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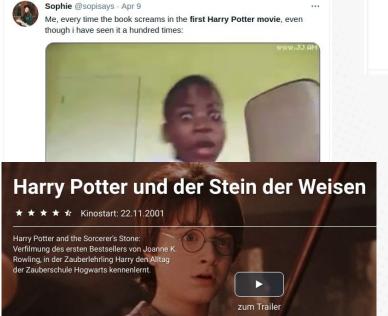


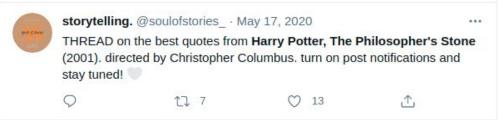






Problem





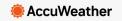














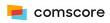


Problem

• Do the titles X and Y represent the same movie?

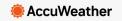
 Bunch of movie titles -> Group them depending on the movie they represent!















The data

LANGUAGE PROBLEM

Harry Potter & the Sorcerer's Stone Harry Potter and the Sorcerer's Stone

Harry Potter One Harry Potter 1 First Harry Potter Movie

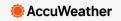
Harry Potter & the Philosopher's Stone Harry Potter and the Philosopher's Stone















The data

LANGUAGE PROBLEM

Harry Potter & the Sorcerer's Stone Harry Potter and the Sorcerer's Stone

KNOWLEDGE PROBLEM

Harry Potter One Harry Potter 1 First Harry Potter Movie

Harry Potter & the Philosopher's Stone Harry Potter and the Philosopher's Stone















The data

TRANSLATION PROBLEM

LANGUAGE PROBLEM

Harry Potter & the Sorcerer's Stone Harry Potter and the Sorcerer's Stone Harry Potter und der Stein der Weisen (2001)

KNOWLEDGE PROBLEM

Harry Potter One Harry Potter 1 First Harry Potter Movie

Harry Potter & the Philosopher's Stone Harry Potter and the Philosopher's Stone















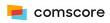
Solution

LANGUAGE PROBLEM - NLP (tokenization/ lemmatization/ etc)

```
Harry Potter & the Sorcerer's Stone -> ['harry', 'potter', 'sorcerer', 'stone', ''']
Harry Potter and the Sorcerer's Stone -> ['harry', 'potter', 'sorcerer', 'stone', ''']
```

```
Harry Potter One -> ['harry', 'one', 'potter']
Harry Potter 1 -> ['harry', 'one', 'potter']
```















Solution



KNOWLEDGE PROBLEM - GOOGLE KNOWLEDGE GRAPH API

Harry Potter & the Philosopher's Stone Harry Potter and the Philosopher's Stone

Harry Potter i la Pedra Filosofal

(440.1052856445312)

(113216.796875)

Harry Potter and the Chamber of Secrets

(201.3001251220703)

Harry Potter (107.7324752807617)

Harry Potter & amp; The Philosopher's Stone (100)

Harry Potter and the Philosopher's Stone (79.19971466064453)

Harry Potter and the Philosopher's Stone:

Harry's Wondrous World (48)

Harry Potter und der Stein der Weisen (2001)

Harry Potter (92.34211730957031)

Harry Potter and the Philosopher's Stone (63.07793045043945)

Harry Potter and the Philosopher's Stone (8.806763648986816)

Harry Potter and the Chamber of Secrets

(3.844590425491333)

Harry Potter and the Philosopher's Stone (2.563870906829834)

Harry Potter and the Philosopher's Stone (2.234956979751587)

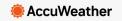
Harry Potter and the Goblet of Fire (1.793914198875427)









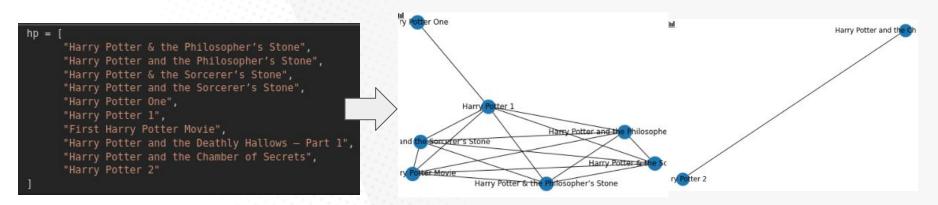






Solution

Are X and Y the same movie? -> if so, connect them in the graph



O ['Harry Potter & the Philosopher's Stone', 'Harry Potter and the Philosopher's Stone', 'Harry Potter & the Sorcerer's Stone', 'Harry Potter and the Sorcerer's Stone', 'Harry Potter One', 'Harry Potter 1', 'First Harry Potter Movie']
1 ['Harry Potter and the Deathly Hallows — Part 1']
2 ['Harry Potter and the Chamber of Secrets', 'Harry Potter 2']















