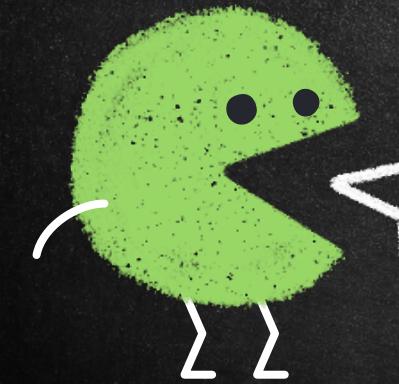


WHAT PODCAST TO LISTEN TO NEXT?

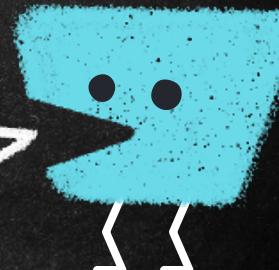
SARA ZONG
FEB 26TH, 2021



MOTIVATION:

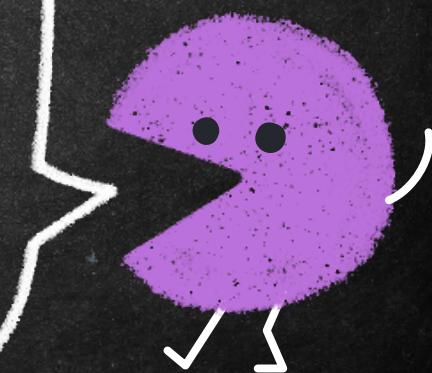
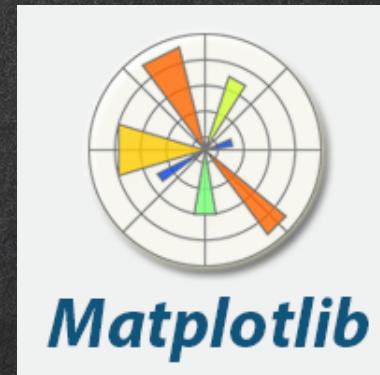
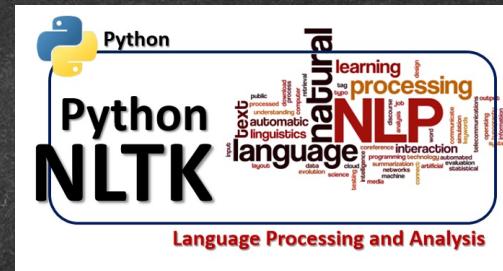
- Podcasts could help us learn new things
- They are a form of entertainment
- You could listen to them anywhere

But there are so many podcasts out there, which one should I listen to?



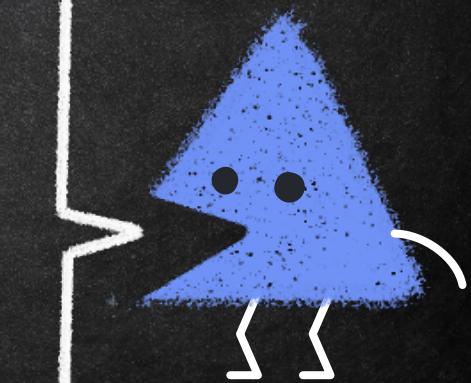
Tools:

kaggle



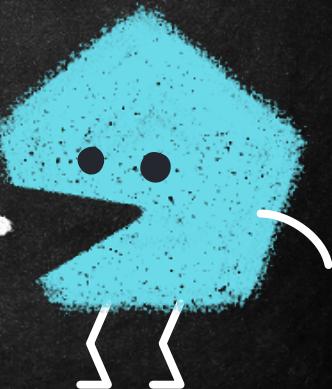
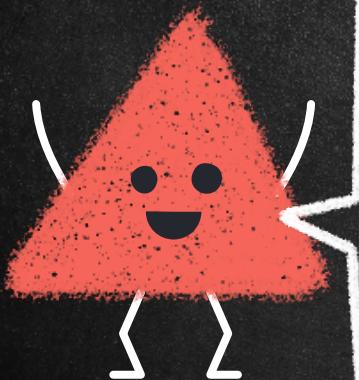
PODCASTS REVIEWS COME FROM KAGGLE

- Randomly sample ~1million podcast reviews to get ~100k for ~20k podcasts
- Review text analysis to identify topics and use these topics for podcast recommendation



