Cult Film Recommender

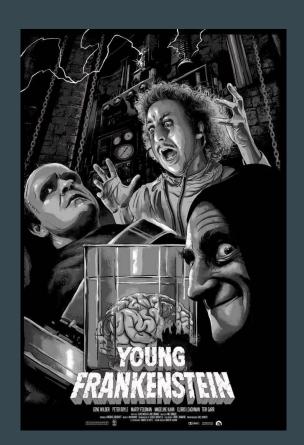
Emily Hillenbrand

Cult Film Recommender

What makes a Cult Film?

- Has a cult following
- Not an initial commercial success
- Featured on Mystery Science Theater 3000*

What is a Cult Film?







Cult Film Recommender

Recommendation Systems

Content-Based Filtering

Collaborative Filtering

Recommendation Systems

Content-Based Filtering

- Create system for describing items | based on features |
- 2. Manually collect features on items
- 3. Recommend more of the same

Collaborative Filtering

Recommendation Systems

Content-Based Filtering

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Collaborative Filtering

I Find other people who like the sameI stuff as you

- Requires a huge user base to get good results
- Need to submit lots of likes and dislikes

A New Way to Recommend

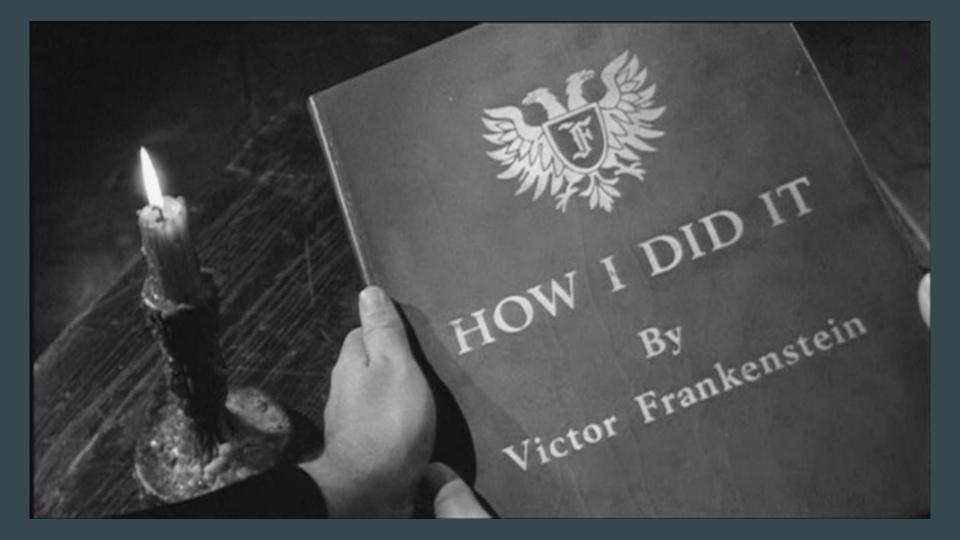
How It Works

- Scrape movie info from reviews
- 2. Use NLP to figure out the relevant features
 - 3. Map distribution of features for each movie

A New Way to Recommend

What It Is

- Finds the most similar but with added interface that allows direct feedback
- Created from IMDb user base



