

André Flores up201907001

Guilherme Garrido up201905407

Luís Lucas up201904624

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RecFlix—TV shows and movies recommendations

Collection

- Single **titles** collection to store our data
- Titles:
 - title, description and genres
- Credits:
 - name and character
- 20.394 titles
- 294.697 credits

```
{
  "id": "tm288499",
  "title": "Roma",
  "type": "MOVIE",
  "description": "In 1970s Mexico City, two domestic wor",
  "release_year": 2018,
  "age_certification": "R",
  "runtime": 135,
  "genres": ["european",
    "drama"],
  "content_type": "parentDocument",
  "imdb_id": "tt6155172",
  "imdb_score": 7.7,
  "imdb_votes": 158129,
  "tmdb_score": 10.0,
  "tmdb_popularity": 12.745,
  "_version_": 1749469966138081280},
{
  "person_id": 3748,
  "name": "Robert De Niro",
  "character": "Travis Bickle",
  "role": "ACTOR",
  "id": "credit_tm84618_1",
  "_version_": 17494699907968327680
```

System improvements

- Last information need answered
- Synonyms file
- New data sources
- Search user interface

Last information need

- What actors are similar to George Clooney by genres of titles he's participated in?
 1. Get titles
 2. Get credits from those titles



Retta
Mae Whitman
Reno Wilson
Manny Montana
Lidya Jewett
Isaiah Stannard
Matthew Lillard
Glenn Close
Max Irons
Stefanie Martini
Terence Stamp
Honor Kneafsey
Julian Sands
Gillian Anderson
Christian McKay
Amanda Abbington
Michael Shannon
Judy Greer
Thomas Lennon
Ron Perlman
Ian McShane
Michael Torpey
Blake Perlman
Elena Hurst
Timothy Davis-Reed
Sami Gayle
Jacob Latimore
Uzo Aduba
Helen Hunt
Tom Bergeron
Tracey Bonner
Paul Tigue
Evan Castelloe
Wilbur Fitzgerald

New data sources

- Previous dataset

NETFLIX

- Added data



Query analysis

Fast & Furious Spy Racers

A government agency recruits teen **driver** Tony Toretto and his thrill-seeking **friends** to infiltrate a criminal street **racing** circuit as undercover spies.

Fast & Furious 6

Hobbs has Dominic and Brian reassemble their crew to take down a team of mercenaries: Dominic unexpectedly gets convoluted also facing his presumed deceased girlfriend, Letty.

The Fast and the Furious

A man wrongly imprisoned for murder breaks out of jail. He wants to clear his name, but with the police pursuing him, he's forced to take a beautiful young woman, **driving** a fast sports car, hostage and slip into a cross-border sports car **race** to try to make it to Mexico before the police get him.

The Fast and the Furious: Tokyo Drift

In order to avoid a jail sentence, Sean Boswell heads to Tokyo to live with his military father. In a low-rent section of the city, Shaun gets caught up in the underground world of drift **racing**.

Evaluation



No schema	Schema	Boosted
0,76	0,76	0,83
0,68	0,62	0,52

Search user interface

Conclusions

- All information needs answered
- Precision still lower than expected

Future work

- Machine learning techniques to help ordering the documents
 - Obtain more of the relevant ones in the higher ranks
 - Improve precision and average precision
- Improve UI
 - Show more information for each title/credit
 - Add images to make it more appealing