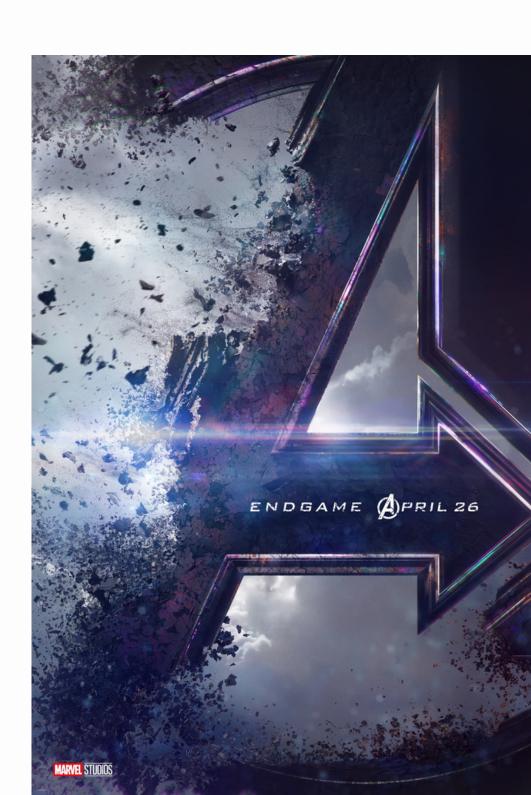
<u>Visual Narratives and Hidden Languages:</u> <u>A Machine Learning Approach to Movie Poster Analysis</u>



Sergiy Chepiga Data Scientist





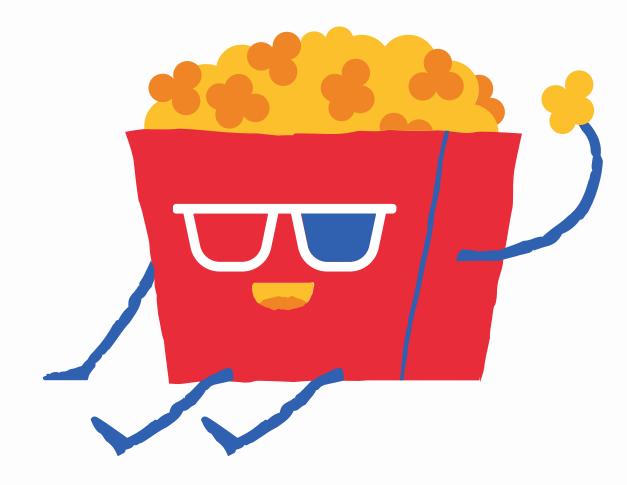
WHAT IS THIS PROJECT ABOUT?