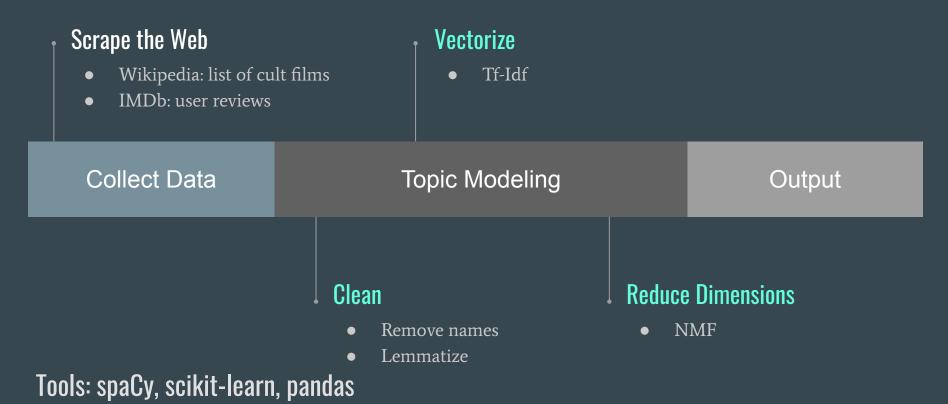
Collect Data Topic Modeling Output

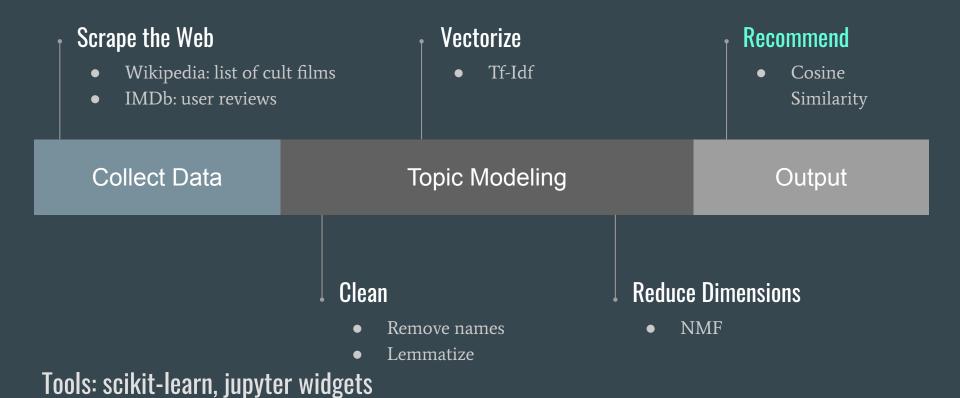
Scrape the Web

- Wikipedia: list of cult films
- IMDb: user reviews

Collect Data Topic Modeling Output

Tools: python, BeautifulSoup, Selenium





Topic: 'Art/Classic'

french, art, cinema, war, image

Topic: ' Gory/Scary '

horror, gore, slasher, halloween, house

Topic: 'Sci Fi'

alien, sci_fi, planet, space, science

Topic: 'Vampires '

vampire, dracula, horror, hammer, blood

Topic: 'Silly '

comedy, funny, laugh, joke, humor

Topic: 'Animated '

animation, animate, anime, disney, cartoon

Topic: 'Martial Arts'

martial, kung_fu, fight, action, kong

Topic: 'Music

Documentary '

band, music, concert, rock, song

Topic: 'Living Dead'

zombie, horror, gore, fulci, shaun

Topic: ' Giant Monster '

monster, godzilla, creature, frankenstein, giant

Topic: 'Russia'

russian, soviet, polish, russia, poland

Topic: 'Sex'

sex, woman, porn, gay, sexual

Topic: 'Gold'

leprechaun, lep, gold, cody, vegas

Topic: 'Action '

action, cop, gang, western, noir

Topic: 'Kids'

school, teen, kid, girl, high

Topic: 'Holiday '

christmas, santa, claus, holiday, martian

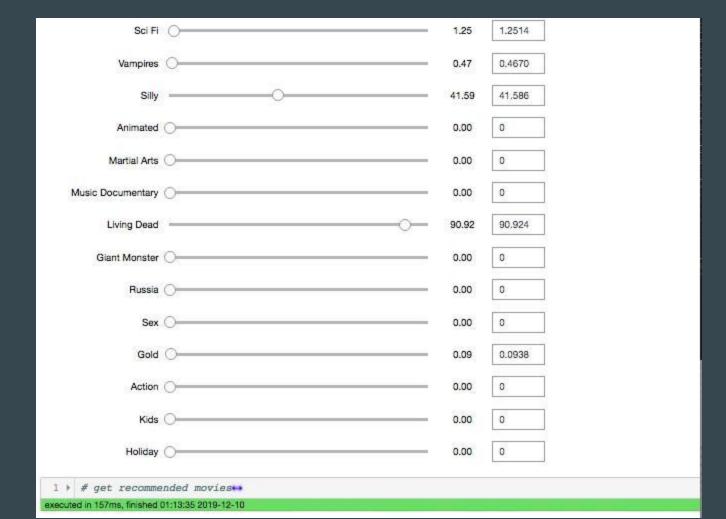


Example Movie: Shaun of the Dead

"A Romantic Comedy With Zombies"

- British zombie horror comedy
- Balances silly with serious



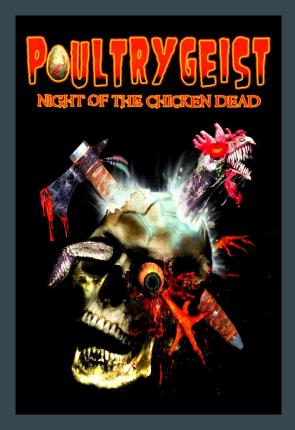




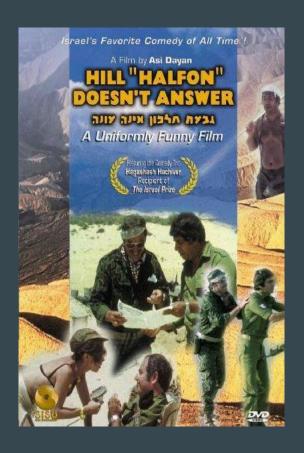




Most similar to Shaun of the Dead







Much sillier than Shaun of the Dead

Other Applications

Creating Features from Reviews

Amazon Products

Yelp Restaurants

Comic Books

Anything else with reviews

Thank You

What are your favorite cult films?

Emily Hillenbrand



/in/hillenbrandemily



/ehillenbrand4541

