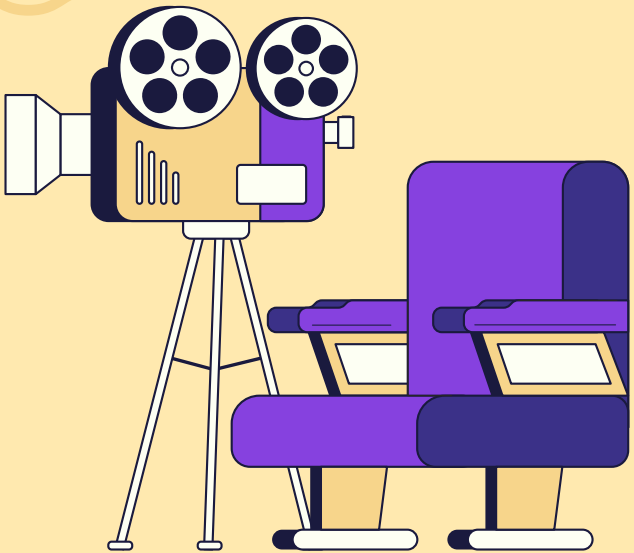

Moviz

Data Visualization project

Adib Menchali
Simone De Benedictis
Theo Ramond

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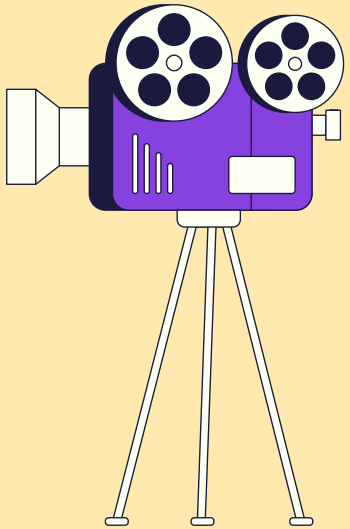
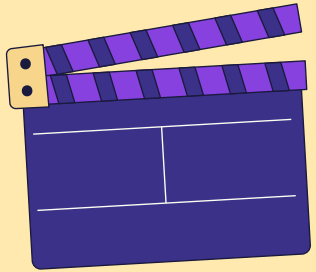
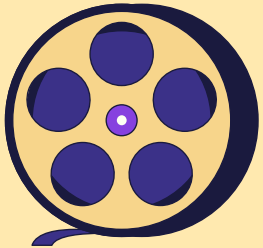
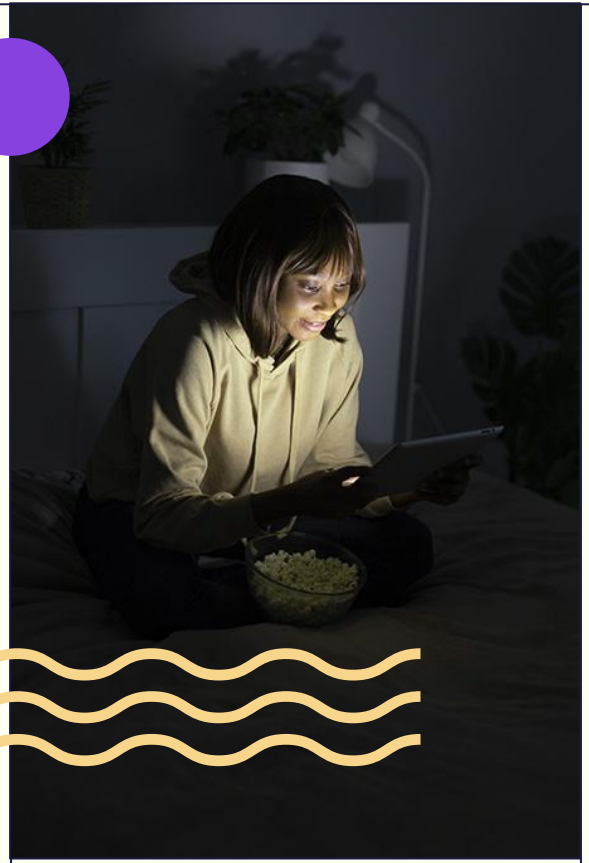


