

main-flow-6-aman-github

August 24, 2024

```
[56]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

```
[57]: df=pd.read_csv("C:\\Users\\aman verma\\Downloads\\disney_plus_titles (1).csv")
```

```
[58]: df.head()
```

```
[58]: show_id      type      title \
0      s1      Movie      A Spark Story
1      s2      Movie      Spooky Buddies
2      s3      Movie      The Fault in Our Stars
3      s4  TV Show      Dog: Impossible
4      s5  TV Show  Spidey And His Amazing Friends

      director \
0  Jason Sterman, Leanne Dare
1      Robert Vince
2      Josh Boone
3      NaN
4      NaN

      cast      country \
0      Apton Corbin, Louis Gonzales      NaN
1  Tucker Albrizzi, Diedrich Bader, Ameko Eks Mas...  United States, Canada
2  Shailene Woodley, Ansel Elgort, Laura Dern, Sa...      United States
3      Matt Beisner      United States
4  Benjamin Valic, Lily Sanfelippo, Jakari Fraser...      United States

      date_added  release_year  rating  duration \
0  September 24, 2021      2021  TV-PG      88 min
1  September 24, 2021      2011      G      93 min
2  September 24, 2021      2014  PG-13     127 min
3  September 22, 2021      2019  TV-PG    2 Seasons
4  September 22, 2021      2021  TV-Y      1 Season
```

```

                                listed_in \
0                                Documentary
1                                Comedy, Fantasy, Kids
2                                Coming of Age, Drama, Romance
3  Animals & Nature, Docuseries, Family
4    Action-Adventure, Animation, Kids

                                description
0  Two Pixar filmmakers strive to bring their uni...
1  The puppies go on a spooky adventure through a...
2  Hazel and Gus share a love that sweeps them on...
3  Matt Beisner uses unique approaches to modifyi...
4  Spidey teams up with pals to become The Spidey...

```

```
[59]: df.describe()
```

```

[59]:      release_year
count    1368.000000
mean      2002.348684
std         22.127559
min       1928.000000
25%       1998.000000
50%       2011.000000
75%       2018.000000
max       2021.000000

```

```
[60]: df.info()
```

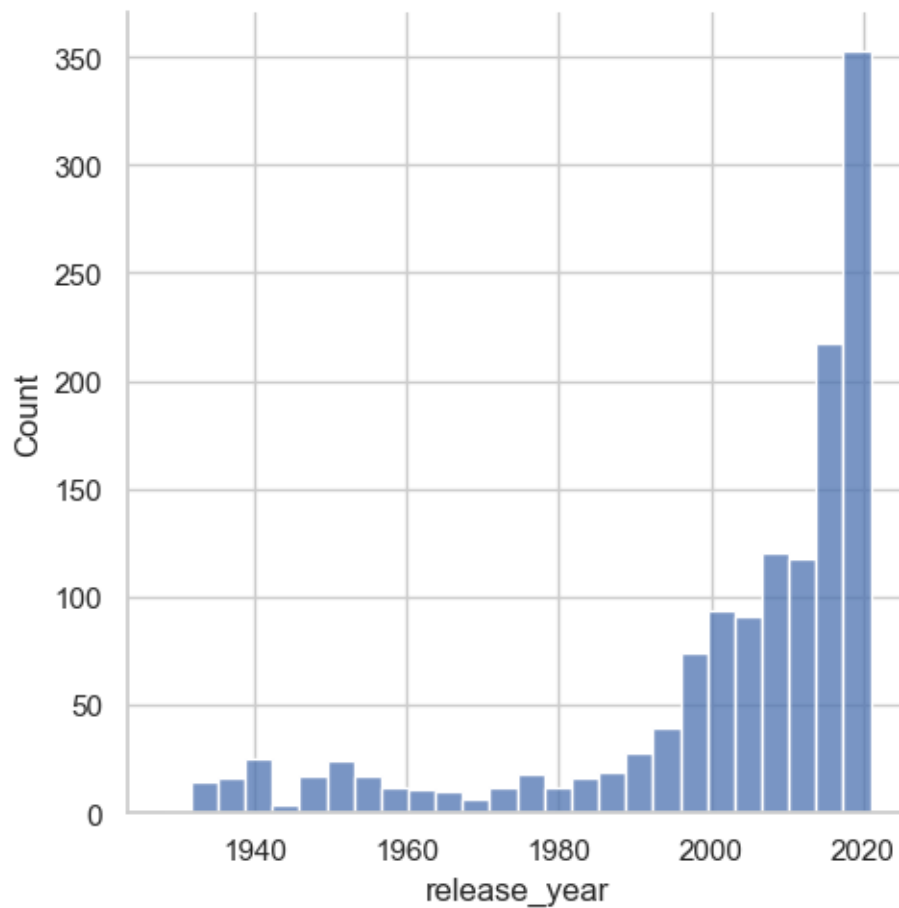
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1368 entries, 0 to 1367
Data columns (total 12 columns):
#   Column          Non-Null Count  Dtype
---  -
0   show_id         1368 non-null  object
1   type            1368 non-null  object
2   title           1368 non-null  object
3   director        928 non-null   object
4   cast            1194 non-null  object
5   country         1193 non-null  object
6   date_added      1365 non-null  object
7   release_year    1368 non-null  int64
8   rating          1366 non-null  object
9   duration        1368 non-null  object
10  listed_in       1368 non-null  object
11  description      1368 non-null  object
dtypes: int64(1), object(11)

