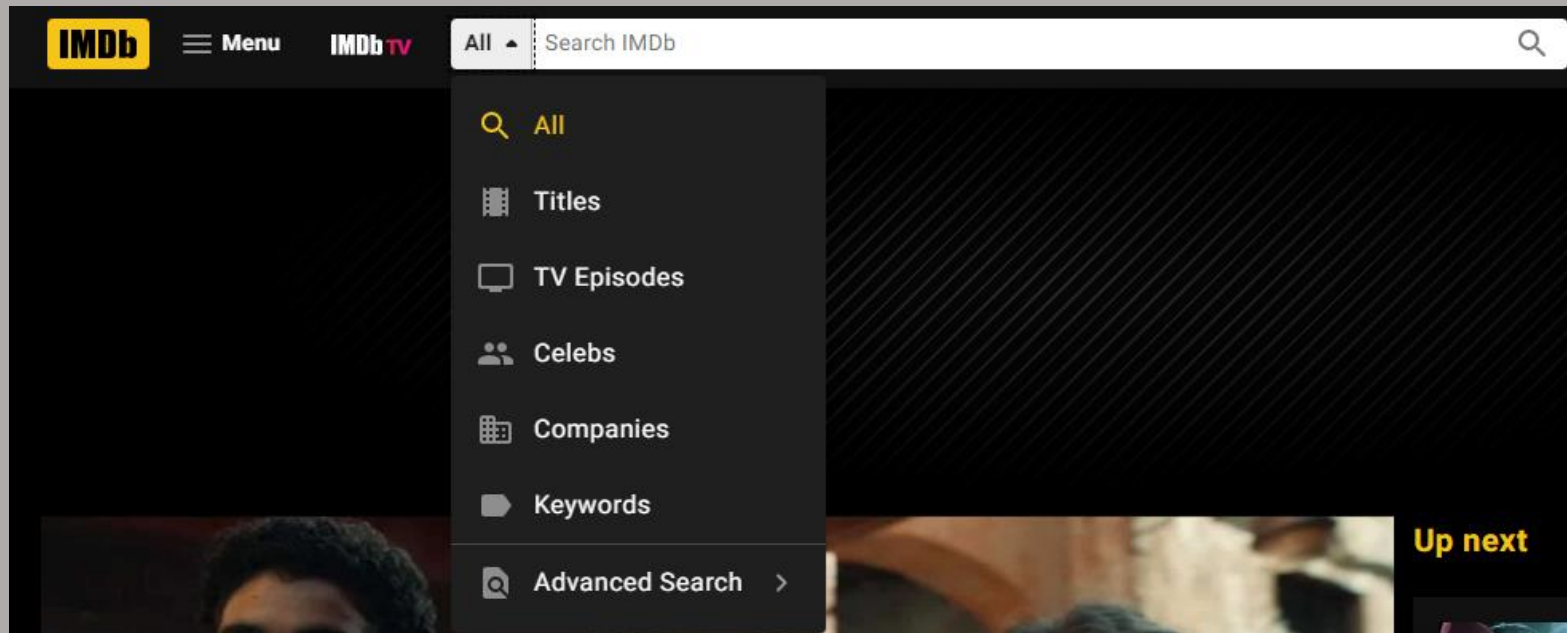
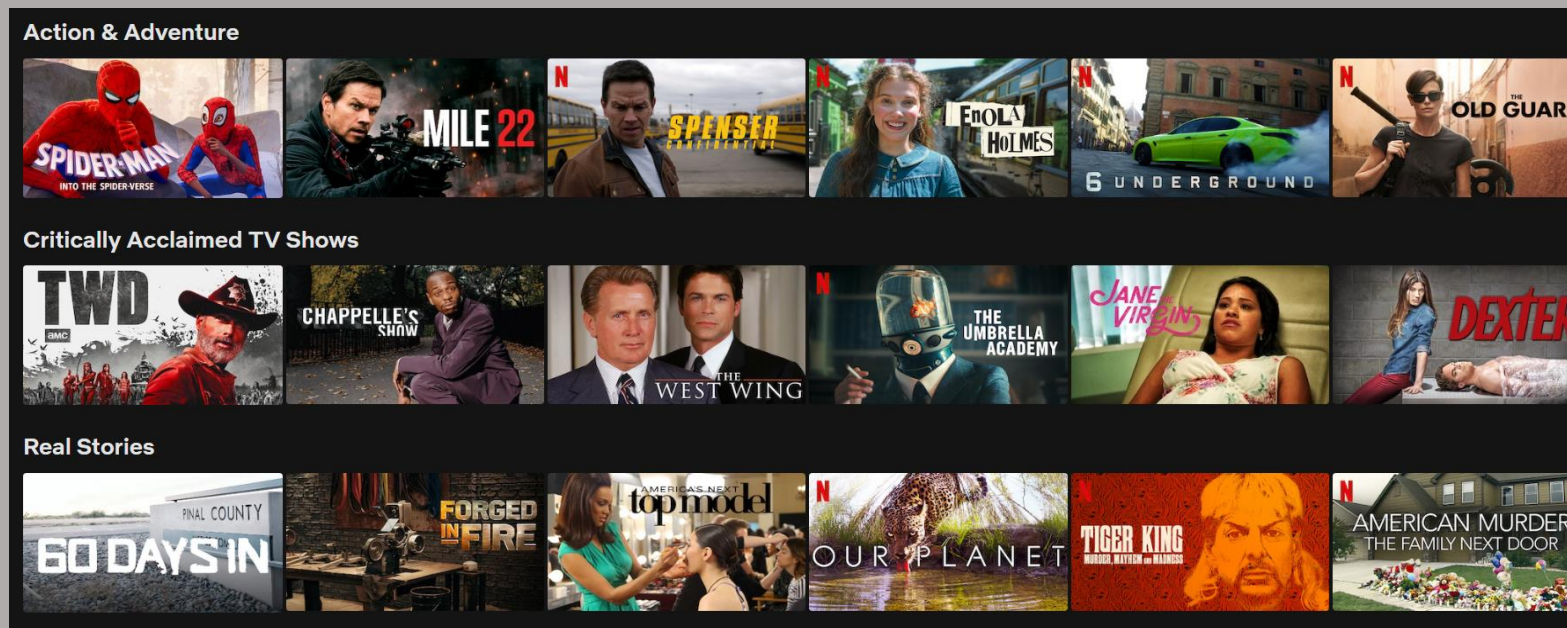


