

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

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

```
# Start coding here! Use as many cells as you like
```

```
netflix_subset = netflix_df[netflix_df["type"]=="Movie"]
```

```
subset = netflix_subset[(netflix_subset["release_year"]>=1990)]
```

```
duration1 = subset[(subset["release_year"]<2000)]
```

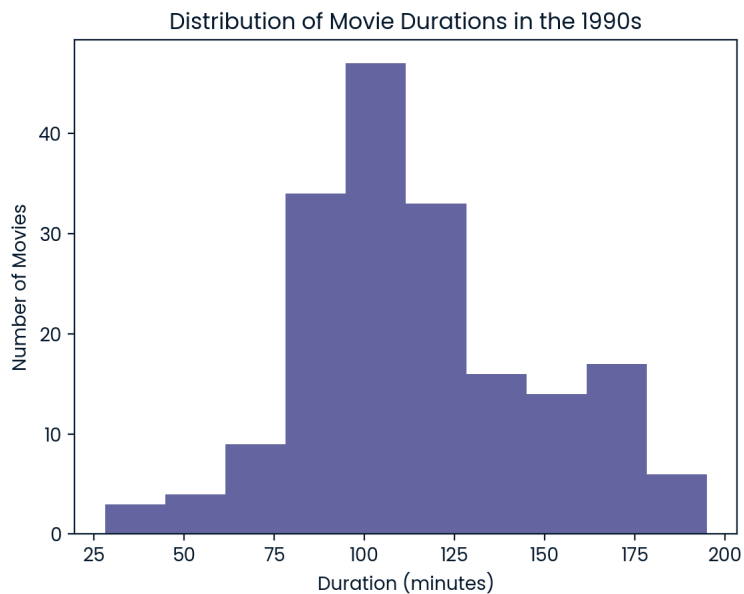
duration1

...	↑↓	...	↑↓	...	↑↓	title	...	↑↓	director	...	↑↓	cast
6		s8		Movie		187			Kevin Reynolds			Samuel L. Jackson, John Hea
118		s167		Movie		A Dangerous Woman			Stephen Gyllenhaal			Debra Winger, Barbara Hersh
145		s211		Movie		A Night at the Roxbury			John Fortenberry			Will Ferrell, Chris Kattan, Dan
167		s239		Movie		A Thin Line Between Love & Hate			Martin Lawrence			Martin Lawrence, Lynn Whitfi
194		s274		Movie		Aashik Awara			Umesh Mehra			Saif Ali Khan, Mamta Kulkarn
240		s344		Movie		Agneepath			Mukul Anand			Amitabh Bachchan, Mithun C
315		s456		Movie		American Beauty			Sam Mendes			Kevin Spacey, Annette Bening
320		s467		Movie		American History X			Tony Kaye			Edward Norton, Edward Furlo
333		s487		Movie		An American Tail: Fievel Goes West			Phil Nibbelink, Simon Wells			Philip Glasser, James Stewart
334		s488		Movie		An American Tail: The Mystery of the Night ...			Larry Latham			Thomas Dekker, Lacey Chabe
352		s508		Movie		Andaz Apna Apna			Rajkumar Santoshi			Aamir Khan, Salman Khan, R
410		s593		Movie		As Good as It Gets			James L. Brooks			Jack Nicholson, Helen Hunt, C
428		s624		Movie		Auschwitz: Blueprints of Genocide			Mike Rossiter			Roy Marsden
430		s627		Movie		Austin Powers: International Man of Mystery			Jay Roach			Mike Myers, Elizabeth Hurley
431		s628		Movie		Austin Powers: The Spy Who Shagged Me			Jay Roach			Mike Myers, Heather Graham
468		s688		Movie		Bad Boys			Michael Bay			Will Smith, Martin Lawrence, T

Rows: 183

```
plt.hist(duration1["duration"])
plt.title('Distribution of Movie Durations in the 1990s')
plt.xlabel('Duration (minutes)')
plt.ylabel('Number of Movies')
plt.show()
```

duration = 100



short_movie_count = 0

action_movies_1990s = duration1[duration1["genre"] == "Action"]

```
for label, row in action_movies_1990s.iterrows():
    if row["duration"] < 90:
        short_movie_count = short_movie_count + 1
    else:
        short_movie_count = short_movie_count
```

short_movie_count

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