```

memory usage: 128.4+ KB

```
[61]: sns.displot(x= 'release_year' , data = df,palette = "his");
```



```
[62]: df.shape
```

```
[62]: (1368, 12)
```

```
[63]: df.isna().sum()
```

```
[63]: show_id      0
      type        0
      title       0
      director    440
      cast        174
      country     175
      date_added   3
      release_year 0
      rating       2
```

```
duration          0
listed_in         0
description        0
dtype: int64
```

```
[64]: df.type
```

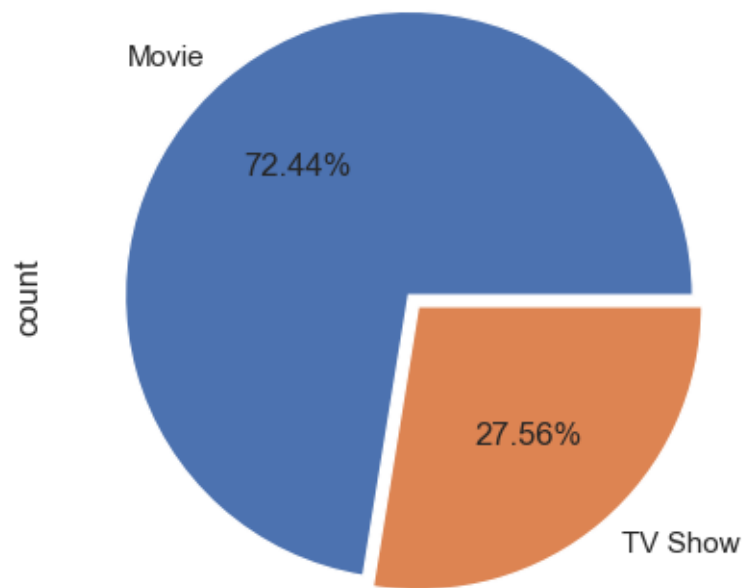
```
[64]: 0      Movie
      1      Movie
      2      Movie
      3    TV Show
      4    TV Show
      ...
     1363    Movie
     1364    Movie
     1365    TV Show
     1366    TV Show
     1367    TV Show
      Name: type, Length: 1368, dtype: object
```

```
[65]: df.type.value_counts()
```

```
[65]: type
      Movie      991
      TV Show    377
      Name: count, dtype: int64
```

