

Nam

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The Evolution of Beliefs
In Natural Language
Conversations

Complex Systems Summer School 2018
Santa Fe Institute

1. Intro

Simon Jankowski & Niccolo Pescetelli



State-of-the-Art

- Topic modeling:
 - Mapping text to topic space
- Sentiment analysis:
 - Mapping text to affective space

What about opinions?

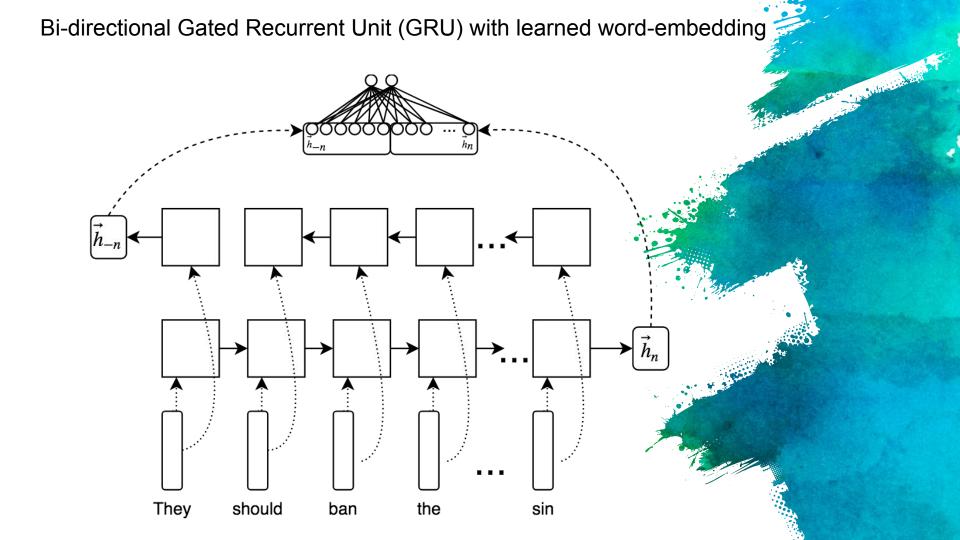
- 1. "I think climate change is a hoax"
- 2. "I think climate change is upon us"

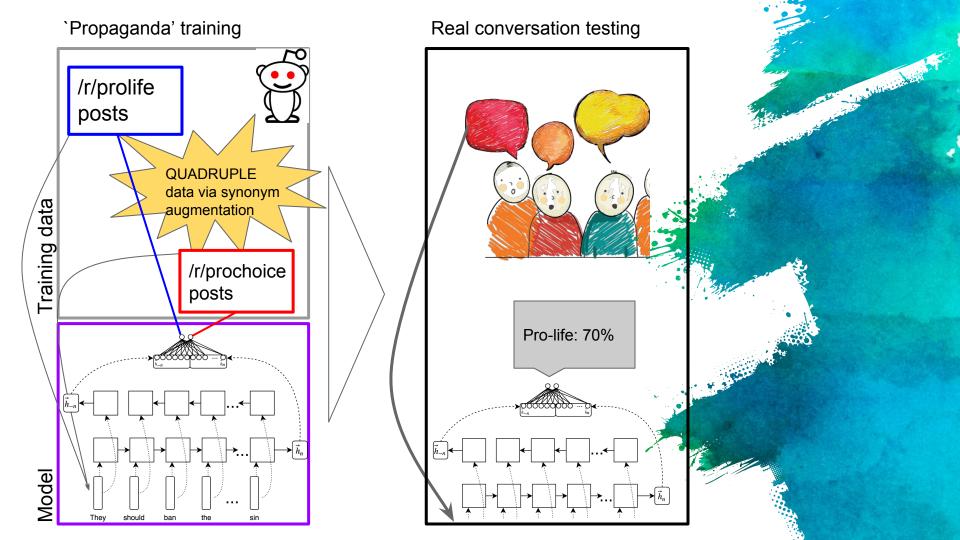


2. Methods

Yuki Asano & Nam Le







3. Live Demo

JP Gonzales & Paul Hooper



Let the show begin!

Reddit conversation simulation

with:

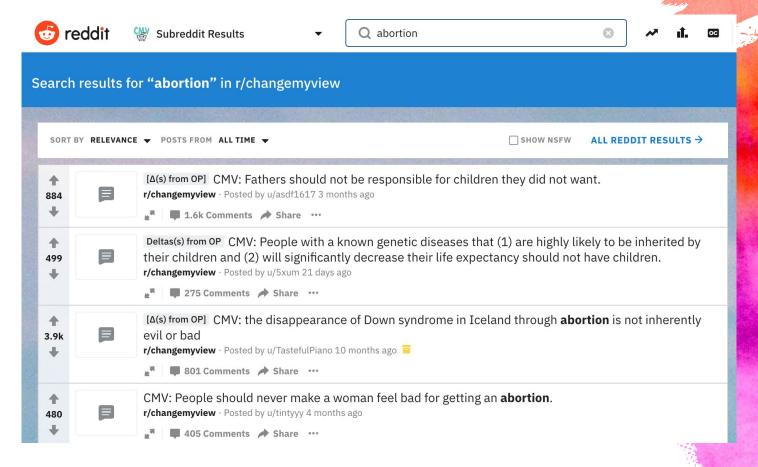
Paul Hooper as Revd. Miller JP Gonzalez as Mrs. Zuckerbaum