Movie Search with Vague Description

Final Project for Information Retrieval
Zoe (Mengjia Ding)



Search
when you have targets



Browse
when you don't

The Problem

If a user has an **abstract** sense of preference instead of having a specific movie or category/genre to watch, and wants to pick a good movie without wasting much time browsing, it would be very difficult to realize on all available services since all these services focus on exact searches.

Solution Proposed

- Use **only one query** instead of complicated filters or keyword choices. User can help improve the accuracy by including commas between different phrases
- Include more **subjective information** of the movies (such as plot, movie reviews)
- Filter and rank the results not only with relevance score, but also with **IMDB rates**

Dataset Used

- **Movie Basic Information from Kaggle (85854 records)**
<https://www.kaggle.com/stefanoleone992/imdb-extensive-dataset>
- **Movie Plots from Kaggle (34990 records)**
<https://www.kaggle.com/jrobischon/wikipedia-movie-plots>
- ***Synonyms for query expansion (1490 records)**
<https://www.kaggle.com/behcetsenturk/englishengen-synonyms-json-thesaurus>
- ***Movie reviews(25000 records)**
Andrew L. Maas, Raymond E. Daly, Peter T. Pham, Dan Huang, Andrew Y. Ng, and Christopher Potts. (2011). Learning Word Vectors for Sentiment Analysis. The 49th Annual Meeting of the Association for Computational Linguistics (ACL 2011)

Implementation Details

- Title ↓
- Description ↑
- Plot ↑
- Actors
- Director
- Writer

Full text searching

- Genre

If the query has a specific genre,
filter with the genre

- Average Vote Score
- Number of votes

Filter, and help ranking

Demo Time!

Possible Improvements

- Use synonyms to expand the query
- Import movie reviews
- Store all creator's names separately and use term search on them
- Use machine learning approaches to set more subjective tags for the movies (recommender system)

Thank you!