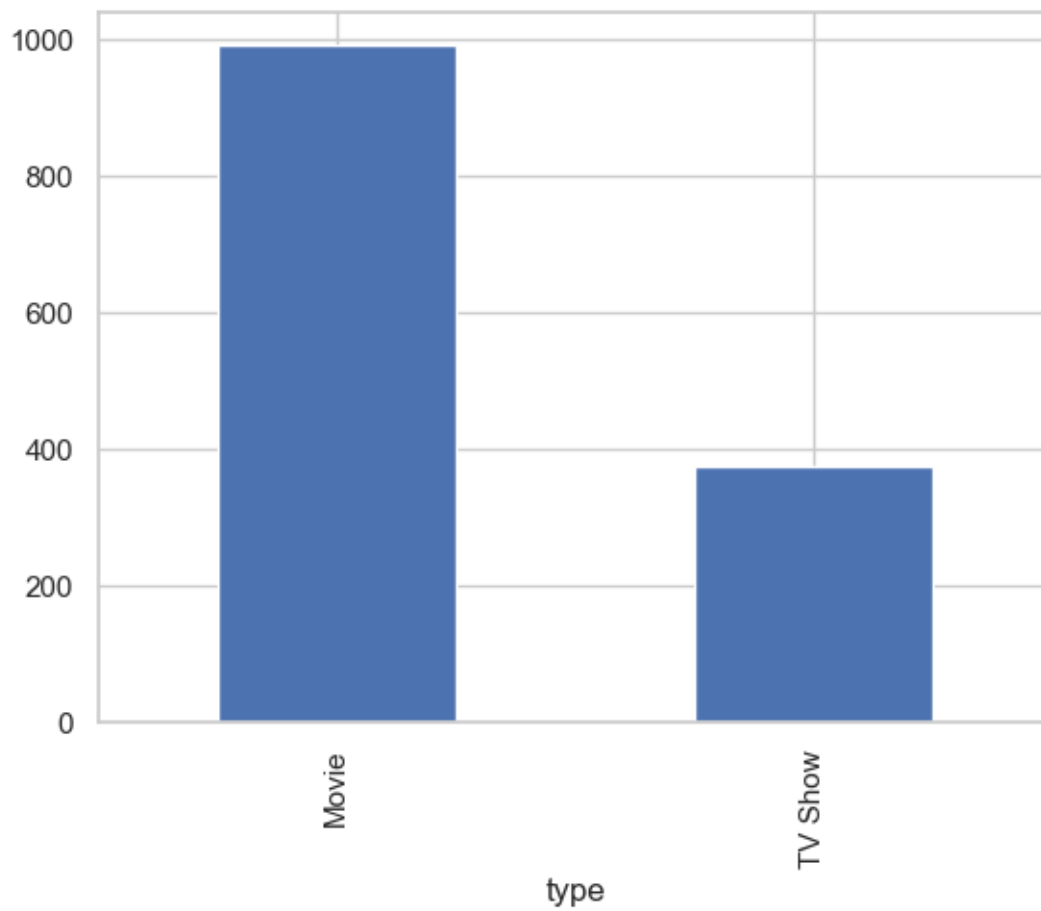
```
[66]: df.type.value_counts().plot(kind = 'pie' ,explode=[0,0.05],autopct='%1.2f%%')
```

```
[66]: <Axes: ylabel='count'>
```



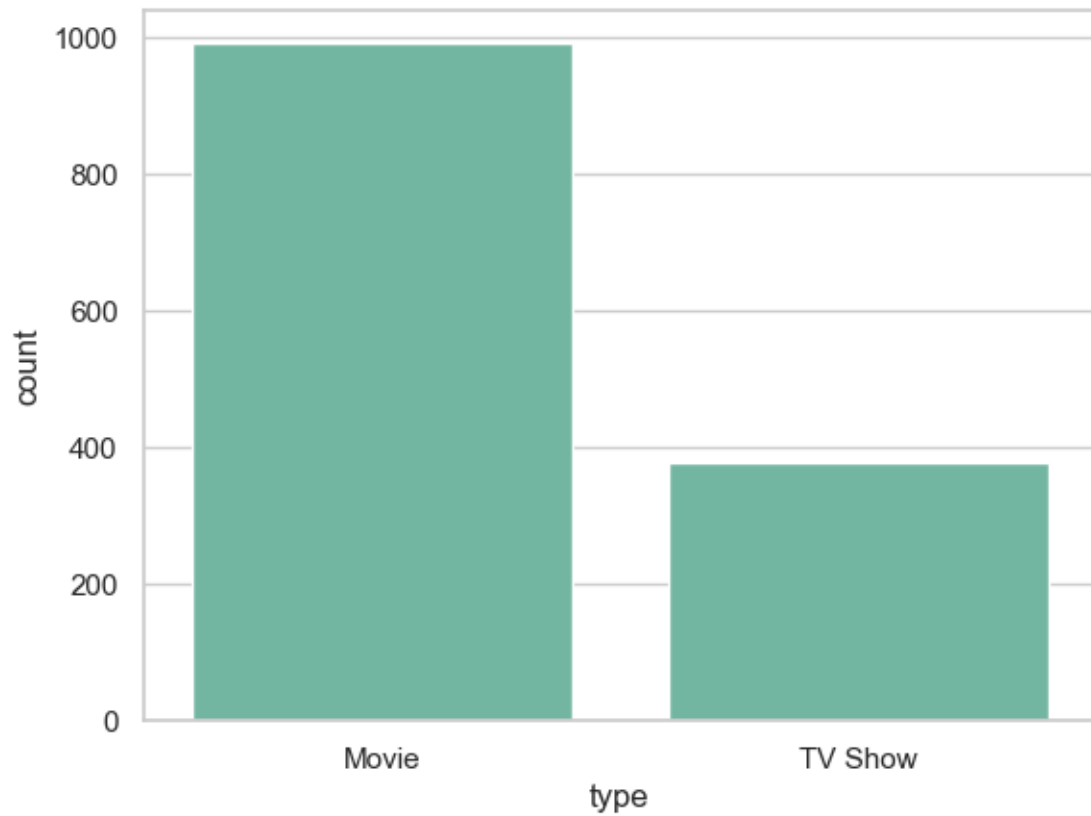
```
[67]: df.type.value_counts().plot(kind='bar')
```

```
[67]: <Axes: xlabel='type'>
```



```
[68]: sns.set_theme(style='whitegrid',palette="Set2")  
sns.countplot(x='type',data=df)
```