Results

```
Demon Slayer The Movie: Mugen Train
Demon Slaver - Kimetsu No Yaiba - The Movie: Mugen Train
DEMON SLAYER THE MOVIE: MUGEN TRAIN
Tom & Jerry
Tom y Jerry
Tom & Jerry The Movie
Maya the Bee 3: The Golden Orb
MAIJA MEHILÄINEN JA KULTAINEN AARRE
Peter Rabbit 2: The Runaway
Peter Rabbit 2: A la fuga
Pelle Kanin 2: På rymmen
Peter Rabbit: Coelho à Solta
Peter Hase 2 - Ein Hase macht sich vom Acker
Minions: El origen de Gru
KÄTYRIT: GRUN TARINA
Minions: The Rise of Gru
BLACK WIDOW
Black Widow
Viuda Negra
Marvel Black Widow
FAST & FURTOUS 9
Fast and Furious 9
Fast & Furious 9
F9 - Fast & Furious 9
Fast & Furious Presents: Hobbs & Shaw
Space Jam: A New Legacy
Doctor Strange: In the Multiverse of Madness
Doctor Strange in the Multiverse of Madness
The Matrix 4
The Matrix Resurrections
No Time To Die
Sin tiempo para morir
007 No Time to Die
The Boss Baby: Family Business
Baby Boss 2 : une affaire de famille
Ainbo: Hrdinka pralesa
Charlie's Angels (2020)
Charlie's Angels
Godzilla: King of the Monsters
Godzilla II - King of the Monsters
POKÉMON Detective Pikachu
Pokémon: Detective Pikachu
Roger Waters - Concert
Roger Waters: Us + Them
Roger Waters: Us + Them (Digital 5.1)
The Lion King
The Lion King (2019)
Zombieland 2
Zombieland: Double Tap
```

- 0 ['Demon Slayer Kimetsu No Yaiba The Movie: Mugen Train', 'DEMON SLAYER THE MOVIE: MUGEN TRAIN']
- 1 ['Tom & Jerry', 'Tom y Jerry', 'Tom & Jerry The Movie']
- 2 ['Maya the Bee 3: The Golden Orb']
- 3 ['MAIJA MEHILÄINEN JA KULTAINEN AARRE']
- 4 ['Peter Rabbit 2: The Runaway', 'Peter Rabbit 2: A la fuga', 'Pelle Kanin 2: På rymmen', 'Peter Rabbit:
- Coelho à Solta', 'Peter Hase 2 Ein Hase macht sich vom Acker']
- 5 ['Minions: El origen de Gru', 'KÄTYRIT: GRUN TARINA', 'Minions: The Rise of Gru']
- 6 ['BLACK WIDOW', 'Black Widow', 'Viuda Negra', 'Marvel Black Widow']
- 7 ['FAST & FURIOUS 9', 'Fast and Furious 9', 'Fast & Furious 9', 'F9 Fast & Furious 9']
- 8 ['Fast & Furious Presents: Hobbs & Shaw']
- 9 ['Space Jam 2', 'Space Jam: A New Legacy']
- 10 ['Doctor Strange: In the Multiverse of Madness', 'Doctor Strange in the Multiverse of Madness']
- 11 ['The Matrix 4']
- 12 ['The Matrix Resurrections']
- 13 ['No Time To Die', 'Sin tiempo para morir', '007 No Time to Die']
- 14 ['The Boss Baby: Family Business']
- 15 ['Baby Boss 2 : une affaire de famille']
- 16 ['Ainbo: Hrdinka pralesa', 'Ainbo']
- 17 ["Charlie's Angels (2020)", "Charlie's Angels"]
- 18 ['Godzilla: King of the Monsters', 'Godzilla II King of the Monsters']
- 19 ['POKÉMON Detective Pikachu', 'Pokémon: Detective Pikachu']
- 20 ['Roger Waters Concert', 'Roger Waters: Us + Them']
- 21 ['Roger Waters: Us + Them (Digital 5.1)']
- 22 ['The Lion King', 'The Lion King (2019)']
- 23 ['Zombieland 2', 'Zombieland: Double Tap']















Results

96% correct association - out of 51 movie titles

Peter Rabbit 2: The Runaway

Peter Rabbit 2: A la fuga

Pelle Kanin 2: På rymmen

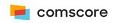
Peter Rabbit: Coelho à Solta

Peter Hase 2 - Ein Hase macht

sich vom Acker

Minions: El origen de Gru KÄTYRIT: GRUN TARINA Minions: The Rise of Gru















Limitations and perspectives for the future

A bit dependent on the Google Knowledge API:

2 ['Maya the Bee 3: The Golden Orb'] 3 ['MAIJA MEHILÄINEN JA KULTAINEN AARRE']

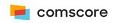
Funny example:

7 ['FAST & FURIOUS 9', 'Fast and Furious 9', 'Fast & Furious 9', 'F9 - Fast & Furious 9'] 8 ['Fast & Furious Presents: Hobbs & Shaw']

Future: What countries have the most different titles?

The Nightmare Before Christmas (EN) - Jack's Odd World (PT) 101 Dalmatians (EN) - The Night of The Cold Noses (ES)















b33mo

- Joana Ferreira
- Cristina Meng