01

The Data







Generating the dataset

Extracting data from the **TMDb API.**

Title: *The title of the movie.*
Genre*: The genre of the movie.*
Year: *The year the movie was released.*
Rating: *The rating of the movie.*
Director: *The director of the movie.*
Cast: *The cast members of the movie.*
Duration: *The duration of the movie in minutes.*
Language: *The main language of the movie.*
Country Of Origin: *The country where the movie was produced.*
Revenue*: The total revenue generated by the movie in USD.*
Budget: *The total budget for making the movie in USD.*

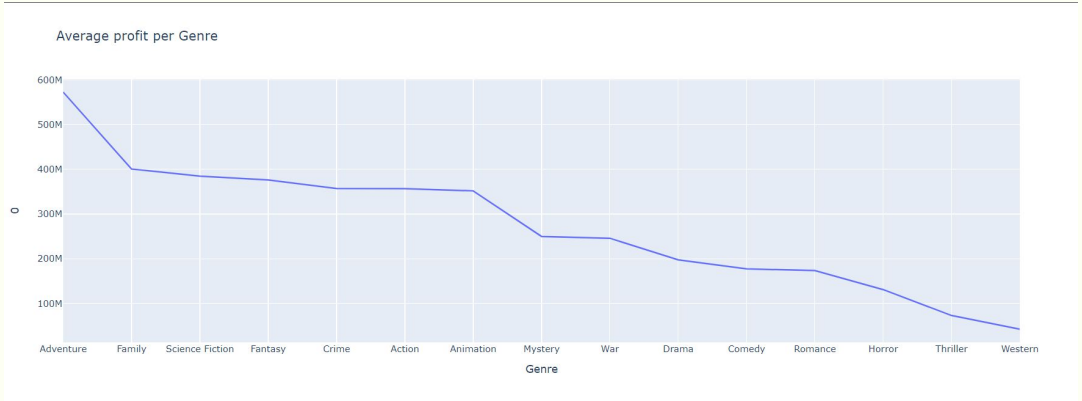
A glance at the data

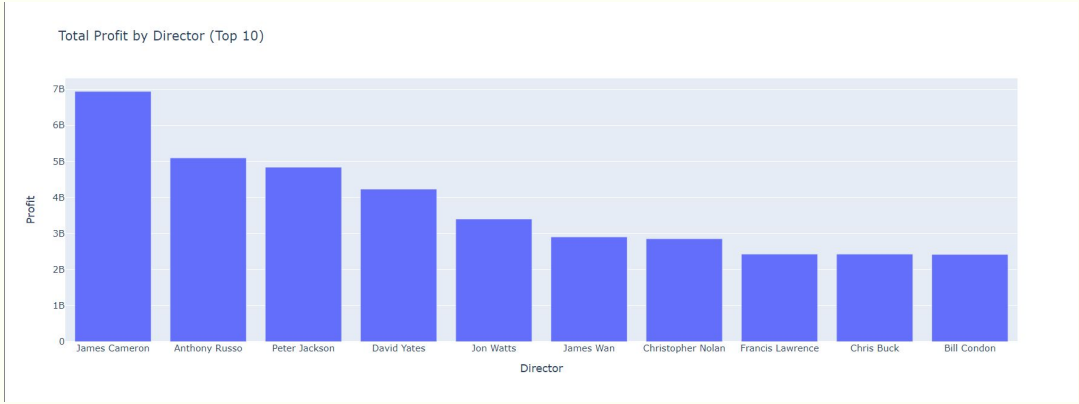
Shape: 11 Columns and 1000 rows
Dropped null values.
No Duplicates.
Dropped ***Revenue*** and ***Budget*** after graphing them since they mostly contain missing values.