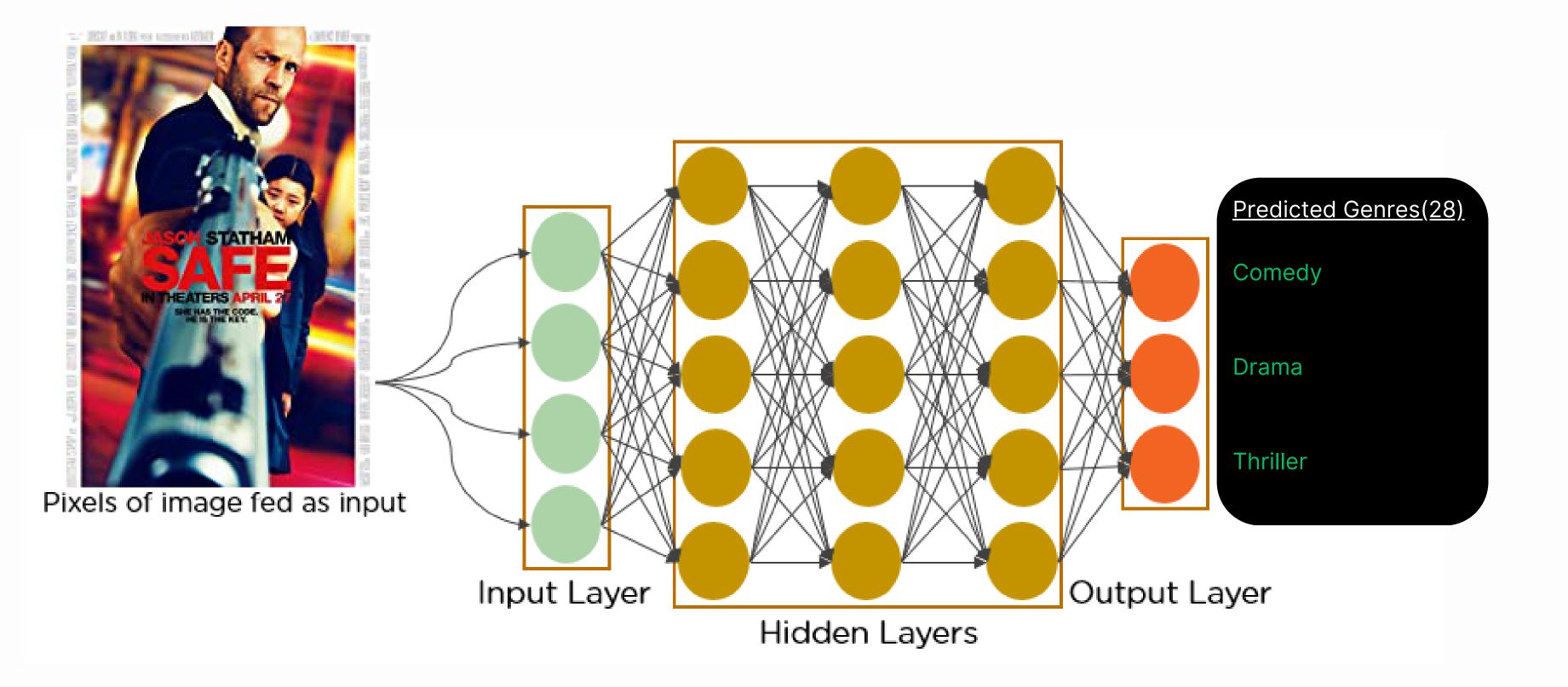
Explore the Connection:

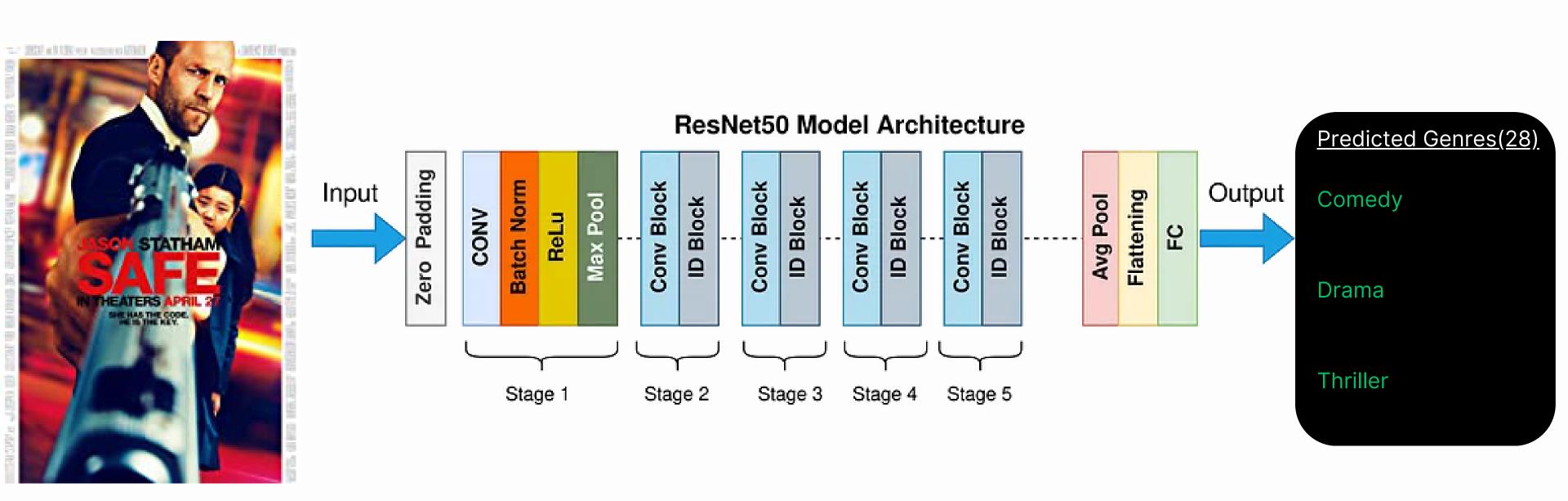
Use machine learning techniques to investigate how a movie's poster visually represents its narrative content.