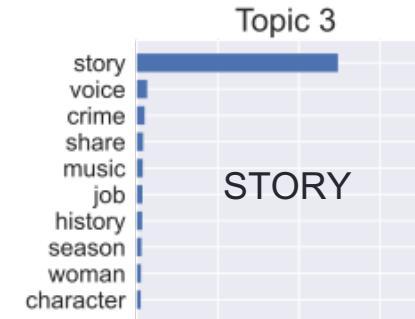
TEXT ANALYSIS:

- nouns only from reviews
- TF-IDF
- NMF
- cosine distance for recommendation

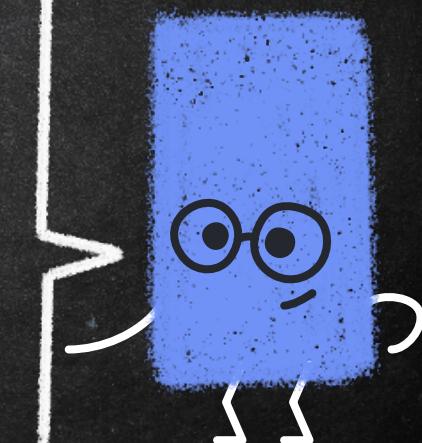
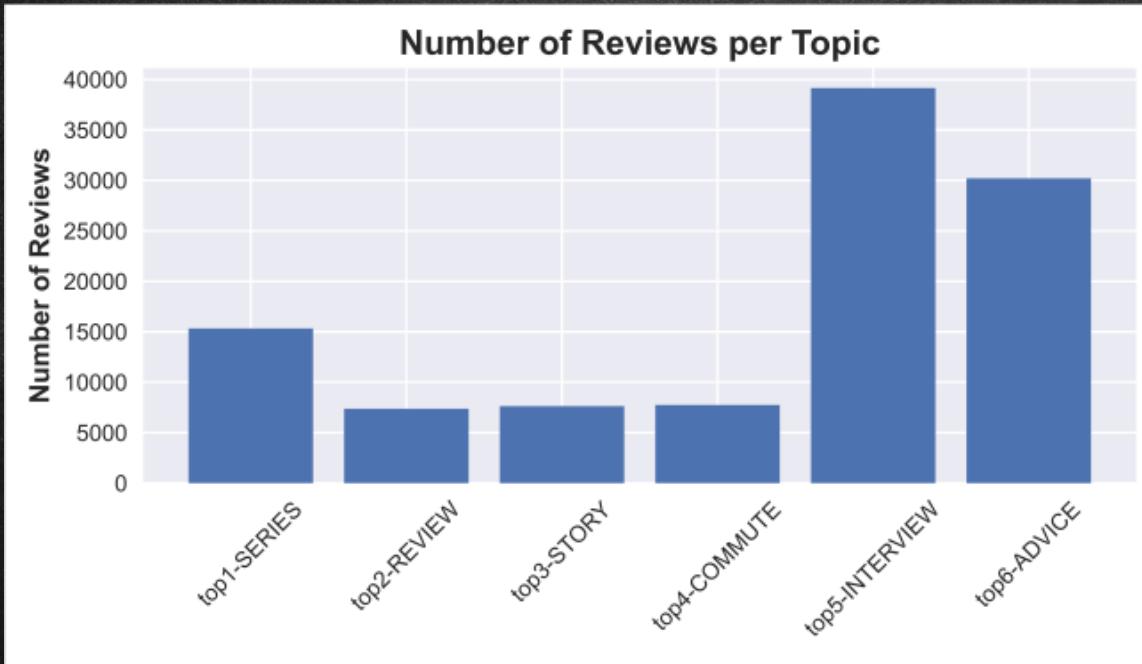


HERE ARE THE SIX TOPICS:

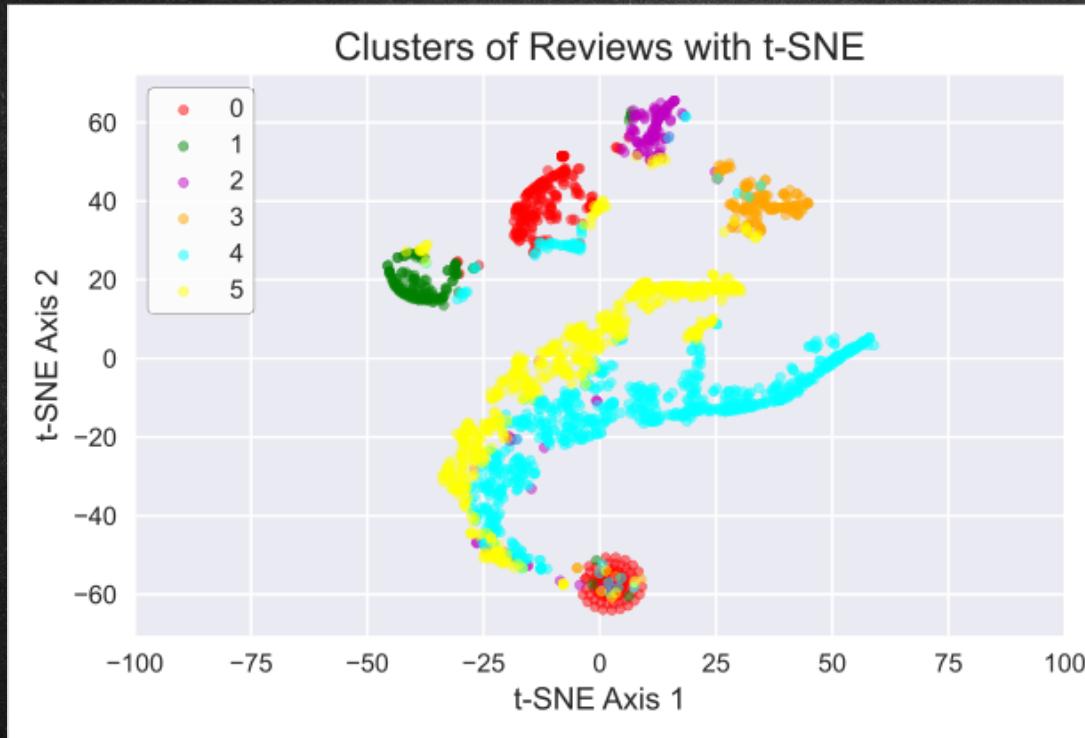
Six Topics from NMF Topic Modeling



TOPIC 5 AND 6 HAVE MORE REVIEWS THAN THE OTHERS:

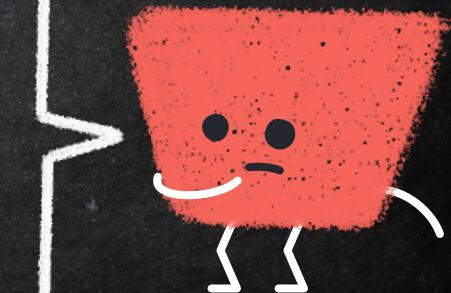


T-SNE REDUCES SIX TOPICS TO TWO DIMENSIONS:



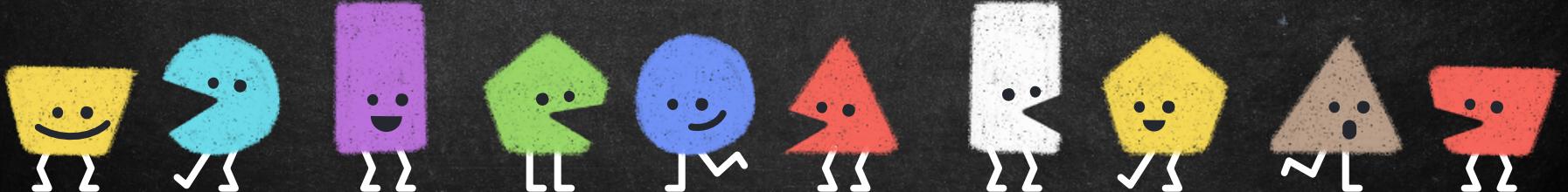
RECOMMENDATION FOR SOMEONE LIKES *INVISIBILIA*:

- Apollo 11: What We Saw
- Books and Nachos
- Planet Money
- Slow Burn
- Up and Vanished



NEXT STEP:

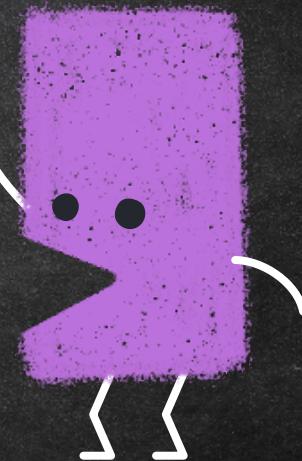
- Build a recommender with Google pre-trained Word2Vec to compare
- Get description of each podcast and perform text analysis



“

Thank you!