	Title	Genre	Year	Rating	Director	Cast	Duration	Language	Country of Origin	Revenue	Budget
0	Avatar: The Way of Water	Science Fiction	2022.0	7.752	James Cameron	Sam Worthington, Zoe Saldaña, Sigourney Weaver...	192.0	en	United States of America	2.310416e+09	460000000.0
1	Creed III	Drama	2023.0	7.290	Michael B. Jordan	Michael B. Jordan, Tessa Thompson, Jonathan Ma...	116.0	en	United States of America	2.580000e+08	75000000.0
2	Winnie the Pooh: Blood and Honey	Horror	2023.0	5.913	Rhys Frake-Waterfield	Craig David Dowsett, Chris Cordell, Amber Doig...	84.0	en	United Kingdom	3.200000e+06	100000.0
3	Mummies	Animation	2023.0	7.167	Juan Jesús García Galocha	Óscar Barberán, Ana Esther Alborg, Luis Pérez ...	88.0	es	Spain	3.420000e+07	12300000.0
4	John Wick: Chapter 4	Action	2023.0	8.036	Chad Stahelski	Keanu Reeves, Donnie Yen, Bill Skarsgård, Ian ...	169.0	en	United States of America	2.448783e+08	90000000.0

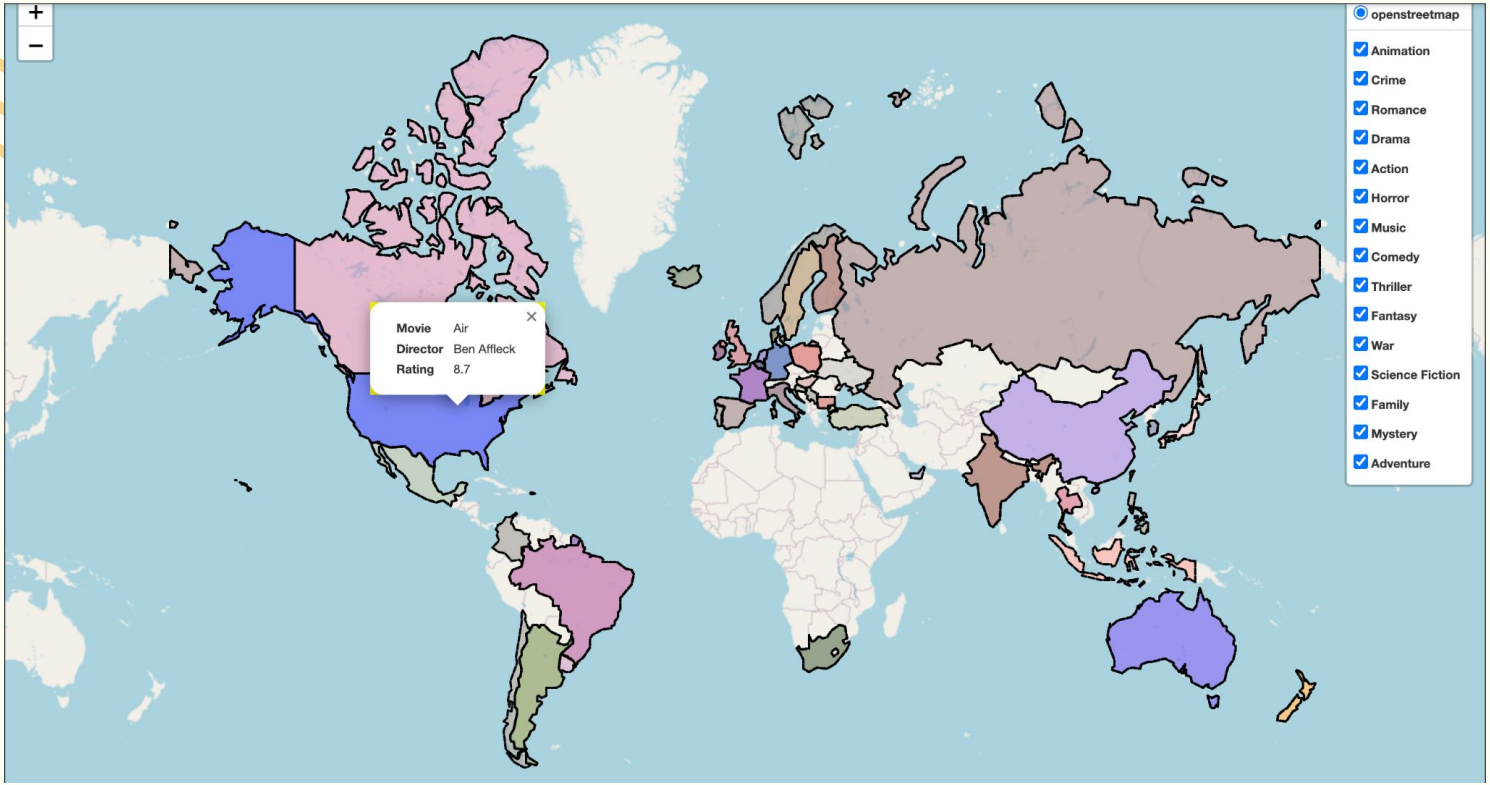
The Visualizations

Profitability Graphs

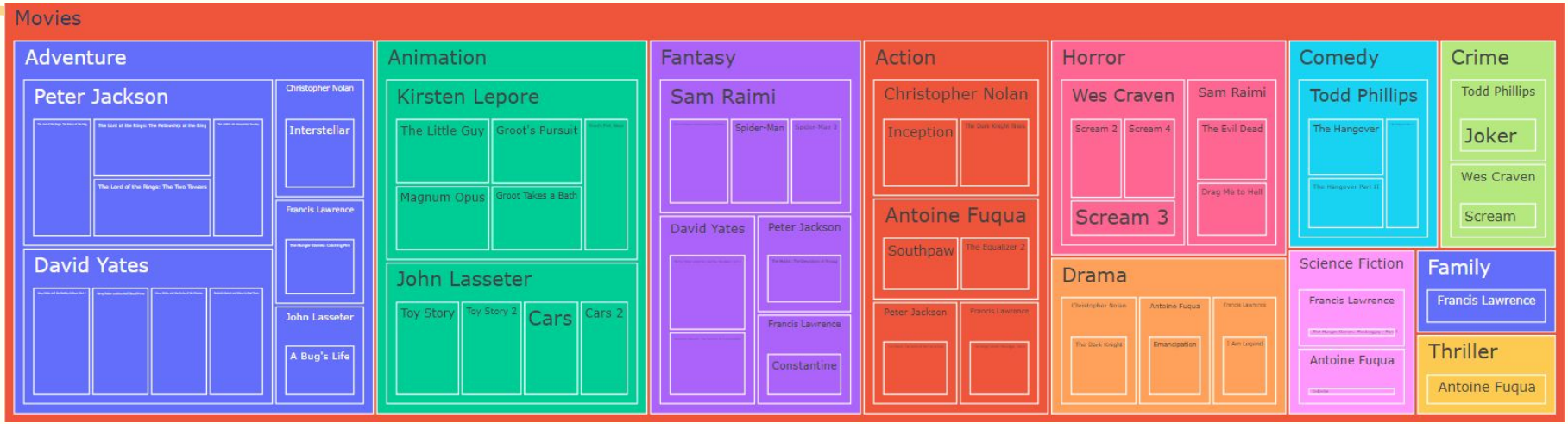




Highest rated movies per country

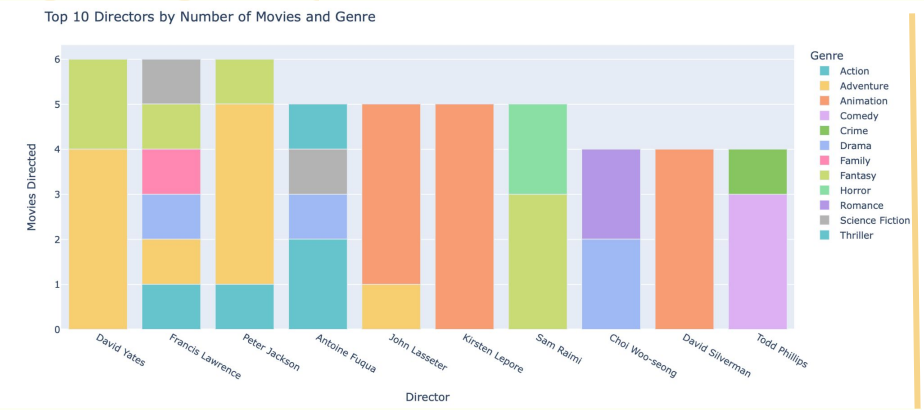


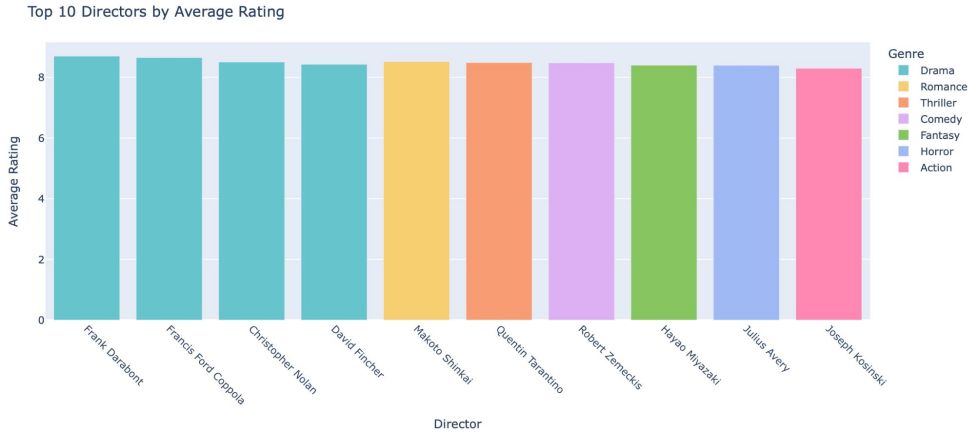
Connections between Genres and Directors



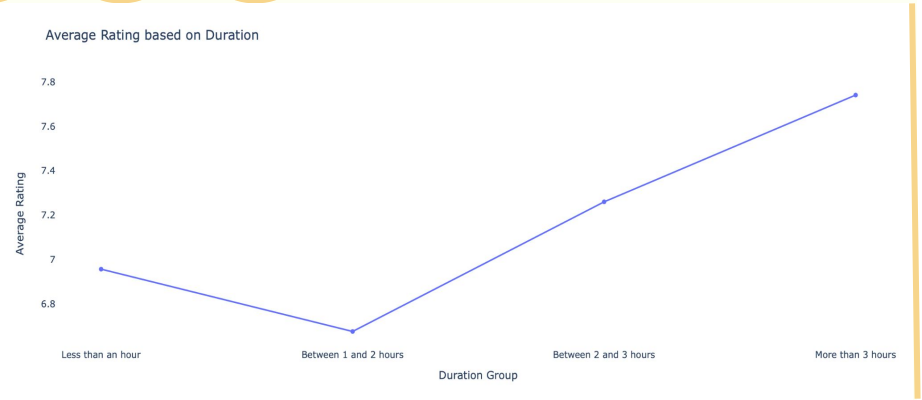
Connections between Directors and Actors