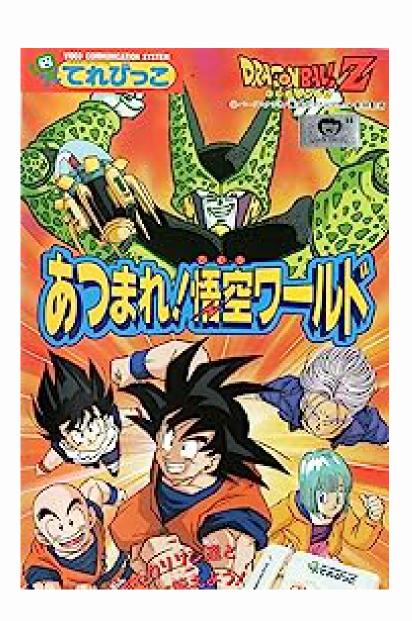
Analyze the Impact:

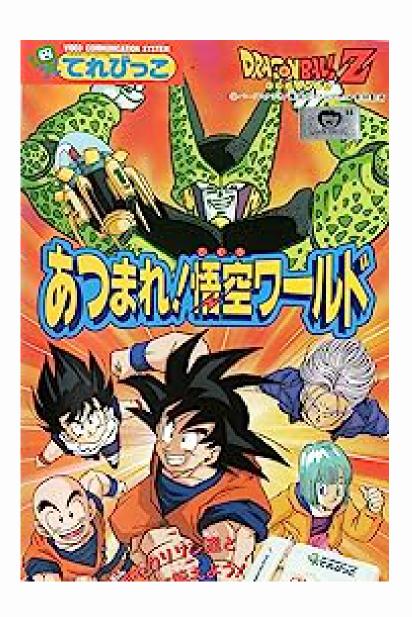
Evaluate how this visual-to-narrative correspondence influences a movie's success, measured by IMDB scores.









