

# Netflix Film & TV Titles

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# Background

This dataset consists of 8,807 rows and 12 columns. The dataset involves every Netflix Film and TV Title. The Columns are the following: Show, Type, Title, Director, Cast, Country, Date Added, Release Year, Rating, Duration, Listed In, and Description. This data set was created October 18th, 2021, and it gets updated quarterly. Netflix has 8,807 titles streaming from *Dick Johnson is Dead* to *Zubaan*.

show_id	type		title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town t...
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabl...	NaN	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To protect his family from a powerful drug lor...
3	s4	TV Show	Jailbirds New Orleans	NaN		NaN	September 24, 2021	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down amo...
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV ...	In a city of coaching centers known to train l...
...	...	...	...	...	...	...	...	...	...	...	...	...
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	November 20, 2019	2007	R	158 min	Cult Movies, Dramas, Thrillers	A political cartoonist, a crime reporter and a...
8803	s8804	TV Show	Zombie Dumb	NaN		NaN	July 1, 2019	2018	TV-Y7	2 Seasons	Kids' TV, Korean TV Shows, TV Comedies	While living alone in a spooky town, a young g...
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	2009	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	2006	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero...
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	2015	TV-14	111 min	Dramas, International Movies, Music & ...	A scrappy but poor boy worms his way into a ...

# Columns

show\_id – how many titles there are in total

type- is the title a movie or a tv show

title- tv show/movie title

director- tv show/movie director

cast- tv show/movie cast

country- where the tv show/movies were filmed

date\_added- date added on Netflix

release\_year- the year the tv shows/movies were released

rating- tv show/movie rating (eg. PG, PG-13, R, TV-14, TV-MA, TV-Y7)

duration- how long the tv shows/movies last (eg. minutes or seasons)

listed\_in- what genre is each tv show/movie under

description- what the tv show/movie is about

# Observations/Questions

- There are 8,807 titles/columns
- Some columns have NaN which signify there is no information input for that column.
- There are many movies/tv shows that were filmed outside of The United States.
- How many titles are movies?
- How many are tv shows?
- How many movies/tv shows share similar release years?
- What year has the most movies/shows released?

# The First 10 Columns

netflix_df.head(10)													
	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description	
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...	
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalan...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town t...	
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To protect his family from a powerful drug lor...	
3	s4	TV Show	Jailbirds New Orleans	NaN	NaN	NaN	September 24, 2021	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down amo...	
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV ...	In a city of coaching centers known to train l...	
5	s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, H...	NaN	September 24, 2021	2021	TV-MA	1 Season	TV Dramas, TV Horror, TV Mysteries	The arrival of a charismatic young priest brin...	
6	s7	Movie	My Little Pony: A New Generation	Robert Cullen, José Luis Ucha	Vanessa Hudgens, Kimiko Glenn, James Marsden, ...	NaN	September 24, 2021	2021	PG	91 min	Children & Family Movies	Equestria's divided. But a bright-eyed hero be...	
7	s8	Movie	Sankofa	Haile Gerima	Kofi Ghanaba, Oyafunmike Ogunlano, Alexandra D...	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min	Dramas, Independent Movies, International Movies	On a photo shoot in Ghana, an American model s...	
8	s9	TV Show	The Great British Baking Show	Andy Devonshire	Mel Giedroyc, Sue Perkins, Mary Berry, Paul Ho...	United Kingdom	September 24, 2021	2021	TV-14	9 Seasons	British TV Shows, Reality TV	A talented batch of amateur bakers face off in...	
9	s10	Movie	The Starling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd, Kevin Kline, T...	United States	September 24, 2021	2021	PG-13	104 min	Comedies, Dramas	A woman adjusting to life after a loss contend...	

