

Using classification models to assess character alignment in comics

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Which attributes are associated with good and evil?

Inferential: looking for trends in the data





Images: https://comicbook.com/marvel/news/avengers-endgame-infinity-war-disney-marvel-one-demand-thanos/, https://ew.com/movies/2019/04/30/avengers-endgame-russo-brothers-captain-america/

Features and Target

- Secret identity?
- Sex
- Hair and eye color
- GSM?
- Alive?



Good

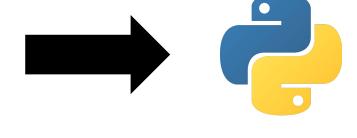
Neutral





Data cleaning





Pandas

Numpy

Matplotlib

Seaborn

Images: https://pngimage.net/database-logo-png-4/, https://commons.wikimedia.org/wiki/File:Python-logo-notext.svg, https://en.wikipedia.org/wiki/Kaggle

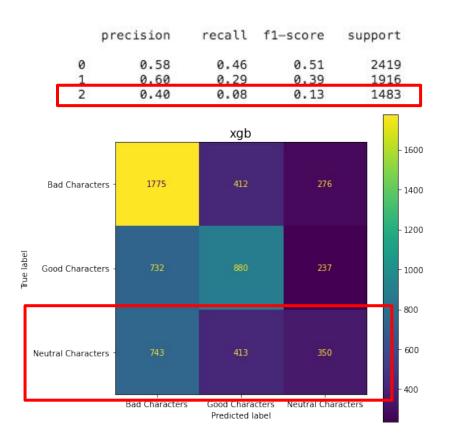
Models

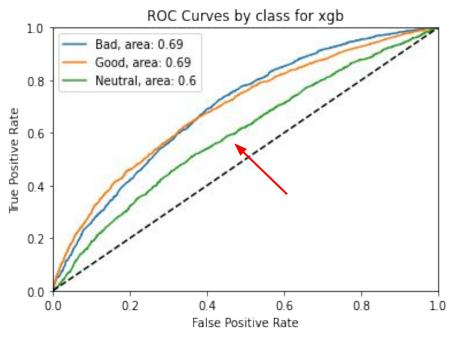
- Logistic regression
- KNN
- SVM
- Naive Bayes
- Decision Tree
- Random Forest
- XGBoost

XGB performed best, but...



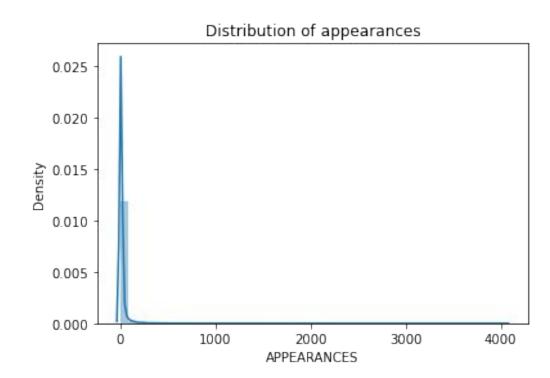
Neutral category poorly predicted





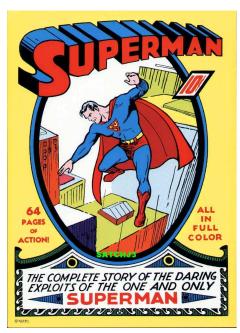
Why is predicting alignment difficult?

- Dearth of well-developed characters
- Neutral characters have less extreme traits
- Lacked personality data
 - NLP/sentiment analysis



Takeaways

- Character tropes and trends are fluid
- What actually determines characters' morality?
- How have characters changed?





Gritty!

Images: https://www.themarysue.com/celebrate-superman-month-with-a-historical-timeline-part-1-1930s-to-1960s/https://www.popsugar.com/entertainment/First-Picture-Henry-Cavill-Batman-v-Superman-35141922



https://ew.com/movies/2019/10/14/deadpool-writers-marvel-future/

https://screenrant.com/venom-cast-character-guide/, https://batman.fandom.com/wiki/The Dark Knight Rises, https://www.empireonline.com/tv/reviews/the-boys-season-2/, https://www.amazon.com/SHAZAM-POSTER-ORIGINAL-Advance-ZACHARY/dp/B07MBP4LMG

Demo!



Image: https://www.insider.com/captain-america-civil-war-concept-art-2016-9

Questions?



Important features



https://metro.co.uk/2019/10/10/brie-larson-confirms-female-mcu-star s-asked-women-marvel-movie-10893821/