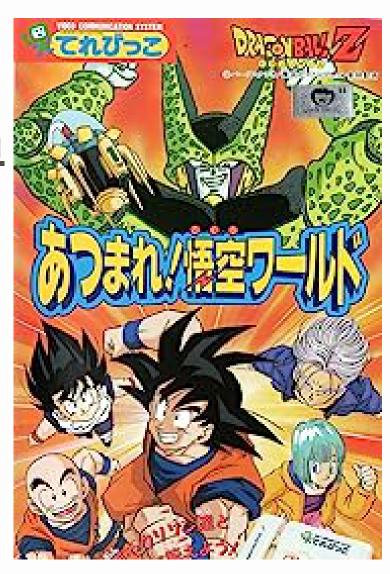


Categorized as: Action, Comedy, Crime

Model Predicted: Comedy, Crime, Drama

Results of Genre Prediction

Posters where genres were correctly predicted had higher average review score

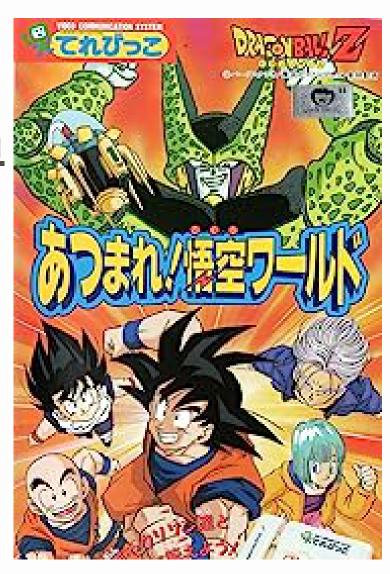


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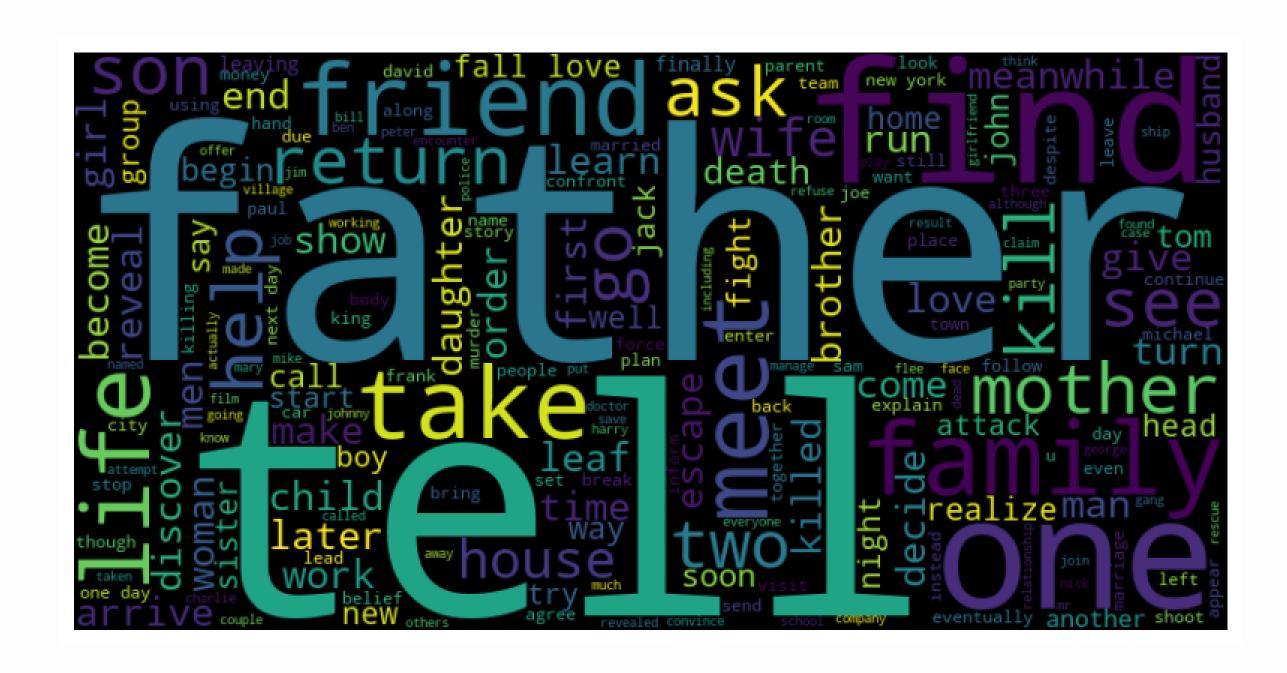