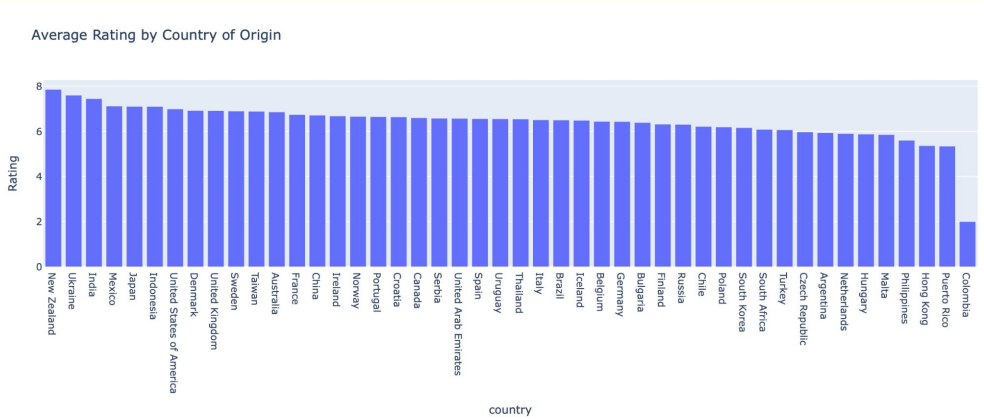
Top 10 Directors by Movies, Genre and Rating



