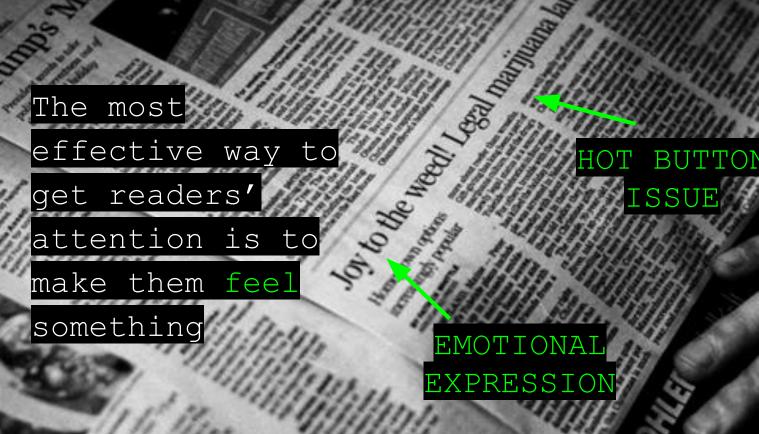


FRONT PAGE

Dr. Kelly Epley





Countries companies THE RESERVE OF scious admissions, their kept artificially low to Authorit Fisher, a with pore demographically low to ampus. A lawsuit pending tukan who has sue Princeton alleges dis University of Texas instrom on grounds that ar mut admitting her. ins from other ethnic or racia the policy that lee ms were admitted with lesse her rejection also pstials. The Department of Asian Americans entian's Office for Civil Right received complaints last year phomore who is ha st Princeton and, since with d of her high school had white friends the other hand, Filipine Sgling and minor dians, Pacific Islanders a were doing just fi sian-Americans contin Varghese, an In at from policies that to wyer and activ she hoped into account. rotic nov CANCER? Tales of Fi ar to seem 22 million now A few contents on the party forms NOT THE PARTY OF THE PARTY.

Research shows:



Research shows:



 Negative emotion headlines are quicker to go viral¹

Research shows:



- Negative emotion headlines are quicker to go viral¹
- Positive emotion
 headlines get more
 social media
 interactions over
 time²





front_page

- Collects headlines from news websites
- Supplies a detailed report and summary of the emotion content

FRONT PAGE DEMO:



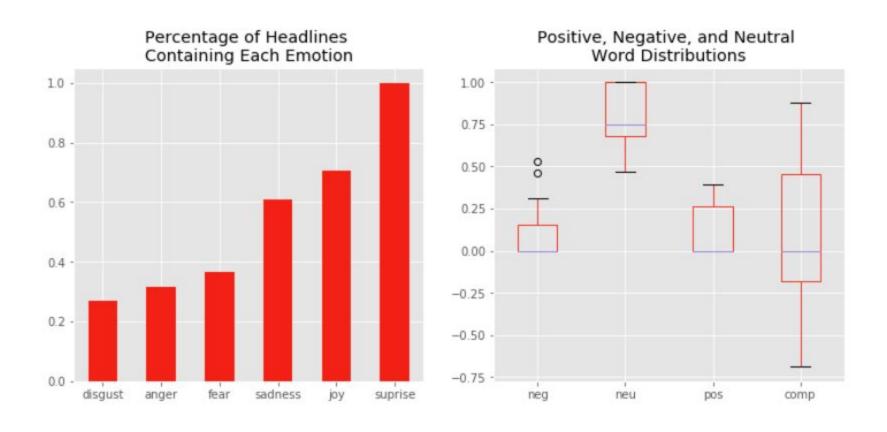
```
The Trouble With Being an Asian Guy on Tinder

⇒ Joy:91.0%

   Surprise:83.0%
Word Polarities:
{'neg': 0.252, 'neu': 0.748, 'pos': 0.0, 'compound': -0.4019}
Chance the Rapper Does Not Want to Perform as a Hologram After He Dies
   w Anger:68.0%
    Disgust:71.0%
   Fear:83.0%
      Jov:53.0%
    Sadness: 98.0%
    Surprise:81.0%
Word Polarities:
{'neg': 0.086, 'neu': 0.773, 'pos': 0.141, 'compound': 0.1969}
What's So Scary About Our Likely Next Director of National Intelligence
    @ Fear:68.0%
    Sadness:86.0%
   Surprise:76.0%
Word Polarities:
 {'neg': 0.224, 'neu': 0.577, 'pos': 0.199, 'compound': -0.101}
It's Startling How Much Veronica Mars Anticipated #MeToo

⇒ Joy:73.0%

   Sadness:81.0%
   Surprise:84.0%
Word Polarities:
{'neg': 0.0, 'neu': 0.843, 'pos': 0.157, 'compound': 0.0772}
```





