



Motivation



How do people talk about math?

Goal



Lots of hate

Data

9,000' tweets

Keyword 'math'

Scraped on 11/2 11/3 11/5

Sentiment analysis

Vader

Topic Modeling

TF-IDF Vectorizer

NMF



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Expected



'bad', 'grade', 'fumbles'



Math Teacher:

'teacher', 'grades', 'test'



Hate Math:

'hard', 'crying', 'stressed'



Math is hard:

'hard', 'huh', 'guess'



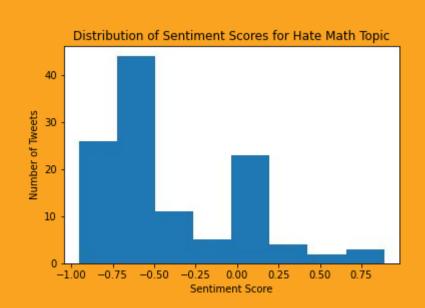
Needing Help:

'help', 'need', 'homework', 'pls'



Sentiment -Hate math

Mean Sentiment score = -0.41



Not so Expected



'love', 'test', 'got', 'super', 'enjoy'



'science', 'english', 'red', 'blue', 'green'



'pay', 'calculus', 'assignment', 'statistics'



'hes', 'reason', 'think', 'wake', 'character', 'breathe'





Gaara is NOT a 2D character, It's an emotion, He's the reason i wake up in the morning. He's what i think about in every boring math lesson. He's a reason to breathe.





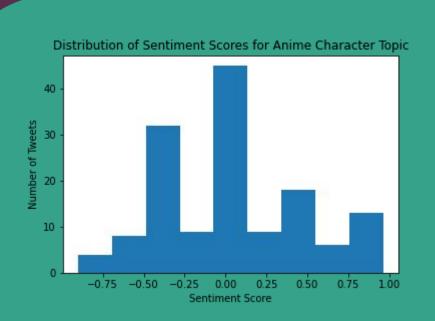
🧝 Astre 🌟 -_- 💧 @Phantomastre_ · Nov 1

Ciel is NOT a 2D character. It's an emotion. He's the reason i wake up in the morning. He's what i think about in every boring math lesson. He's a reason to breathe. twitter.com/madaragf/statu...

Distribution of Sentiment Scores for Anime Character Topic Number of Tweets 10 0.75 Sentiment Score

Sentiment Anime character

Mean Sentiment score = 0.03



Sentiment Anime character

- Mean Sentiment score = 0.03
- Meme Sentiment score = -0.32



Did the math:

'did', 'wrong', 'work', 'failed'



Election:

'Trump', 'Biden', 'votes', 'win', 'count', 'million'







'did', 'wrong', 'work', 'failed'



Election:

'Trump', 'Biden', 'votes', 'win', 'count', 'million'







Did the math:

'did', 'wrong', 'work', 'failed'



Election:

'Trump', 'Biden', 'votes', 'win', 'count', 'million'







Did the math:

'did', 'wrong', 'work', 'failed'



Election:

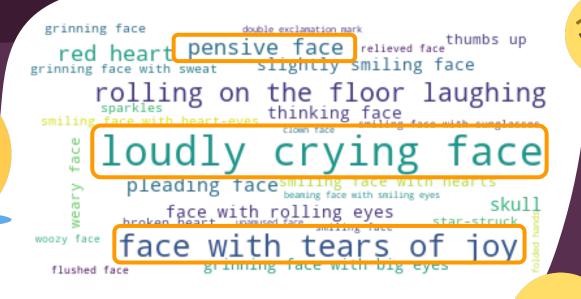
'Trump', 'Biden', 'votes', 'win', 'count', 'million'



Understand basic math:



Common Emojis!





