabelle Nanty	1
Isaki Lacuesta	1

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            Isao Yukisada              1
            Ishaan Trivedi             1
             Stephen Murray            1
             Stefan Moore              1
             Srivinay Salian           1
             Spencer Williams          1
             Sophie Sartain            1
            J.C. Falcón                1
             Sonia Dauger              1
            Ivan Sen                   1
            Ivan Silvestrini           1
            Ivona Juka                 1
            Izidore K. Musallam        1
            Izu Ojukwu                 1
            Iñaki Dorronsoro           1
            J Blakeson                 1
            J. Davis                   1
            J. Lee Thompson            1
            J. Michael Long            1
             Songyos Sugmakanan        1
             Smriti Keshari            1
            Joaquín Mazón              1
            Name: title, dtype: int64
```

Most popular director Rajiv Chilaka & most popular actor Anupam Kher followed by Rupa Bhimani .Thus Rajiv & Rupa Bhimani combination movies are popular in Netflix.

In [80]:
```python
#most popular ratings
nf.groupby(by=["rating"])["title"].nunique().sort_values(ascending=False)
```

Out[80]:
```
rating
TV-MA        3207
TV-14        2160
TV-PG         863
R             799
PG-13         490
TV-Y7         334
TV-Y          307
PG            287
TV-G          220
NR             80
G              41
TV-Y7-FV        6
UR              3
NC-17           3
74 min          1
84 min          1
66 min          1
Name: title, dtype: int64
```

In [ ]:
```python
nf[]
```

In [105…
```python
l=nf.groupby(by=["cast"])["title"].nunique().sort_values(ascending=False)
l=pd.DataFrame(l).reset_index()
l.head(20)
l
```

Out[105]:

	cast	title
0	cast NA	825
1	David Attenborough	19
2	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	14
3	Samuel West	10
4	Jeff Dunham	7
...	...	...
7678	Hank Azaria, Neil Patrick Harris, Jayma Mays, ...	1
7679	Hani Salama, Basma Ahmad, Rania Yousef, Kinda ...	1
7680	Hani Furstenberg, Ishai Golan, Kirill Cernyako...	1
7681	Hanggini, Junior Roberts, Roy Sungkono, Shenin...	1
7682	Ṣọpẹ́ Dìrísù, Wunmi Mosaku, Matt Smith, Malaik...	1

7683 rows × 2 columns

In [128…
```python
l=nf.groupby(by=["release_year","type"])["title"].nunique().sort_values(ascending=Fals
l=pd.DataFrame(l).reset_index()
l
```

Out[128]:

	release_year	type	title
0	2017	Movie	767
1	2018	Movie	767
2	2016	Movie	658
3	2019	Movie	633
4	2020	Movie	517
...	...	...	...
114	1963	TV Show	1
115	1972	TV Show	1
116	1966	Movie	1
117	1985	TV Show	1
118	1925	TV Show	1

119 rows × 3 columns

In [92]:
```python
l=nf.query("type == 'Movie'").groupby(by=["release_year"])["title"].nunique().sort_val
l=pd.DataFrame(l).reset_index()
l
#l["year_20"]=l["release_year"]+20
```

Out[92]:

	release_year	title
0	2018	767
1	2017	767
2	2016	658
3	2019	633
4	2020	517
...	...	...
68	1961	1
69	1963	1
70	1966	1
71	1947	1
72	1946	1

73 rows × 2 columns

In [9]:
```python
pd.set_option('display.max_rows', None)
print(l)
```

type	release_year	
Movie	2017	767
	2018	767
	2016	658
	2019	633
	2020	517
TV Show	2020	436
Movie	2015	398
TV Show	2019	397
	2018	380
	2021	315
Movie	2021	277
TV Show	2017	265
Movie	2014	264
TV Show	2016	244
Movie	2013	225
	2012	173
TV Show	2015	162
Movie	2010	154
	2011	145
	2009	118
	2008	113
TV Show	2014	88
Movie	2006	82
	2007	74
	2005	67
TV Show	2012	64
	2013	63
Movie	2004	55
	2003	51
	2002	44
TV Show	2010	40
	2011	40
Movie	2001	40
	1997	34
TV Show	2009	34
Movie	2000	33
	1998	32
	1999	32
	1993	24
TV Show	2008	23
Movie	1995	23
	1996	21
	1992	20
	1994	20
	1990	19
	1982	17
	1991	16
	1988	16
	1989	15
TV Show	2007	14
	2006	14
	2005	13
Movie	1984	12
	1981	12
	1986	11
	1983	11
	1980	11
	1973	10
	1979	10

TV Show	2003	10
Movie	1976	9
	1985	9
TV Show	2004	9
Movie	1987	8
	1975	7
TV Show	2002	7
	1999	7
Movie	1978	7
	1977	6
	1974	6
	1971	5
TV Show	2001	5
Movie	1967	4
	1960	4
	1972	4
TV Show	1997	4
	1993	4
	2000	4
	1998	4
	1990	3
	1992	3
	1996	3
Movie	1958	3
	1962	3
	1955	3
	1945	3
	1968	3
	1944	3
	1943	3
	1954	2
TV Show	1995	2
Movie	1970	2
	1942	2
TV Show	1994	2
Movie	1969	2
TV Show	1988	2
	1986	2
Movie	1965	2
	1964	2
	1956	2
TV Show	1945	1
Movie	1966	1
	1946	1
	1947	1
	1963	1
	1961	1
TV Show	1925	1
	1946	1
	1991	1
	1963	1
	1967	1
	1972	1
	1974	1
	1977	1
	1979	1
	1981	1
	1985	1
	1989	1