# The Last 10 Columns

```
netflix_df.tail(10)
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
8797	s8798	TV Show	Zak Storm	NaN	Michael Johnston, Jessica Gee-George, Christin...	United States, France, South Korea, Indonesia	September 13, 2018	2016	TV-Y7	3 Seasons	Kids' TV	Teen surfer Zak Storm is mysteriously transpor...
8798	s8799	Movie	Zed Plus	Chandra Prakash Dwivedi	Adil Hussain, Mona Singh, K.K. Raina, Sanjay M...	India	December 31, 2019	2014	TV-MA	131 min	Comedies, Dramas, International Movies	A philandering small-town mechanic's political...
8799	s8800	Movie	Zenda	Avadhoot Gupte	Santosh Juvekar, Siddharth Chandekar, Sachit P...	India	February 15, 2018	2009	TV-14	120 min	Dramas, International Movies	A change in the leadership of a political part...
8800	s8801	TV Show	Zindagi Gulzar Hai	NaN	Sanam Saeed, Fawad Khan, Ayesha Omer, Mehreen ...	Pakistan	December 15, 2016	2012	TV-PG	1 Season	International TV Shows, Romantic TV Shows, TV ...	Strong-willed, middle-class Kashaf and carefre...
8801	s8802	Movie	Zinzana	Majid Al Ansari	Ali Suliman, Saleh Bakri, Yasa, Ali Al-Jabri, ...	United Arab Emirates, Jordan	March 9, 2016	2015	TV-MA	96 min	Dramas, International Movies, Thrillers	Recovering alcoholic Talal wakes up inside a s...
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	November 20, 2019	2007	R	158 min	Cult Movies, Dramas, Thrillers	A political cartoonist, a crime reporter and a...
8803	s8804	TV Show	Zombie Dumb	NaN	NaN	NaN	July 1, 2019	2018	TV-Y7	2 Seasons	Kids' TV, Korean TV Shows, TV Comedies	While living alone in a spooky town, a young g...
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	2009	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	2006	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero...
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	2015	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

# 10 Random Columns

netflix_df.sample(10)												
	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
7555	s7556	Movie	Nails	Dennis Bartok	Leah McNamara, Shauna Macdonald, Steve Wall, R...	Ireland	March 10, 2018	2017	TV-MA	85 min	Horror Movies	Recently paralyzed in a devastating car accide...
2088	s2089	Movie	Unknown Origins	David Galán Galindo	Javier Rey, Verónica Echegui, Brays Efe, Anton...	Spain	August 28, 2020	2020	TV-MA	97 min	International Movies, Thrillers	A very chiseled but somber detective must find...
3714	s3715	Movie	Unbroken	Svati Chakravarty Bhatkal	NaN	India	June 26, 2019	2019	TV-14	109 min	Documentaries, International Movies	After the brutal murders of their loved ones, ...
6693	s6694	TV Show	Encerrados	NaN	Luis Machín, Maria Merlino, Fabián Vena, Ana C...	NaN	June 18, 2018	2018	TV-MA	1 Season	International TV Shows, Spanish-Language TV Sh...	This fictional series tells the stories of wha...
6276	s6277	TV Show	Behzat Ç.	NaN	Erdal Beşikçioğlu, Fatih Artman, İnanç Konukçu...	Turkey	May 19, 2017	2010	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Dramas	An Ankara homicide detective with a dark perso...
1455	s1456	TV Show	Headspace Guide to Meditation	NaN	Andy Puddicombe	United States	January 1, 2021	2021	TV-G	1 Season	Docuseries, Science & Nature TV	Headspace takes a friendly, animated look at t...
6238	s6239	Movie	Barbie Star Light Adventure	Andrew Tan, Michael Goguen	Erica Lindbeck, Robbie Daymond, Kimberly Woods...	United States	October 1, 2017	2016	TV-Y	79 min	Children & Family Movies	A hoverboard-riding princess of the cosmos, Ba...
3476	s3477	Movie	The Squid and the Whale	Noah Baumbach	Jeff Daniels, Laura Linney, Jesse Eisenberg, O...	United States	October 1, 2019	2005	R	81 min	Comedies, Dramas, Independent Movies	This insightful drama looks at the crumbling m...
4075	s4076	Movie	My Ex & Whys	Cathy Garcia-Molina	Liza Soberano, Enrique Gil, Joey Marquez, Cai ...	Philippines	February 27, 2019	2017	TV-14	121 min	Comedies, Dramas, International Movies	Popular blogger Cali is hired for a marketing ...
2685	s2686	Movie	World Famous Lover	Kranthi Madhav	Vijay Deverakonda, Raashi Khanna, Aishwarya Ra...	India	April 15, 2020	2020	TV-MA	147 min	Dramas, International Movies, Romantic Movies	When his frustrated girlfriend decides to leav...

# Answer

In order to find how many of these titles are movies/tv shows, I use the code [value\_counts] and it says there are 6,131 Movies and 2,676 TV shows. I expected more movies than tv shows, my expectation was met.

The same was done in order to find similarities for release year. 2018 is the most common year (1,147) for many shows/movies to be released, whereas the 1900s were less common.