Expected











Expected











Expected



Used for insults







Expected





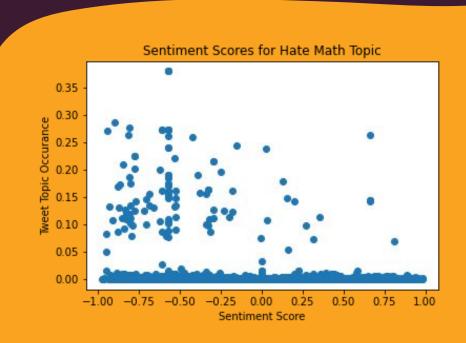


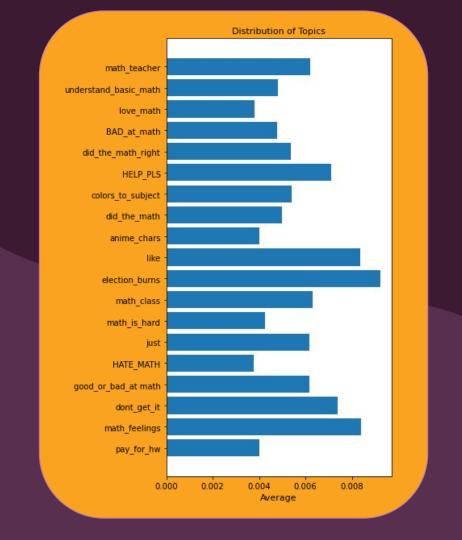


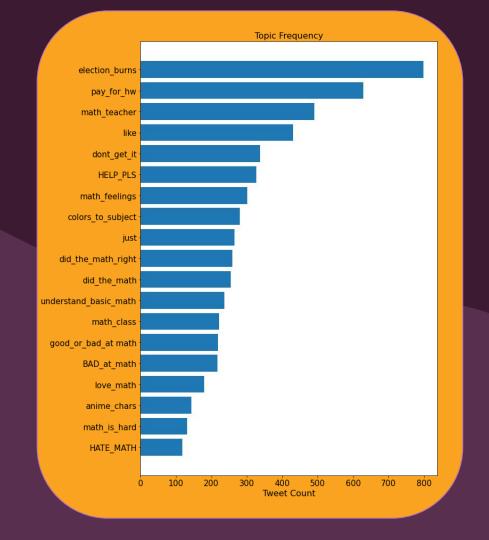


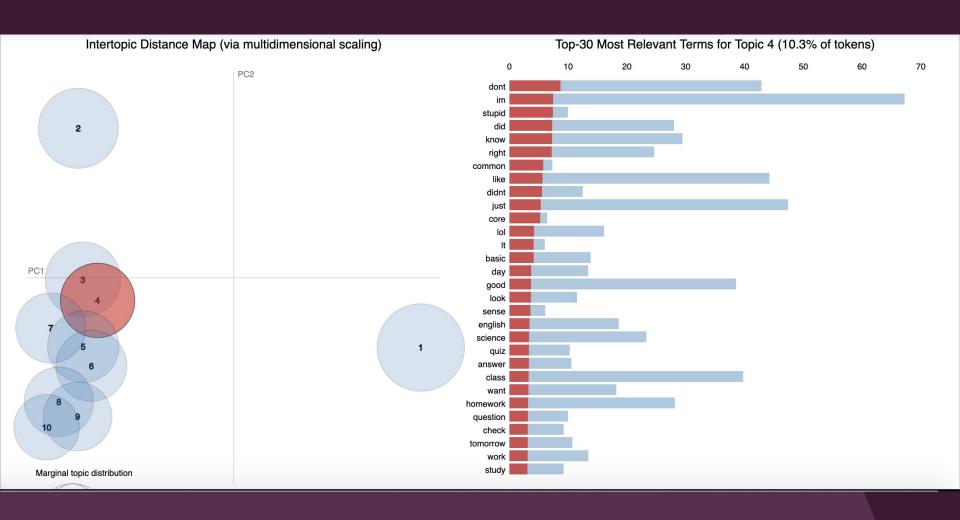
Questions?

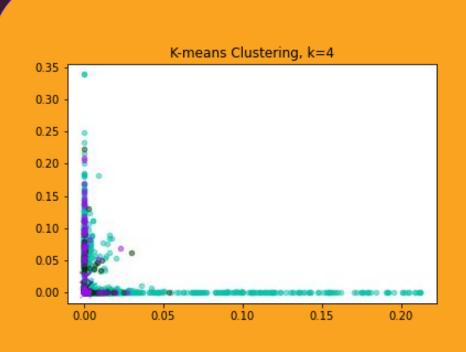
Appendix











Future Work

More emojis analysis

♦ Special events in time