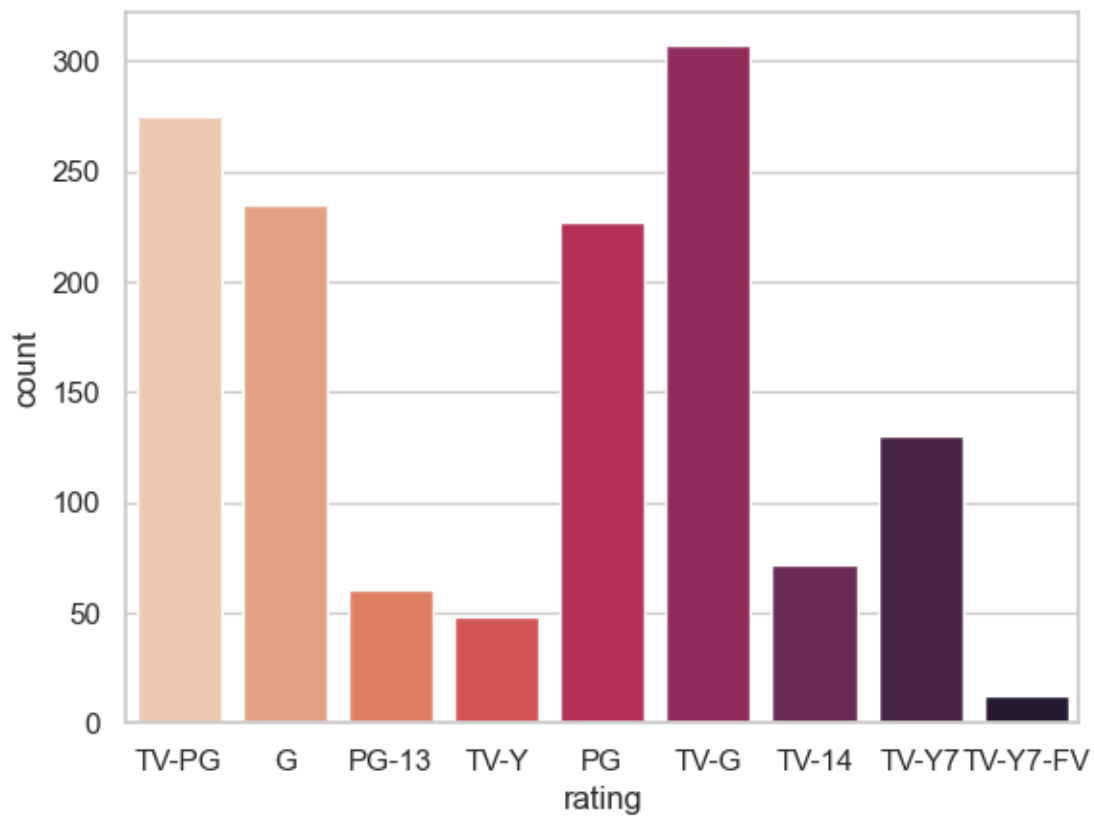
```
[68]: <Axes: xlabel='type', ylabel='count'>
```



```
[69]: import warnings
warnings.filterwarnings('ignore')
```

