

Data Science to Support Foreign **Language Lessons**

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THE TRUTH ABOUT TEACHER WORKLOAD



= 2,200 hours per year

What's Our Goal?

- Lessons that inspire foreign language use
- Supporting teachers with researched and data driven lesson material

How Does Data Science Help?



Machine Learning to Support Language Learning

- Look at sources of cross-cultural conversation
- Find patterns in language use using computer models
- Give recommendations for topical lessons



Ask An American

Ask Europe

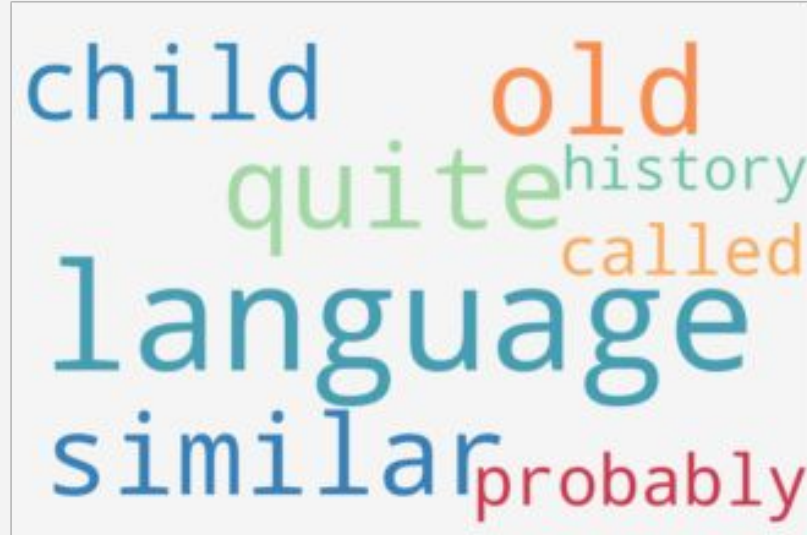
Which Subreddits Are These Words From?



Try again with the model's suggestions

Guy Edit
Amendment
StateTerm

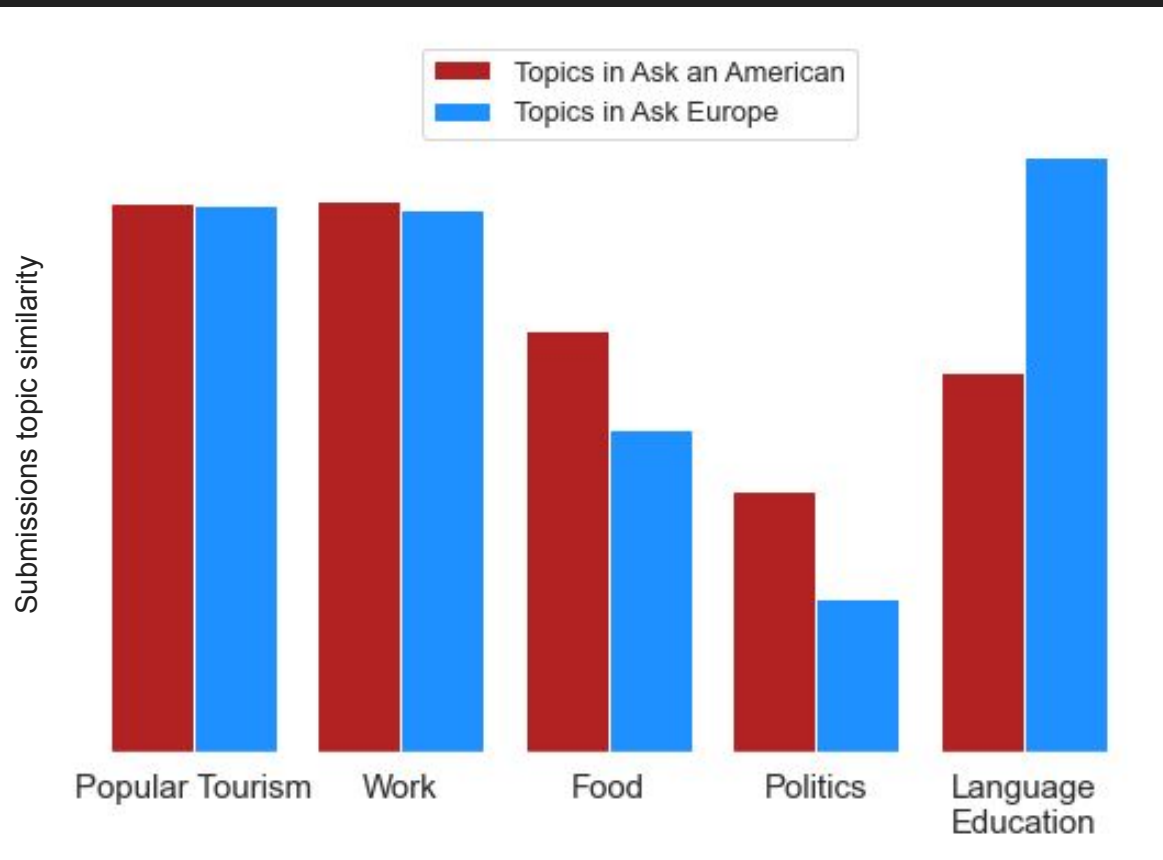
You may not guess this subreddit...



