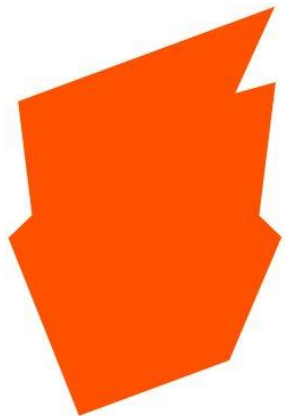


A Recommender for Board Games

Luke LaJoie
May 22, 2020

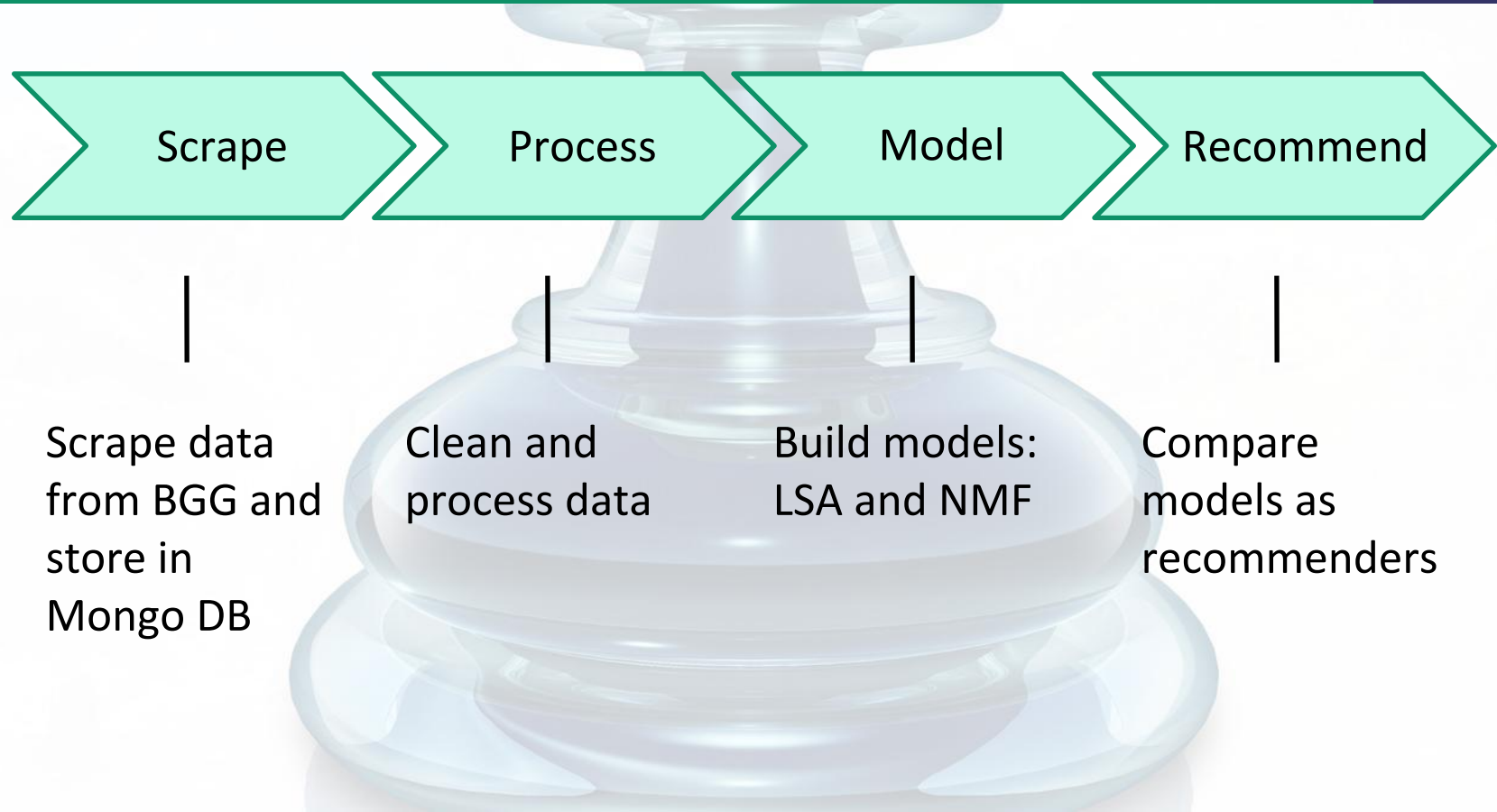
Introduction



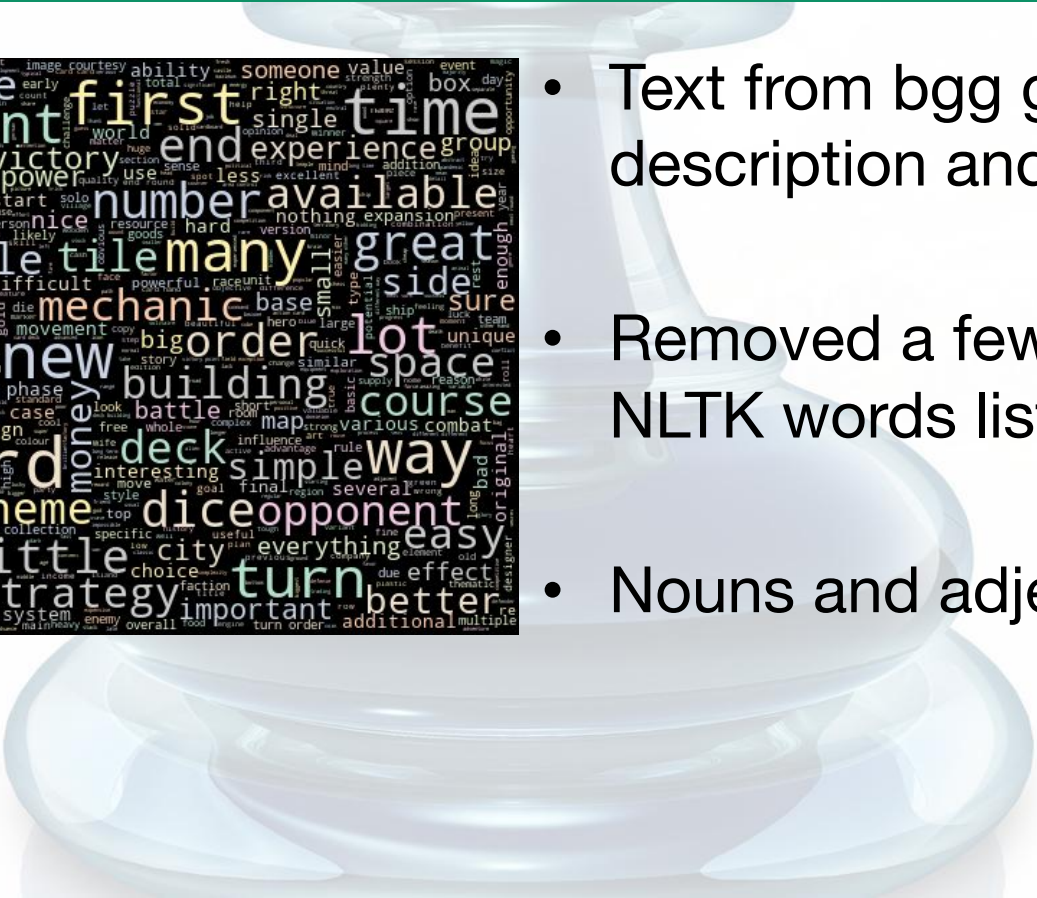
**BOARD
GAME
GEEK**

- Over 100,000 entries on boardgamegeek.com
- What games are for me?
- Build a recommender

Methodology



Methodology