```
Movie     1959                    1
Name: title, dtype: int64
```

In [77]:
```
pip install nbconvert
```

Requirement already satisfied: nbconvert in c:\users\91944\anaconda3\lib\site-package
s (6.5.4)Note: you may need to restart the kernel to use updated packages.

Requirement already satisfied: lxml in c:\users\91944\anaconda3\lib\site-packages (fr
om nbconvert) (4.9.1)
Requirement already satisfied: tinycss2 in c:\users\91944\anaconda3\lib\site-packages
(from nbconvert) (1.2.1)
Requirement already satisfied: pandocfilters>=1.4.1 in c:\users\91944\anaconda3\lib\s
ite-packages (from nbconvert) (1.5.0)
Requirement already satisfied: entrypoints>=0.2.2 in c:\users\91944\anaconda3\lib\sit
e-packages (from nbconvert) (0.4)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\91944\anaconda3\lib\site-p
ackages (from nbconvert) (2.1.1)
Requirement already satisfied: defusedxml in c:\users\91944\anaconda3\lib\site-packag
es (from nbconvert) (0.7.1)
Requirement already satisfied: bleach in c:\users\91944\anaconda3\lib\site-packages
(from nbconvert) (4.1.0)
Requirement already satisfied: jupyterlab-pygments in c:\users\91944\anaconda3\lib\si
te-packages (from nbconvert) (0.1.2)
Requirement already satisfied: nbclient>=0.5.0 in c:\users\91944\anaconda3\lib\site-p
ackages (from nbconvert) (0.5.13)
Requirement already satisfied: jinja2>=3.0 in c:\users\91944\anaconda3\lib\site-packa
ges (from nbconvert) (3.1.2)
Requirement already satisfied: traitlets>=5.0 in c:\users\91944\anaconda3\lib\site-pa
ckages (from nbconvert) (5.7.1)
Requirement already satisfied: nbformat>=5.1 in c:\users\91944\anaconda3\lib\site-pac
kages (from nbconvert) (5.7.0)
Requirement already satisfied: jupyter-core>=4.7 in c:\users\91944\anaconda3\lib\site
-packages (from nbconvert) (5.2.0)
Requirement already satisfied: pygments>=2.4.1 in c:\users\91944\anaconda3\lib\site-p
ackages (from nbconvert) (2.11.2)
Requirement already satisfied: beautifulsoup4 in c:\users\91944\anaconda3\lib\site-pa
ckages (from nbconvert) (4.11.1)
Requirement already satisfied: packaging in c:\users\91944\anaconda3\lib\site-package
s (from nbconvert) (22.0)
Requirement already satisfied: mistune<2,>=0.8.1 in c:\users\91944\anaconda3\lib\site
-packages (from nbconvert) (0.8.4)
Requirement already satisfied: pywin32>=1.0 in c:\users\91944\anaconda3\lib\site-pack
ages (from jupyter-core>=4.7->nbconvert) (305.1)
Requirement already satisfied: platformdirs>=2.5 in c:\users\91944\anaconda3\lib\site
-packages (from jupyter-core>=4.7->nbconvert) (2.5.2)
Requirement already satisfied: nest-asyncio in c:\users\91944\anaconda3\lib\site-pack
ages (from nbclient>=0.5.0->nbconvert) (1.5.6)
Requirement already satisfied: jupyter-client>=6.1.5 in c:\users\91944\anaconda3\lib
\site-packages (from nbclient>=0.5.0->nbconvert) (7.3.4)
Requirement already satisfied: fastjsonschema in c:\users\91944\anaconda3\lib\site-pa
ckages (from nbformat>=5.1->nbconvert) (2.16.2)
Requirement already satisfied: jsonschema>=2.6 in c:\users\91944\anaconda3\lib\site-p
ackages (from nbformat>=5.1->nbconvert) (4.17.3)
Requirement already satisfied: soupsieve>1.2 in c:\users\91944\anaconda3\lib\site-pac
kages (from beautifulsoup4->nbconvert) (2.3.2.post1)
Requirement already satisfied: six>=1.9.0 in c:\users\91944\anaconda3\lib\site-packag
es (from bleach->nbconvert) (1.16.0)
Requirement already satisfied: webencodings in c:\users\91944\anaconda3\lib\site-pack
ages (from bleach->nbconvert) (0.5.1)
Requirement already satisfied: pyrsistent!=0.17.0,!=0.17.1,!=0.17.2,>=0.14.0 in c:\us
ers\91944\anaconda3\lib\site-packages (from jsonschema>=2.6->nbformat>=5.1->nbconver
t) (0.18.0)
Requirement already satisfied: attrs>=17.4.0 in c:\users\91944\anaconda3\lib\site-pac
kages (from jsonschema>=2.6->nbformat>=5.1->nbconvert) (22.1.0)

```
Requirement already satisfied: pyzmq>=23.0 in c:\users\91944\anaconda3\lib\site-packa
ges (from jupyter-client>=6.1.5->nbclient>=0.5.0->nbconvert) (23.2.0)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\91944\anaconda3\lib
\site-packages (from jupyter-client>=6.1.5->nbclient>=0.5.0->nbconvert) (2.8.2)
Requirement already satisfied: tornado>=6.0 in c:\users\91944\anaconda3\lib\site-pack
ages (from jupyter-client>=6.1.5->nbclient>=0.5.0->nbconvert) (6.1)
```

In [78]:
```
jupyter nbconvert --to pdf your_notebook.ipyn
```

```
  Cell In[78], line 1
    jupyter nbconvert --to pdf your_notebook.ipyn
            ^
SyntaxError: invalid syntax
```