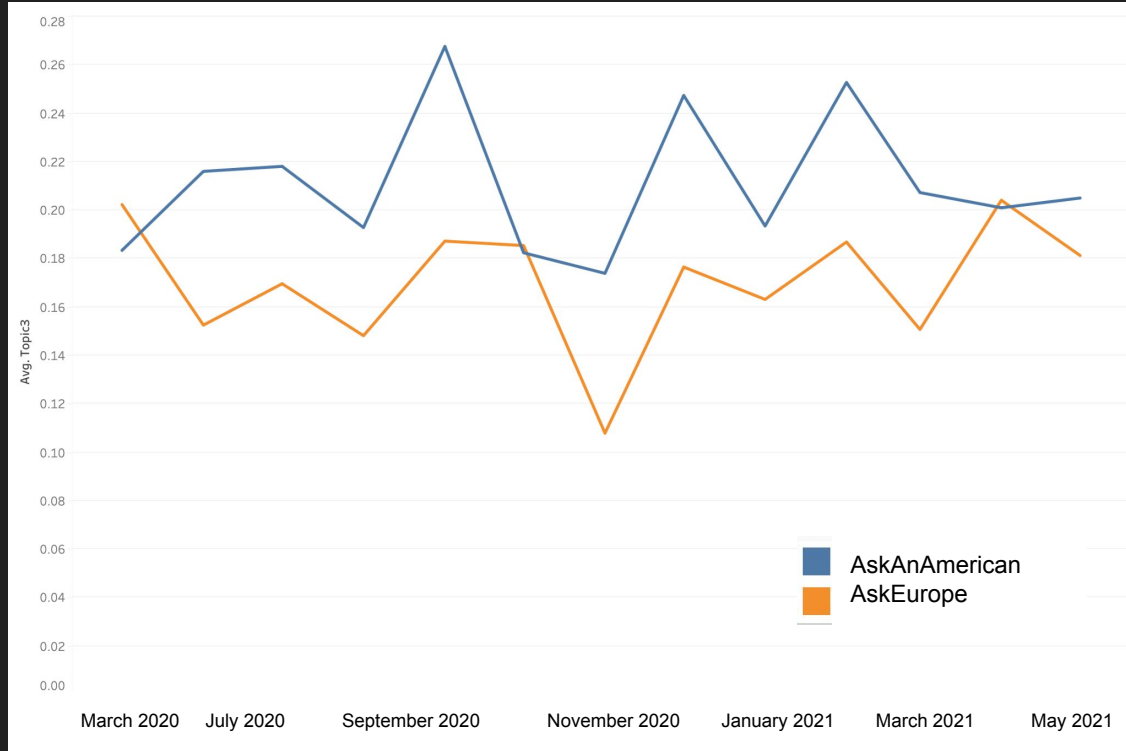
But our model can!

How about teaching about culture and
not just words?

I'm glad you asked!



Track Topics Over the Months: Politics



What does this all mean?



Your goals, Your Resources!

Our models can fit your needs

- Target words for each class objective
- Topic use for understanding cultural differences
- Study abroad preparation based on common questions

Future Models For New Language Exploration

- Expand to other languages
- Topics and slang over time
- Topics that get the most discussion
- Communication styles that get the most replies

[illegible]