- Text from bgg game description and reviews
- Removed a few words from NLTK words list
- Nouns and adjectives

Methodology

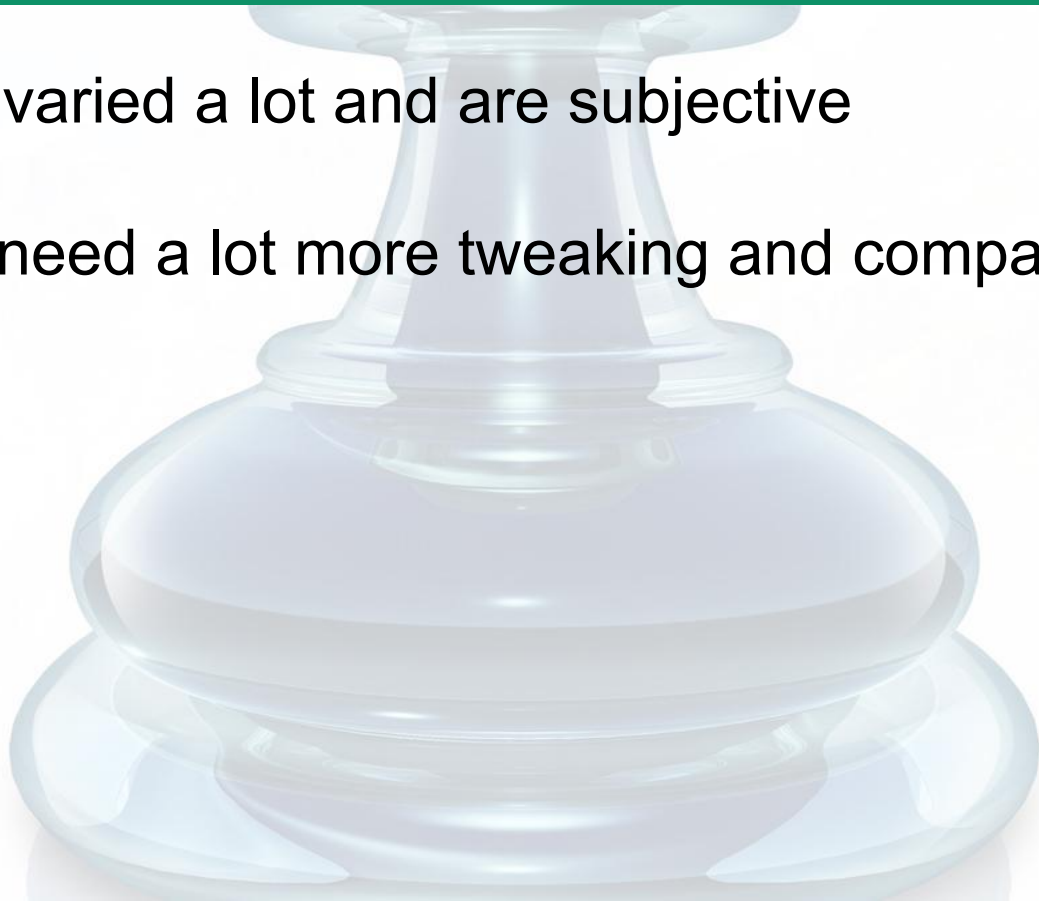
- Modeling
 - LSA and NMF
 - 5, 10, and 15 topics
 - “Domain” data combined with text components
- Comparing results
 - Given a game, get similar games
 - Given text, get games