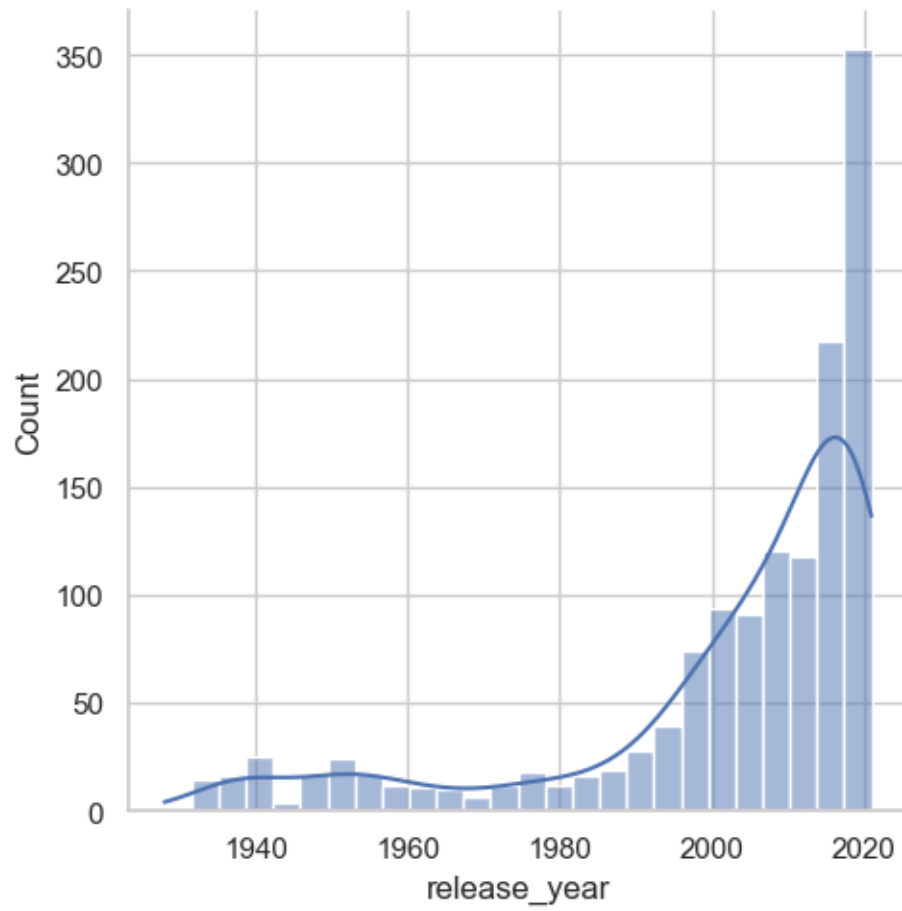
```
[70]: sns.set_theme( style='whitegrid')
sns.countplot(x = 'rating', data = df, palette = 'rocket_r')
```

```
[70]: <Axes: xlabel='rating', ylabel='count'>
```



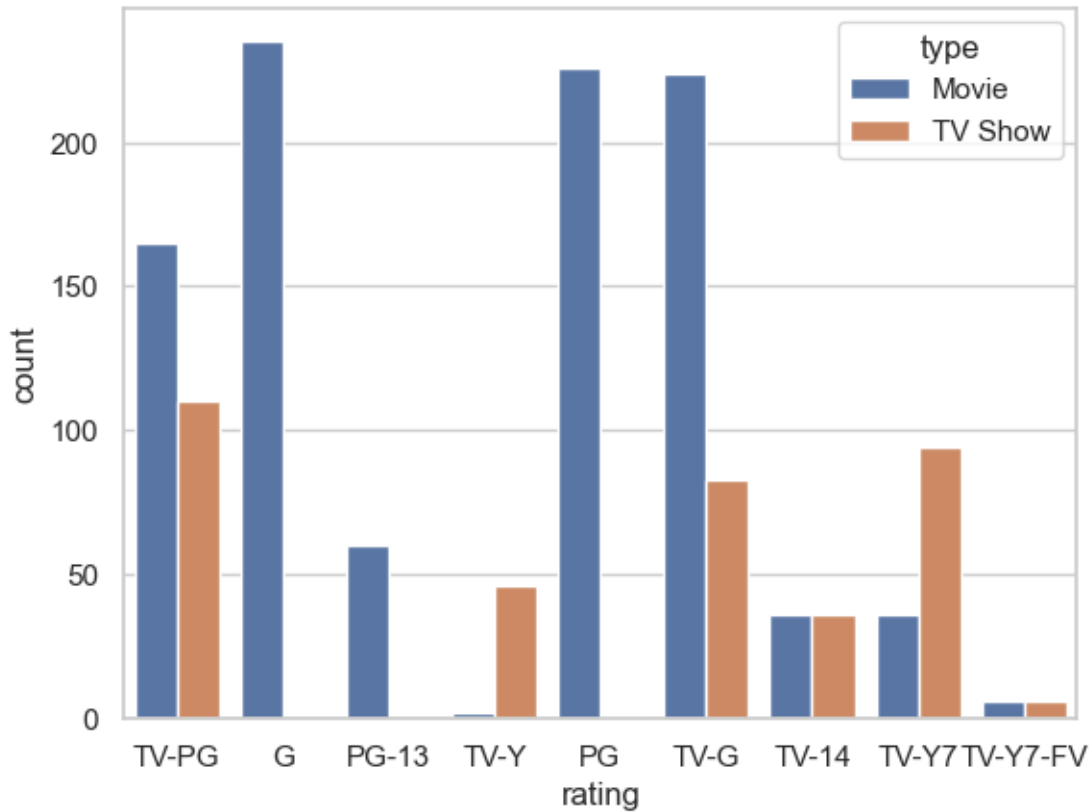
```
[71]: sns.displot(x = 'release_year', data = df, kde= True)
```

```
[71]: <seaborn.axisgrid.FacetGrid at 0x28fe1bd5d30>
```

```
[72]: sns.countplot(x = 'rating', data = df, hue = 'type')
```

```
[72]: <Axes: xlabel='rating', ylabel='count'>
```



```
[73]: df[df['type'] == 'TV Show']
```

```
[73]:
```

