

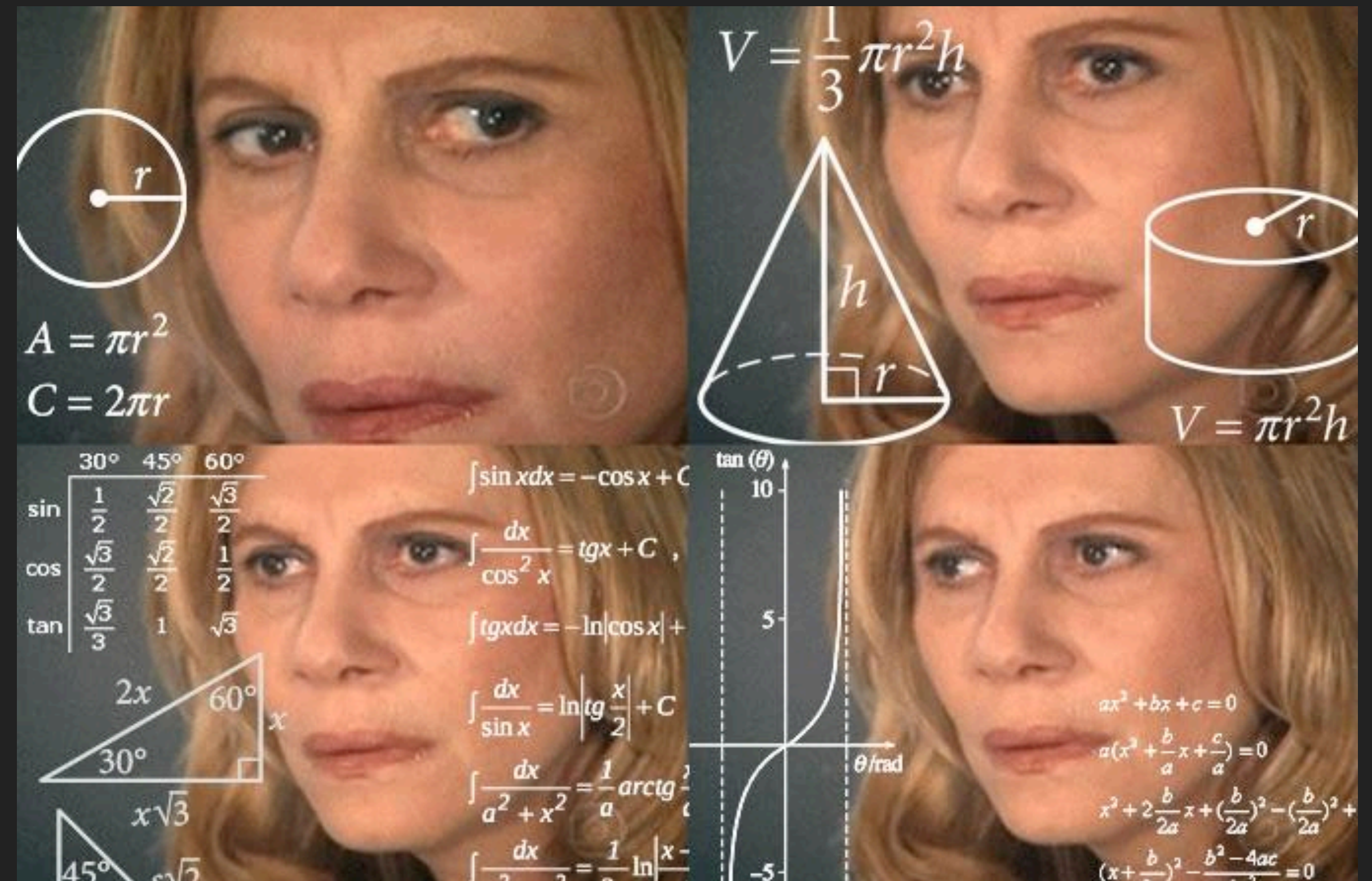
NATURAL LANGUAGE PROCESSING

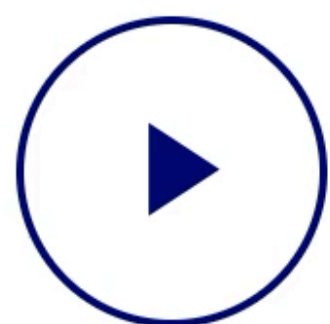
THIS AMERICAN LIFE

by Emmanuel Rodriguez

WHERE TO BEGIN?