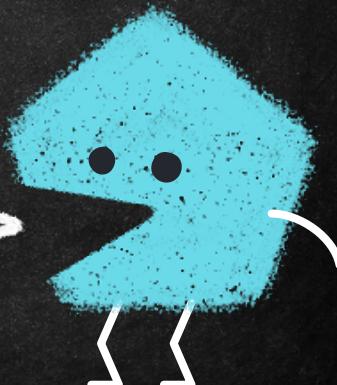
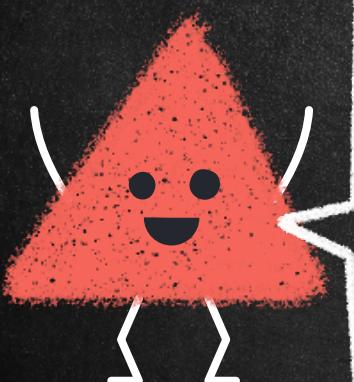
Questions?



APPENDIX:

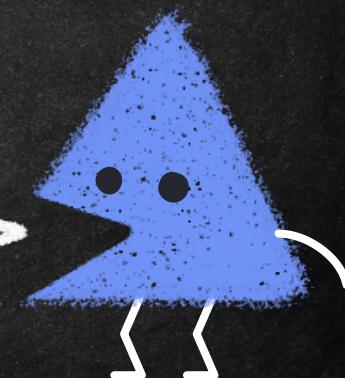
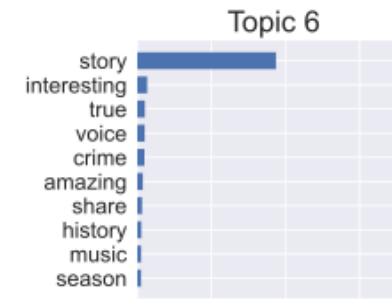
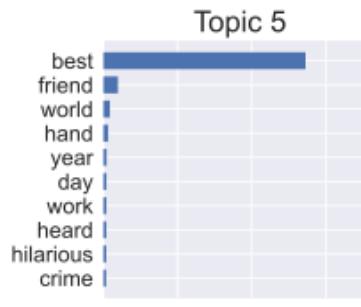
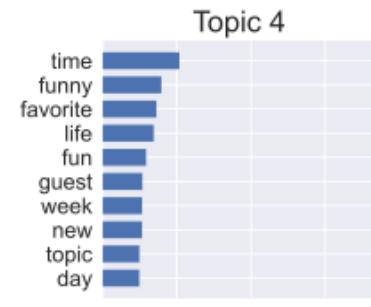
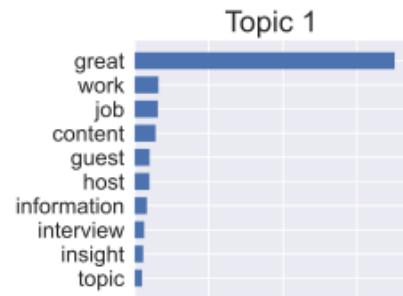
Words from Highly Rated Reviews

story come new want fun
think excited day favorite going
glad help insight truly feel like
family tell say start voice
laugh hope woman thought heard did
conversation need movie happy for
amazing point start recommend
business good information share
definitely need topic wonderful
looking amazing informative learned
book host year right experience
loved doing bring humor learning
host great job week talking enjoy
interview make knowledge right hearing
bring interesting hilarious live
great job week interesting Doe
make look forward entertaining awesome
interview great work friend world friend
bring bring bring bring bring bring
make make make make make make
know hilarious live Doe
just great work friend world friend
just just just just just just
really guest content music
better



TOPICS WITH NOUNS, ADJECTIVES

Six Topics from NMF Topic Modeling



CREDITS:

- Presentation template by [SlidesCarnival](#)
- <https://www.kaggle.com/thoughtvector/podcastreviews>