4. Application /r/changemyview

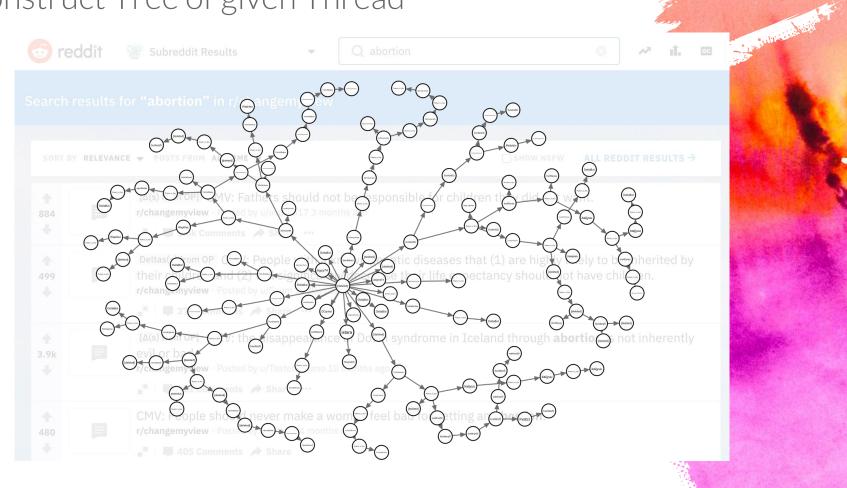
Jonas Haslbeck & Andrés Ortiz-Muñoz



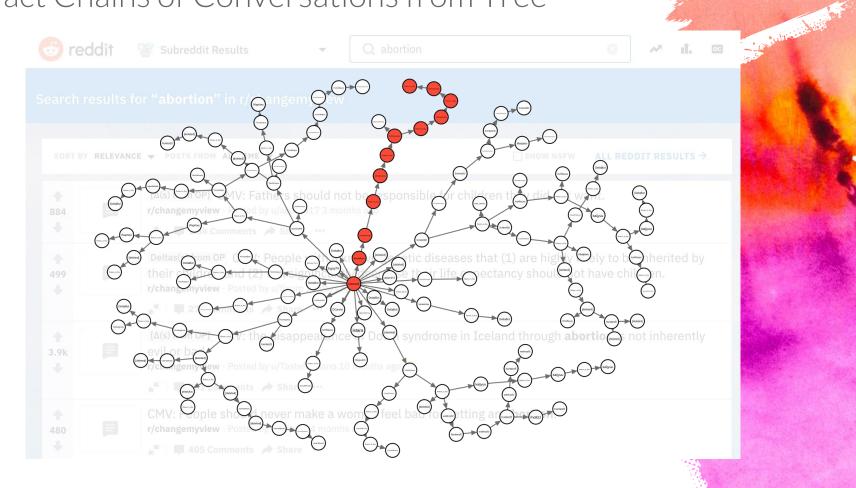
Threads from Reddit/changemyview on abortion



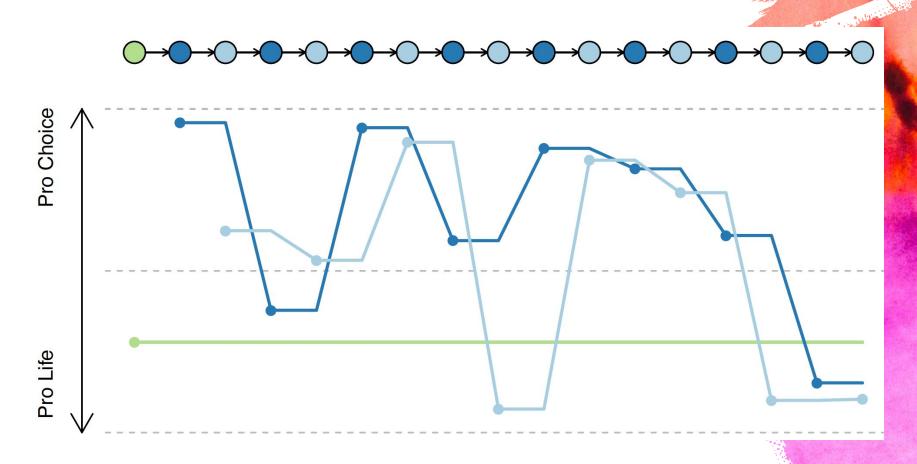
Reconstruct Tree of given Thread



Extract Chains of Conversations from Tree



Analysis of Single Conversation Chain



5. Future Directions

Everyone





Niccolo Yuki Simon Andrés Jonas Nam

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