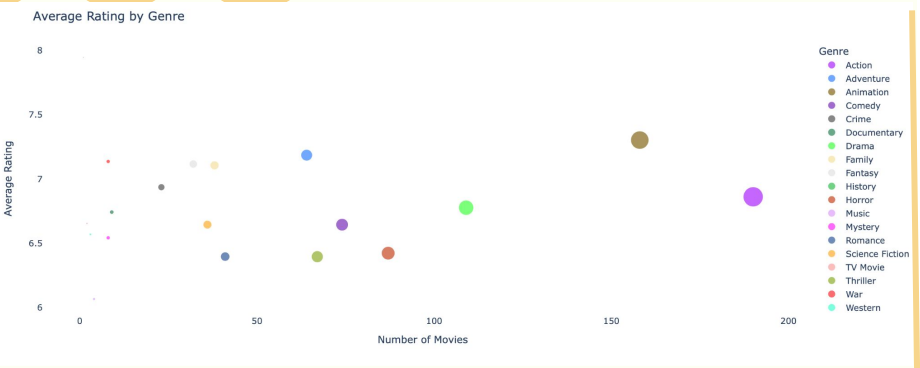


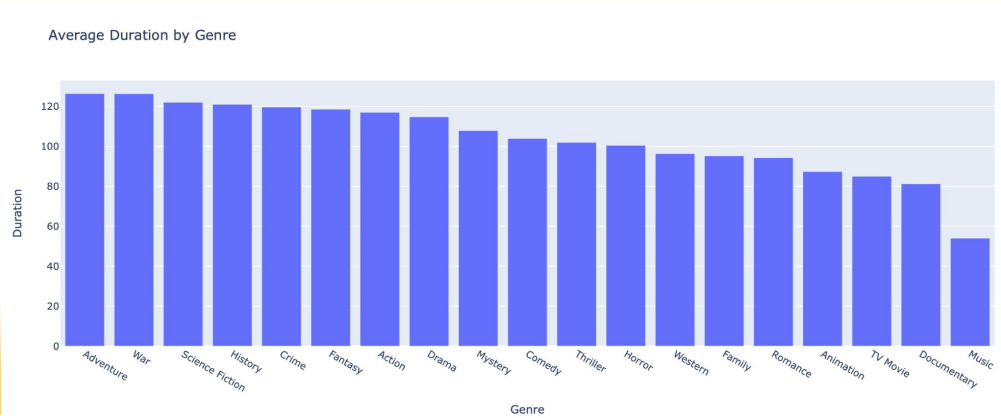
Average Rating by Duration and Country





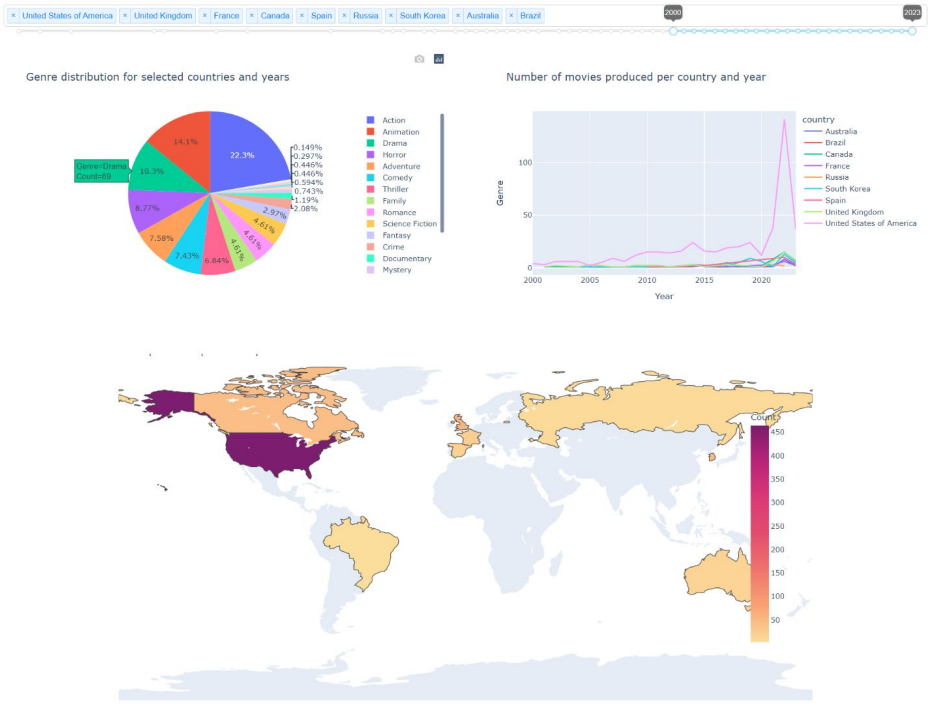
Average Rating and Duration by Genre





The Moviz App

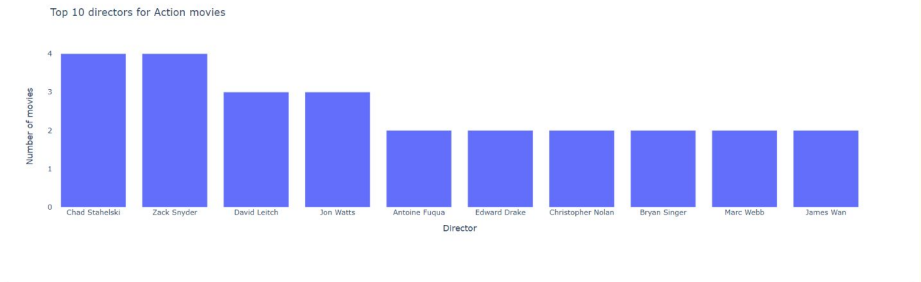
The Moviz App: Full interactivity



- The **slider** (for the years) and the **dropdown list** (for the countries) can both be adjusted to change the visualizations accordingly.
- Clicking on genres and countries filters all the visualizations.

The Moviz App

The bar charts are updated in real-time by adjusting the slider, the countries, and the genre of the movies.