```
title_counts = df['type'].value_counts()
```

```
print (title_counts)
```

```
type
Movie      6131
TV Show    2676
Name: count, dtype: int64
```

```
year_counts = df['release_year'].value_counts()
```

```
print (year_counts)
```

```
release_year
2018      1147
2017      1032
2019      1030
2020       953
2016       902
...
1959         1
1925         1
1961         1
1947         1
1966         1
Name: count, Length: 74, dtype: int64
```



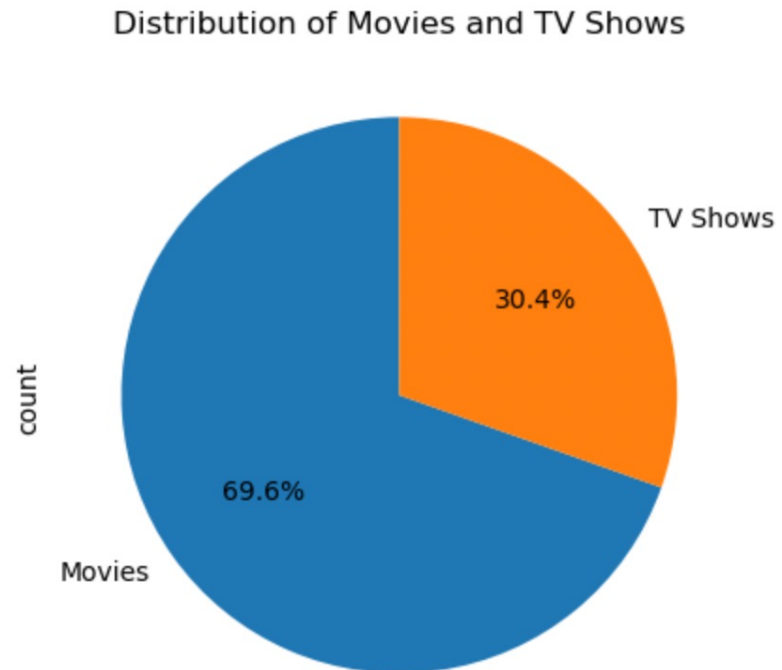
# Pie Chart

```
data = {  
    'type': ['Movies', 'TV Shows'],  
    'count': [6131, 2676]  
}
```

```
df = pd.DataFrame(data)
```

```
df.set_index('type')['count'].plot(kind='pie', autopct='%1.1f%%', startangle=90, title= "Distribution of Movies and TV Shows")
```

<Axes: title={'center': 'Distribution of Movies and TV Shows'}, ylabel='count'>



# Conclusion

When using coding and many different code names you can find the statistics of many rows. Such as, when using `[value_counts]` we were able to find release years quantity and how many tv show and movie titles there are. This could also be done for how many projects one director has or how many movies made in Spain or Turkey are available in Netflix.

# Links

<https://www.kaggle.com/datasets/shivamb/netflix-shows>

<http://localhost:8888/lab/tree/Documents/GitHub/foundations-of-data-science/assignments/Assignment%20%232%20-%20Data%20Exploration%20and%20Cleaning.ipynb>