Results

- Flask App
 - Game similar to game
 - Game similar to text description

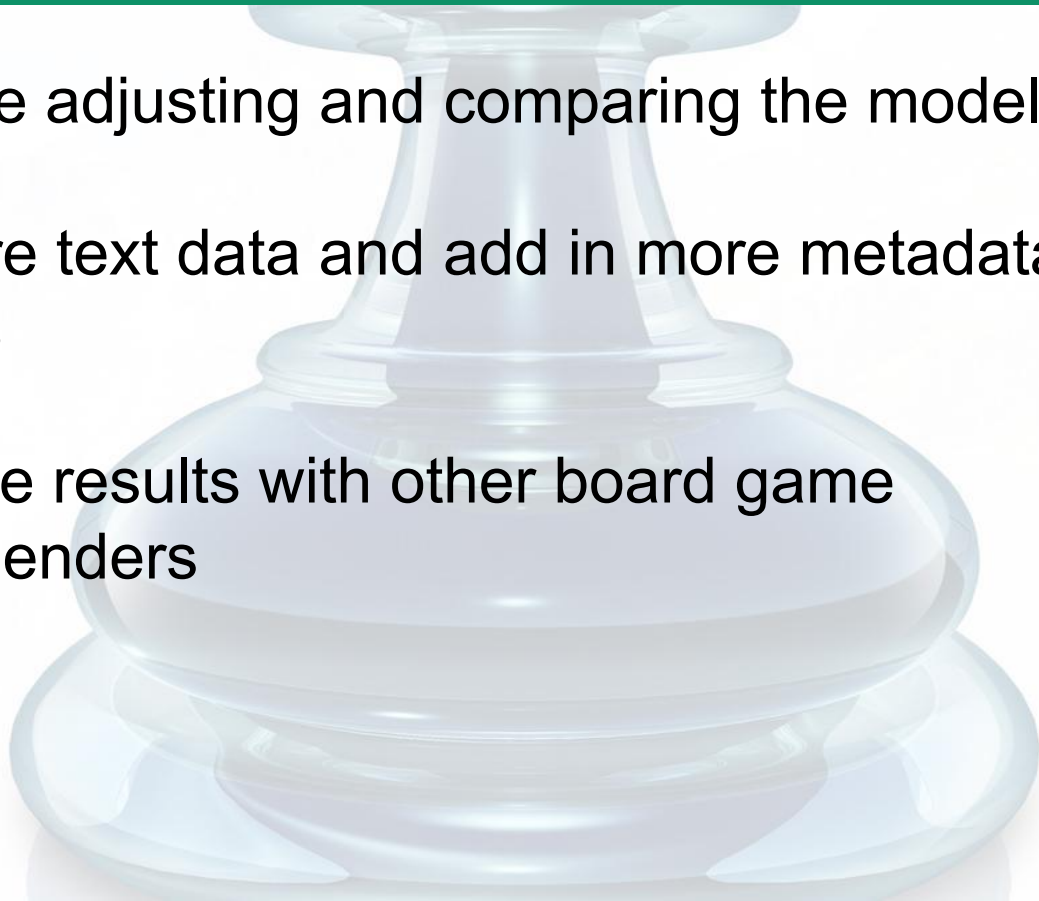
Conclusions

- Results varied a lot and are subjective
- Models need a lot more tweaking and comparing



Future Work

- Continue adjusting and comparing the models
- Get more text data and add in more metadata features
- Compare results with other board game recommenders



Questions?



Appendix



Results