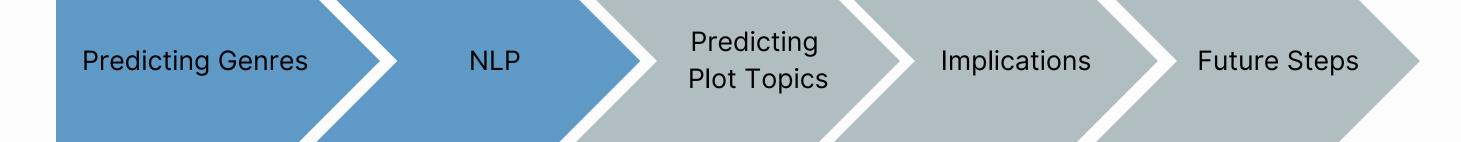
Categorized as:
Action, Comedy, Crime

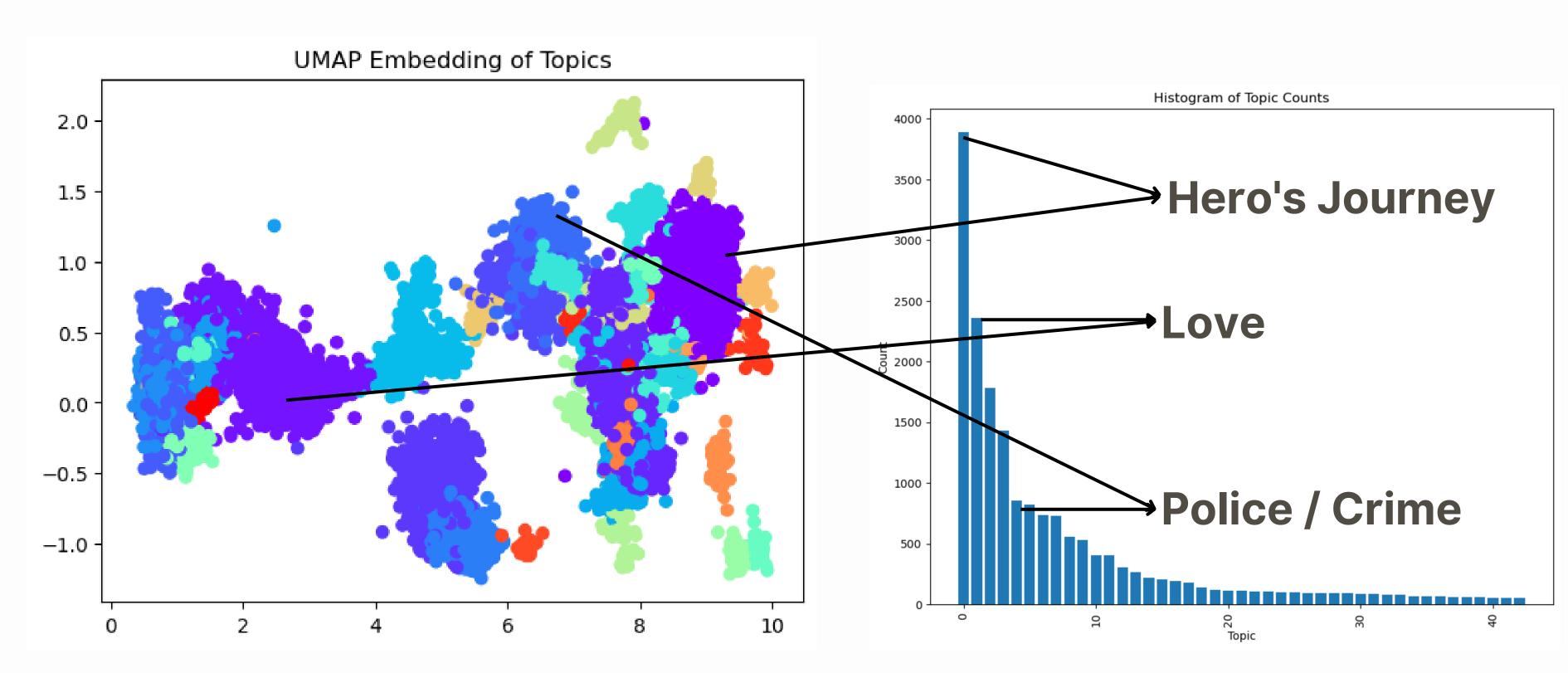
Model Predicted: Comedy, Crime, Drama



Some genre labels are NOT intuitive

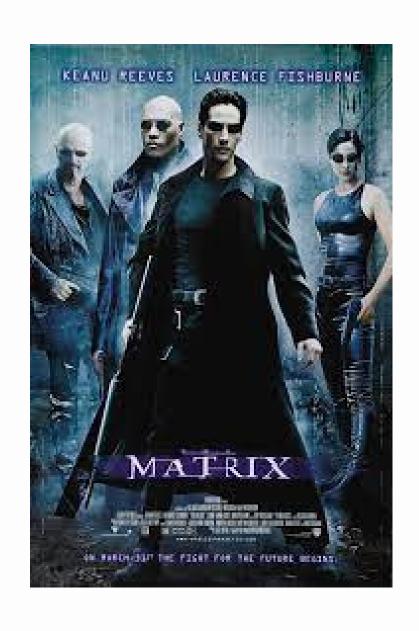




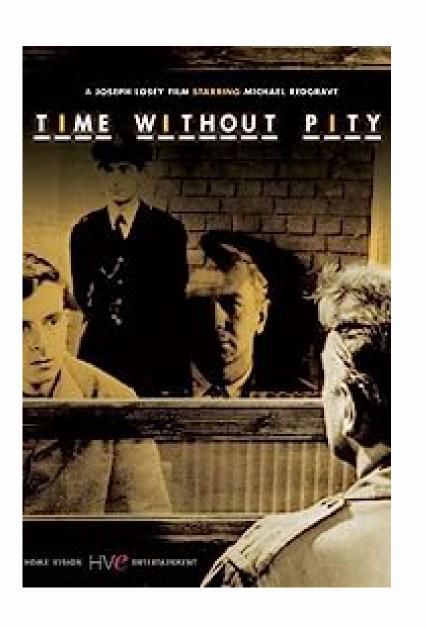


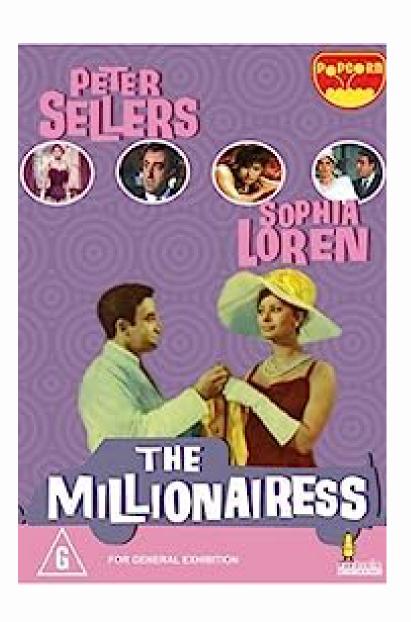
Hero's Journey

Police / Crime









Space Travel

Love



Model correctly predicted the plot involves Space Travel

What plot does this poster depict?

Results of Plot Prediction:

Posters with correctly predicted plot topics had even higher average review score than correctly predicted genres



Model correctly predicted the plot involves Space Travel

