



**Netflix!** What started in 1997 as a DVD rental service has since exploded into one of the largest entertainment and media companies.

Given the large number of movies and series available on the platform, it is a perfect opportunity to flex your exploratory data analysis skills and dive into the entertainment industry.

You work for a production company that specializes in nostalgic styles. You want to do some research on movies released in the 1990's. You'll delve into Netflix data and perform exploratory data analysis to better understand this awesome movie decade!

You have been supplied with the dataset `netflix_data.csv`, along with the following table detailing the column names and descriptions. Feel free to experiment further after submitting!

## The data

### netflix\_data.csv

Column	Description
<code>show_id</code>	The ID of the show
<code>type</code>	Type of show
<code>title</code>	Title of the show
<code>director</code>	Director of the show
<code>cast</code>	Cast of the show
<code>country</code>	Country of origin
<code>date_added</code>	Date added to Netflix
<code>release_year</code>	Year of Netflix release
<code>duration</code>	Duration of the show in minutes
<code>description</code>	Description of the show
<code>genre</code>	Show genre

```
# Importing pandas and matplotlib
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

```
# Read in the Netflix CSV as a DataFrame
netflix_df = pd.read_csv("netflix_data.csv")
#netflix_df.isnull().sum()
#netflix_df.info()
netflix_df
```

...	↑↓	...	↑↓	...	↑↓	title	...	↑↓	director	...	↑↓	cast
	0	s2		Movie	7:19				Jorge Michel Grau			Demían Bichir, Héctor Bonilla, Oscar S
	1	s3		Movie	23:59				Gilbert Chan			Tedd Chan, Stella Chung, Henley Hii, I
	2	s4		Movie	9				Shane Acker			Elijah Wood, John C. Reilly, Jennifer C
	3	s5		Movie	21				Robert Luketic			Jim Sturgess, Kevin Spacey, Kate Bosw
	4	s6		TV Show	46				Serdar Akar			Erdal Beşikçioğlu, Yasemin Allen, Meli
	5	s7		Movie	122				Yasir Al Yasiri			Amina Khalil, Ahmed Dawood, Tarek L
	6	s8		Movie	187				Kevin Reynolds			Samuel L. Jackson, John Heard, Kelly
	7	s9		Movie	706				Shravan Kumar			Divya Dutta, Atul Kulkarni, Mohan Ag
	8	s10		Movie	1920				Vikram Bhatt			Rajneesh Duggal, Adah Sharma, Indro
	9	s11		Movie	1922				Zak Hilditch			Thomas Jane, Molly Parker, Dylan Sch
	10	s14		Movie	2,215				Nottapon Boonprakob			Artiware Kongmalai
	11	s15		Movie	3022				John Suits			Omar Epps, Kate Walsh, Miranda Cos
	12	s16		Movie	Oct-01				Kunle Afolayan			Sadiq Daba, David Bailie, Kayode Ola
	13	s18		Movie	22-Jul				Paul Greengrass			Anders Danielsen Lie, Jon Øigarden, J
	14	s19		Movie	15-Aug				Swapnaneel Jayakar			Rahul Pethe, Mrunmayee Deshpande,
	15	s21		Movie	Kuch Bheege Alfaaz				Onir			Geetanjali Thapa, Zain Khan Durrani,

Rows: 4,812

[Expand Table](#)

```
# Start coding here! Use as many cells as you like
netflix_90 = netflix_df[(netflix_df['release_year'] >= 1990) & (netflix_df['release_year'] < 2000)]
print(netflix_90['duration'].describe())
duration = int(netflix_90['duration'].mode()[0]) # Convertir a entero
print(duration)
```

```
count    184.000000
mean     114.500000
std       34.163221
min        1.000000
25%       94.000000
50%      108.000000
75%      136.000000
max      195.000000
Name: duration, dtype: float64
94
```

```
short_action_movies = netflix_90.query("genre == 'Action' and duration < 90")
print(short_action_movies)
short_movie_count = len(short_action_movies)
```

```
show_id  type  ...  description  genre
1288    s2039  Movie  ...  Fifteen years after the Second Impact, apathet...  Action
1698    s2708  Movie  ...  A pugilist from Shantung struggles to rise to ...  Action
2328    s3718  Movie  ...  An officer killed on the job returns to Earth ...  Action
2993    s4787  Movie  ...  Air marshal John Cutter must stop notorious te...  Action
3297    s5299  Movie  ...  During a visit to the Bronx to help out at his...  Action
3806    s6114  Movie  ...  While working at a family friend's business, a...  Action
3943    s6330  Movie  ...  Seele orders an all-out attack on NERV, aiming...  Action
```

[7 rows x 11 columns]