- ▶ Getting started can be overwhelming
- ▶ What to listen to next?
- ▶ 2 Project Goals
 - ▶ What topics do they cover?
 - ▶ What are some personalized recommendations?

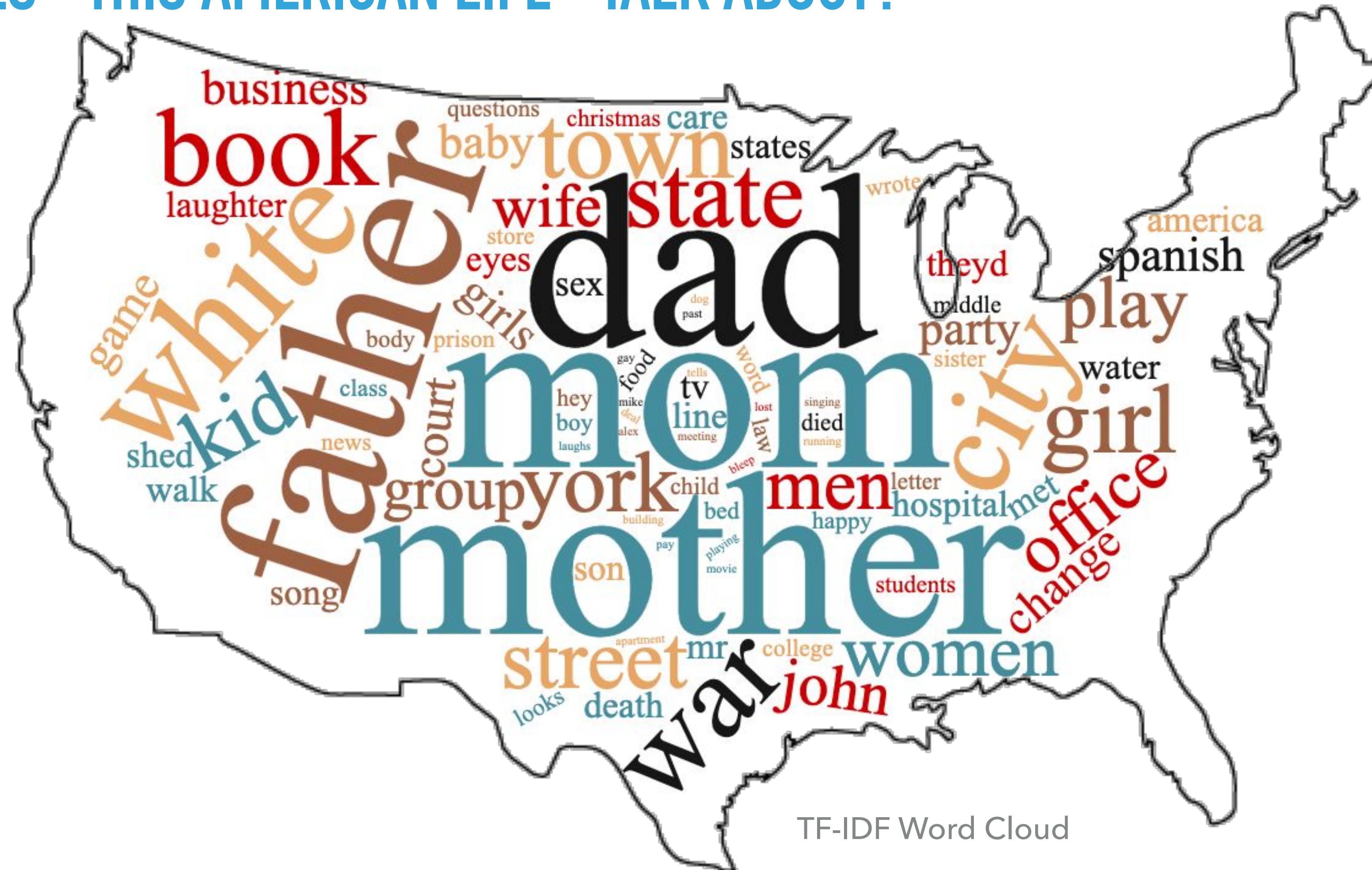




This Week: 717 September 11, 2020

Audience of One





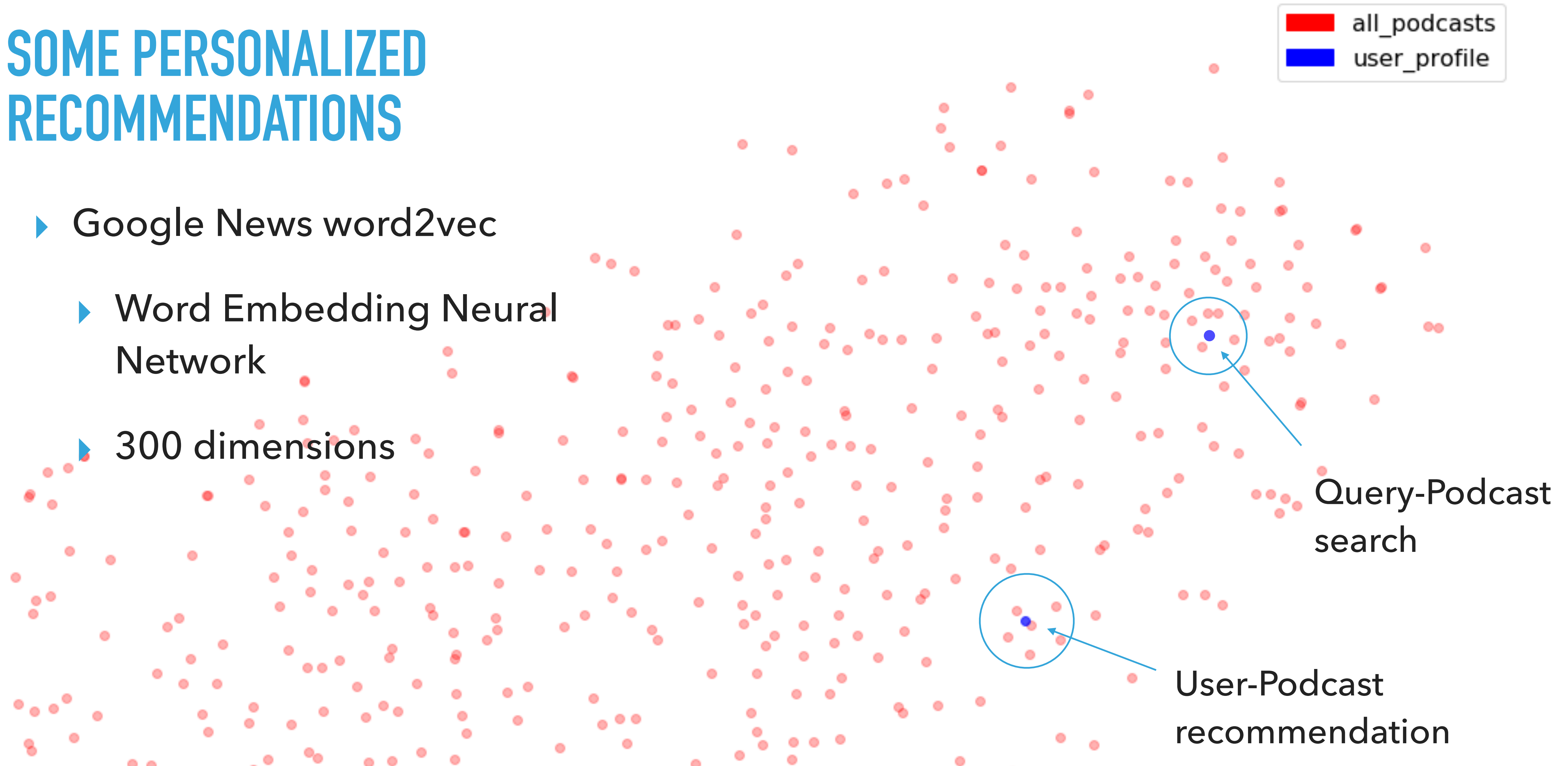
WHAT DOES “THIS AMERICAN LIFE” TALK ABOUT?

- ▶ Topic Modeling
 - ▶ TF-IDF & NMF
- ▶ Nine topics to define America...

Politics "president, government"	Immigration "spanish, ice"	Family "dad, mom"
Schooling "students, schools"	Crime/ Policing "police, crime"	War "war, military"
Food "chicken, eat"	Religion "christmas, church"	Misc. "music, play, girl"

SOME PERSONALIZED RECOMMENDATIONS

- ▶ Google News word2vec
- ▶ Word Embedding Neural Network
- ▶ 300 dimensions



Search for a Podcast

User ID

Enter user ID

We need this for personalized recommendations

Search

Enter search

Search

SUMMARY

- ▶ What is “This American Life”
- ▶ Useful categories for new comers like me.
- ▶ Create an app
 - ▶ Search
 - ▶ Personalized recommendations based on a user’s likes.



THANK YOU.

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