What plot does this poster depict?

Movie marketing strategies

Insights from this project can guide the creation of posters that accurately reflect movie content, improving promotions and box-office success.



Content analysis

This project introduces a new method for analyzing and categorizing visual media at scale, useful across various industries.



Recommendation systems

Understanding the visual-narrative relationship can lead to visually-driven recommendations, enhancing user experience.





Accurate posters

Better movie performance



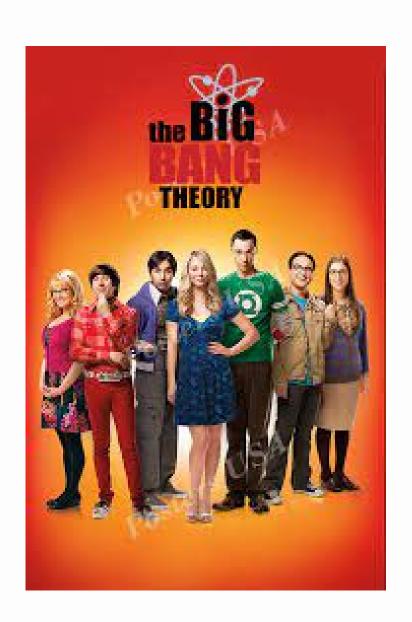
Posters help reveal the film's narrative content