	show_id	type	title	director \
3	s4	TV Show	Dog: Impossible	NaN
4	s5	TV Show	Spidey And His Amazing Friends	NaN
5	s6	TV Show	Star Wars: Visions	NaN
13	s14	TV Show	Life Below Zero	NaN
14	s15	TV Show	Miraculous: Tales Of Ladybug & Cat Noir	NaN
...
1344	s1345	TV Show	X-Men: Evolution	NaN
1360	s1361	TV Show	Smart Guy	NaN
1365	s1366	TV Show	Disney Kirby Buckets	NaN
1366	s1367	TV Show	Disney Mech-X4	NaN
1367	s1368	TV Show	Imagination Movers	NaN

```
cast \
```

	cast
3	Matt Beisner
4	Benjamin Valic, Lily Sanfelippo, Jakari Fraser...
5	NaN
13	Chip Hailstone, Agnes Hailstone, Sue Aikens, A...
14	Cristina Vee, Bryce Papenbrook, Keith Silverst...

```

...
1344 Noel Fisher, Vincent Gale, Christopher Judge, ...
1360 Tahj Mowry, John Jones, Jason Weaver, Essence ...
1365 Jacob Bertrand, Mekai Curtis, Cade Sutton, Oli...
1366 Nathaniel Potvin, Raymond Cham, Kamran Lucas, ...
1367 Rich Collins, Dave Poche, Scott Durbin, Scott ...

```

```

country date_added \
3 United States September 22, 2021
4 United States September 22, 2021
5 NaN September 22, 2021
13 United States September 15, 2021
14 France, South Korea, Japan, United States September 15, 2021
...
1344 United States November 12, 2019
1360 United States October 1, 2019
1365 United States NaN
1366 Canada NaN
1367 United States NaN

```

```

release_year rating duration \
3 2019 TV-PG 2 Seasons
4 2021 TV-Y 1 Season
5 2021 TV-PG 1 Season
13 2012 TV-14 16 Seasons
14 2015 TV-Y7 1 Season
...
1344 2000 TV-Y7 4 Seasons
1360 1996 TV-G 3 Seasons
1365 2014 TV-Y7 3 Seasons
1366 2016 TV-Y7 2 Seasons
1367 2008 TV-Y 3 Seasons

```

```

listed_in \
3 Animals & Nature, Docuseries, Family
4 Action-Adventure, Animation, Kids
5 Action-Adventure, Animation, Anime
13 Action-Adventure, Animals & Nature, Docuseries
14 Action-Adventure, Animation, Fantasy
...
1344 Action-Adventure, Animation, Kids
1360 Comedy, Coming of Age, Kids
1365 Action-Adventure, Comedy, Coming of Age
1366 Action-Adventure, Comedy, Science Fiction
1367 Kids, Music