The Web Page

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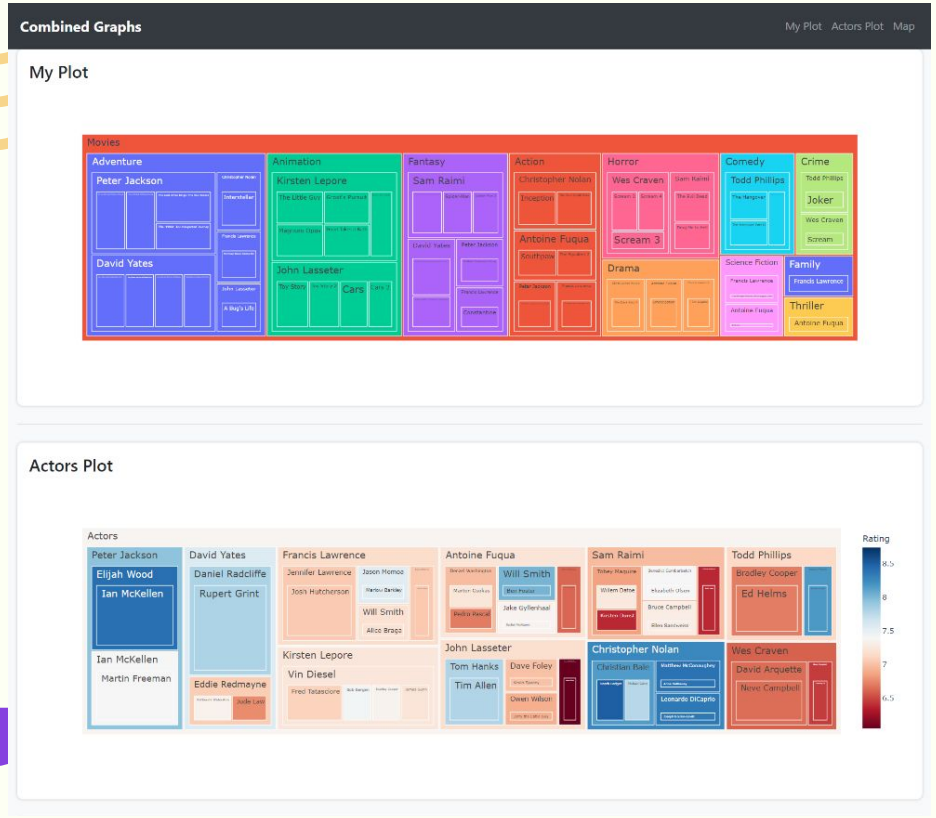
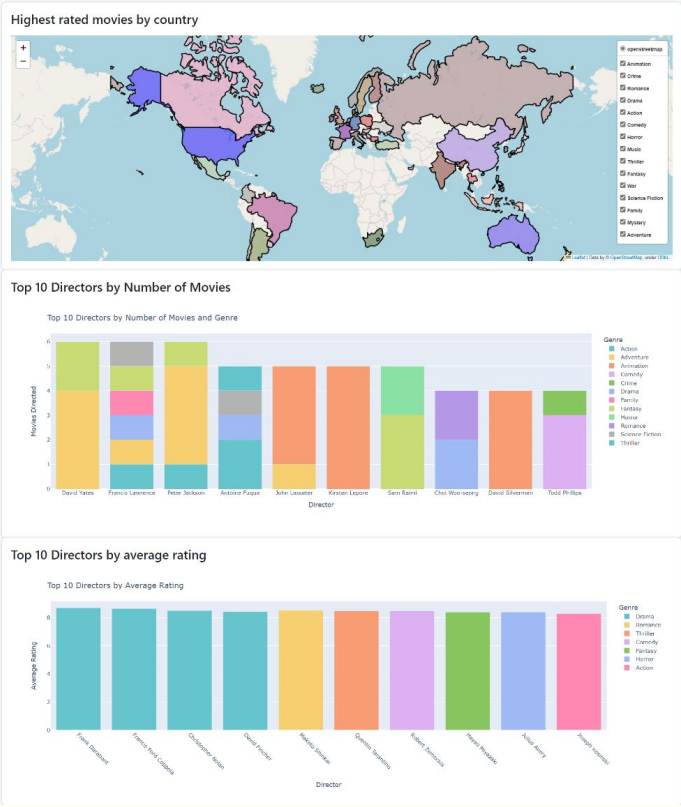
The Web Page: Work in progress





Thank you!