Assists in selecting the most effective poster for audience interest

TV posters

Book covers
Video game covers
Album covers

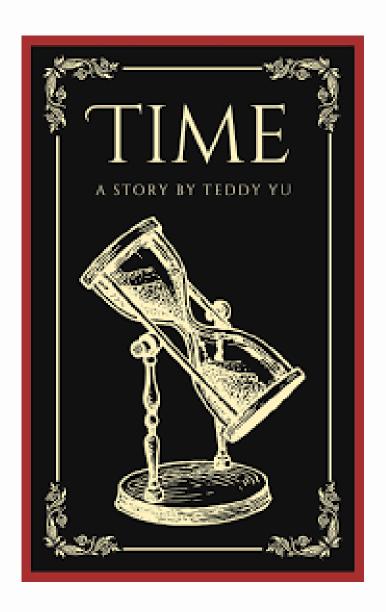


TV posters

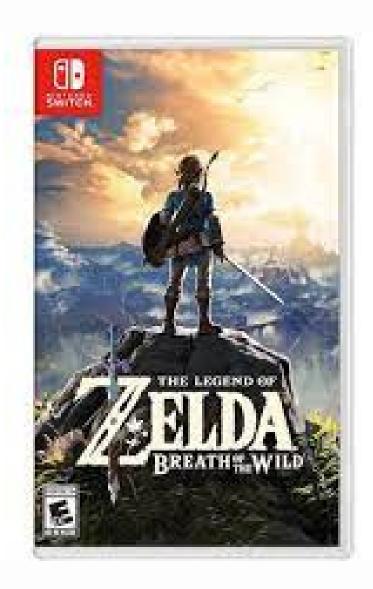
Book covers

Video game covers

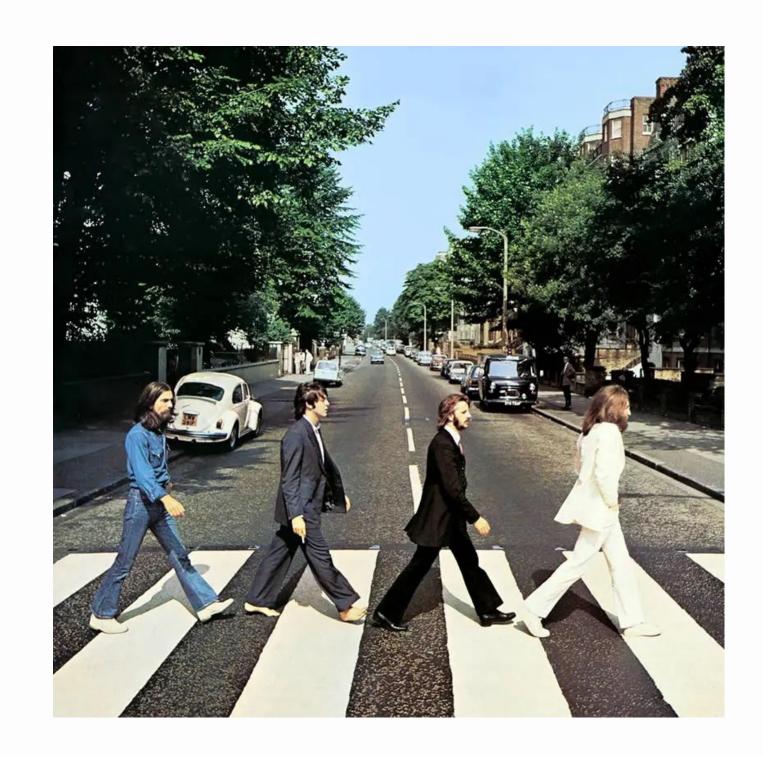
Album covers



TV posters
Book covers
Video game covers
Album covers



TV posters
Book covers
Video game covers
Album covers







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