```

description

```

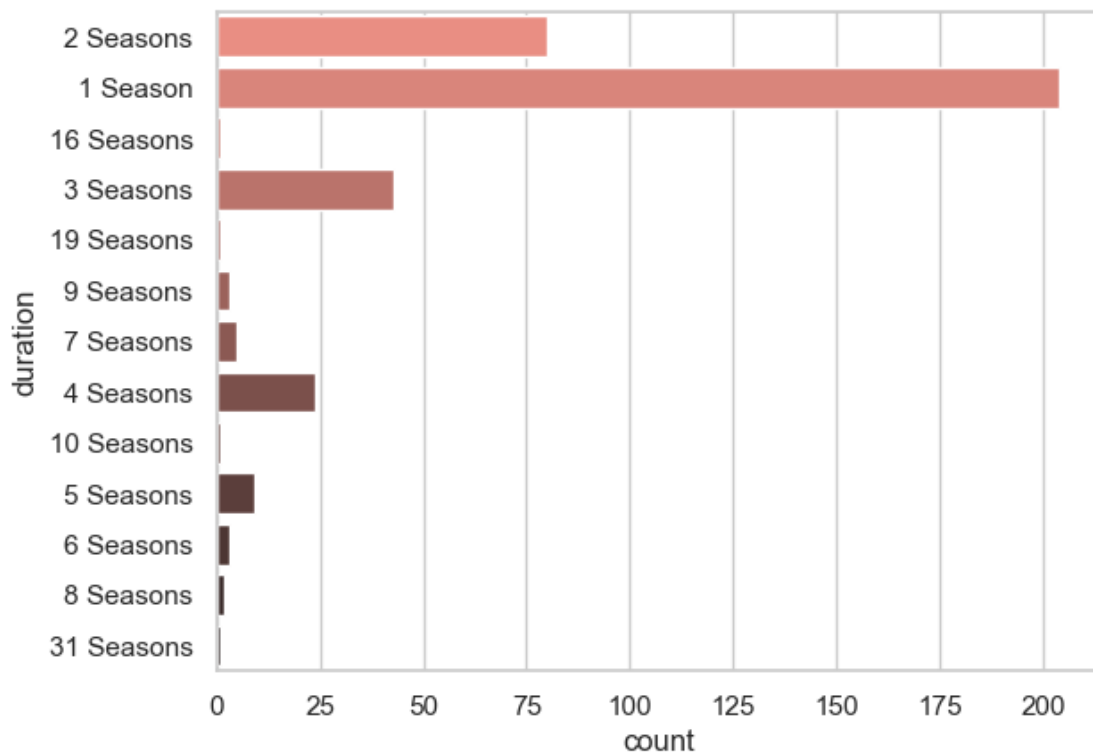
3    Matt Beisner uses unique approaches to modifyi...
4    Spidey teams up with pals to become The Spidey...
5    An animated anthology celebrating Star Wars th...
13   Experience life deep in Alaska where the prima...
14   Superheroes Ladybug and Cat Noir protect the c...
...
1344 X-Men: Evolution features the team as teenager...
1360 A genius tries to fit in as a high school soph...
1365 Welcome to Kirby's world! It's rude and sketchy.
1366 Ryan discovers his ability to control a giant ...
1367 Rock out with the Imagination Movers, Disney J...

```

[377 rows x 12 columns]

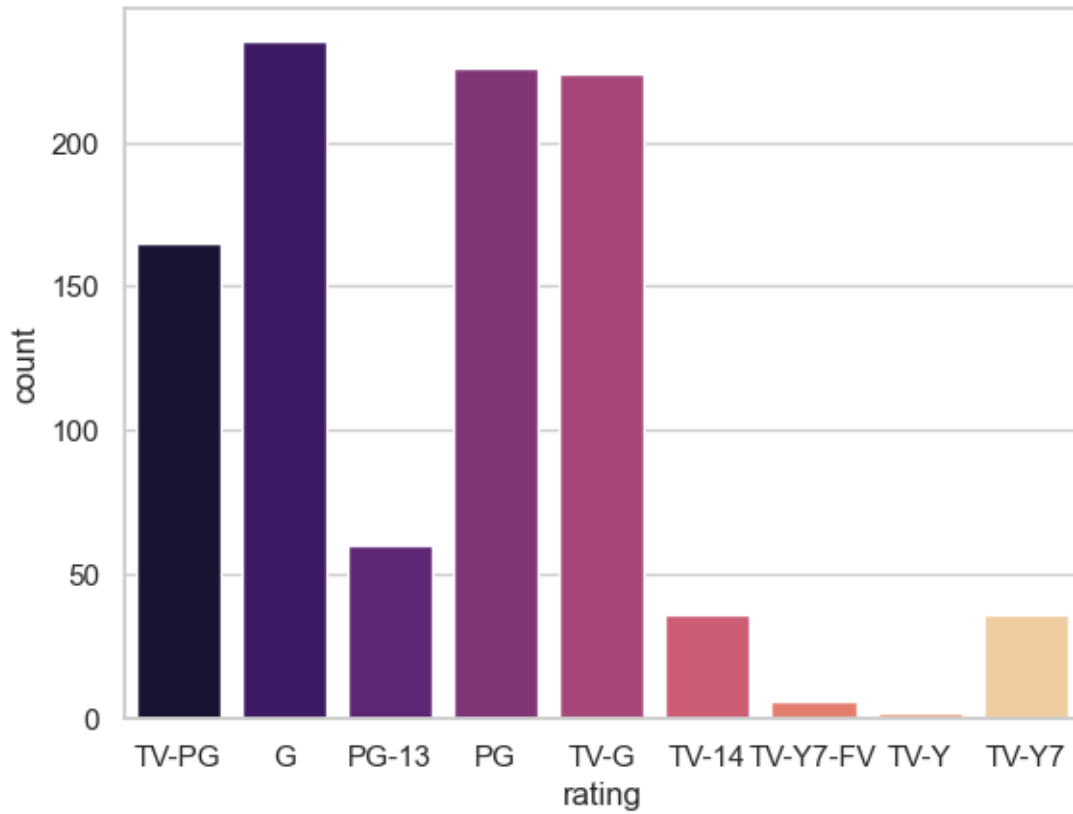
```
[74]: sns.countplot(y = 'duration', data = df[df['type'] == 'TV Show'], palette = 'dark:salmon_r')
```