Lexicons such as <u>WordNet</u>

- Lexicons such as <u>WordNet</u>
 - o 85% label correspondence!

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 - ... when the lexicon words are present

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- Lexicon words:

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- Lexicon words:
 - O Were present in less than 10% of data

- Lexicons such as <u>WordNet</u>
 - o 85% label correspondence!
 - ... when the lexicon words are present
- Lexicon words:
 - O Were present in less than 10% of data
 - Usually couldn't catch multiple labels

Can we automate emotion detection?

- With a lexicon alone:
 - o Jaccard Score: 0.02

Can we automate emotion detection?

- With a lexicon alone:
 - o Jaccard Score: 0.02

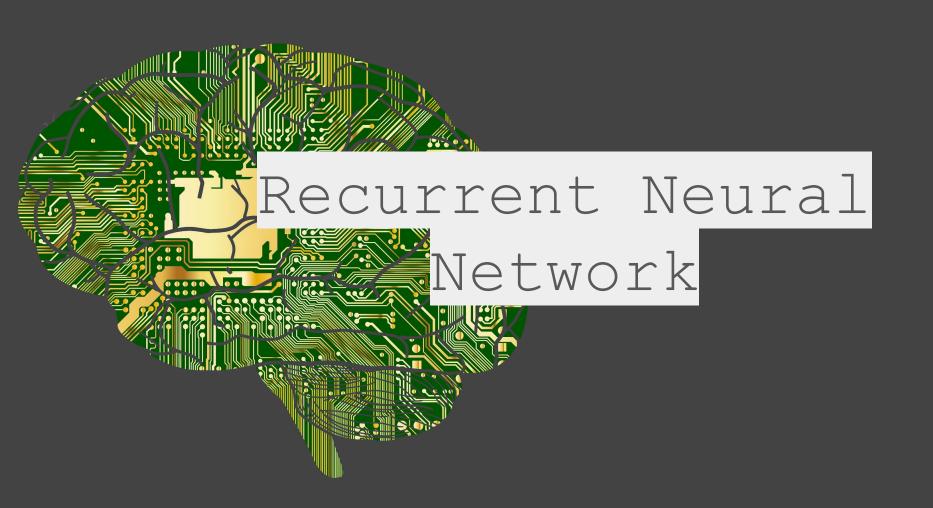
JACCARD SCORE: # of correct labels out of total predictions

Can we automate emotion detection?

- With a lexicon alone:
 - o Jaccard Score: 0.02

JACCARD SCORE: # of correct labels out of total
predictions

We can do better...



 RNNs are ideal for natural language processing

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- RNNs are ideal for natural language processing
 - O Designed to handle sequential data
 - Long Short Term Memory layers retain information about previously seen data
 - O Capable learning how emotion language works: words, syntax, and context

Jaccard Scores

- Lexicon: 0.02
- RNN: 0.71

Jaccard Scores

• Lexicon: 0.02

• RNN: 0.71



front page()

source attribute:

- 4 options:
 - o 'npr'
 - o 'slate'
 - o 'fox'
 - o 'breitbart'

methods:

- get headlines
- details
 - o label scores
 - o <u>VADER</u> valence
- summary

Thanks



FRONT PAGE

is on <u>Github</u>