[74]: <Axes: xlabel='count', ylabel='duration'>



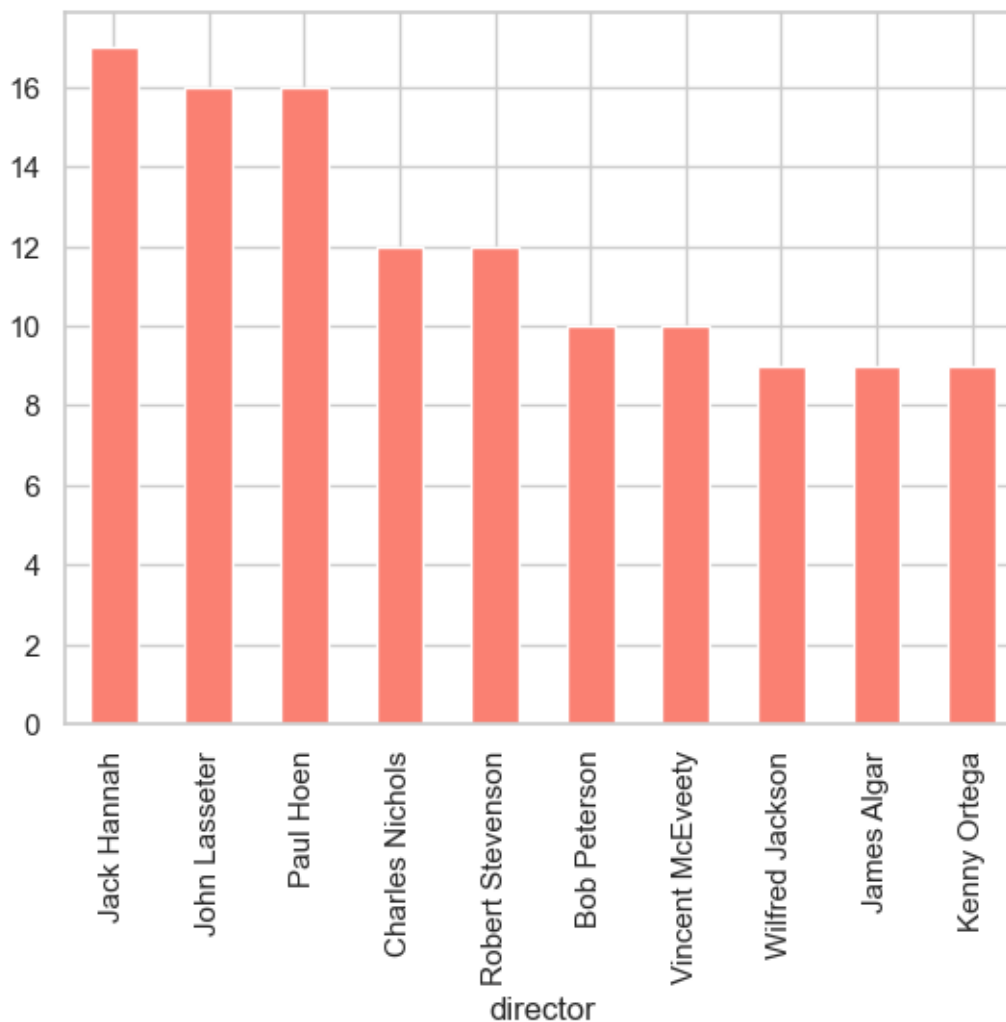
```
[75]: sns.countplot(x = 'rating', data = df[df['type'] == 'Movie'], palette = 'magma')
```

[75]: <Axes: xlabel='rating', ylabel='count'>



```
[76]: df[df['type'] == 'Movie'].director.value_counts()[:10].plot(kind = 'bar', color_
      ↪= 'salmon')
```

```
[76]: <Axes: xlabel='director'>
```



```
[77]: old = df[df['type'] == 'Movie'].sort_values('release_year')
      old[['title', 'release_year']][:10]
```

```
[77]:
```

	title	release_year
1146	Steamboat Willie	1928
1104	Santa's Workshop	1932
819	Flowers and Trees	1932
662	Babes in the Woods	1932
1345	Ye Olden Days	1933
1288	Three Little Pigs	1933
1243	The Pied Piper	1933
848	Grasshopper and the Ants	1934
1282	The Wise Little Hen	1934
1180	The Big Bad Wolf	1934

[]: