

Seminar:

Introduction to Computer-Based Text Analysis (S2022)
Poster Presentation by Li

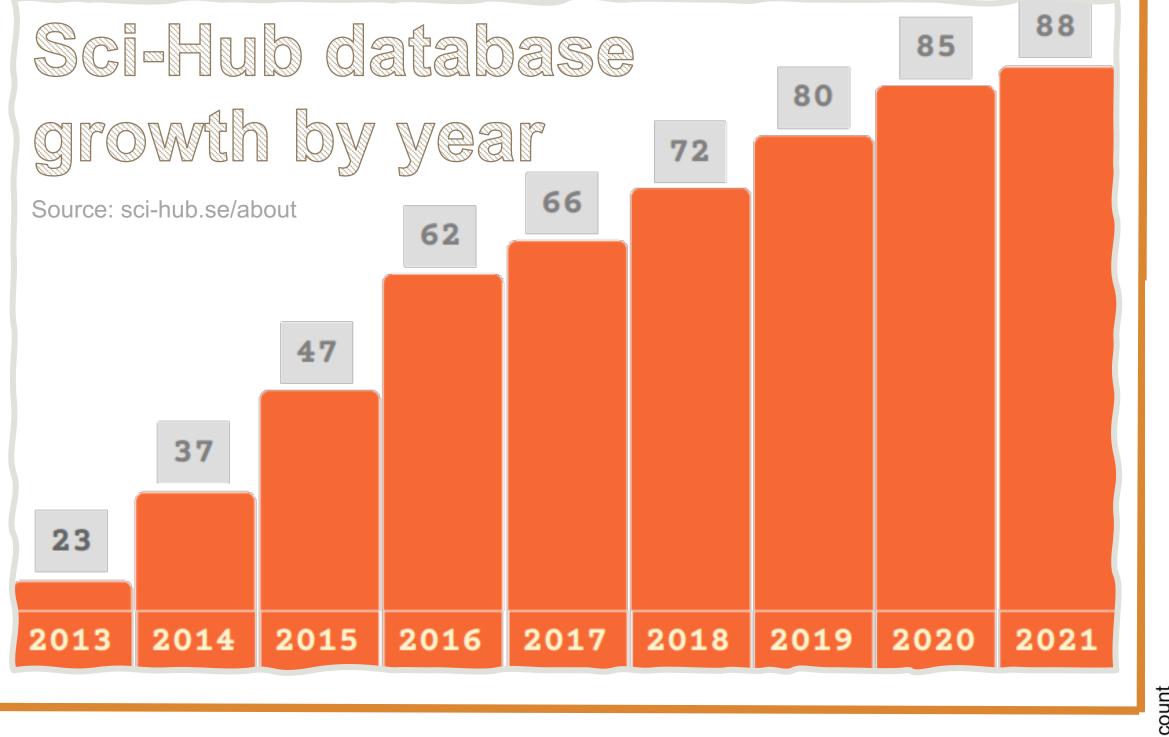
Background: "Many users can access the same papers through their libraries but turn to Sci-

Hub instead—for convenience rather than necessity" ① (Bohannon , 2016).





In 2015, Elsevier, the largest scholarly journal publisher filled and won a lawsuit in U.S. against Sci-Hub whose founder is Alexandra Elbakyan.



013	2014	2015	2016	2017	2018	2019	2020	2021
What the analysis includes?								
Sentiments					Polarity of attitude among texts			
Emtions in all texts					Proportion of words associated with each emotion in the text • all, news and academe			
Emotions in pre&post texts					texts of pre-five and post-five words around "sci-hub"			

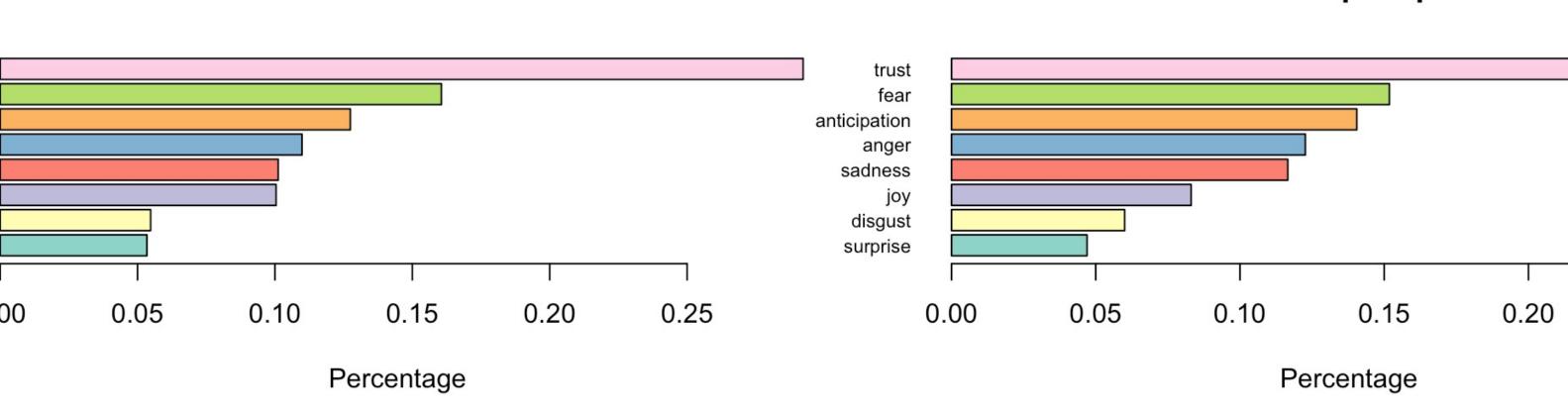
Emotions in all text

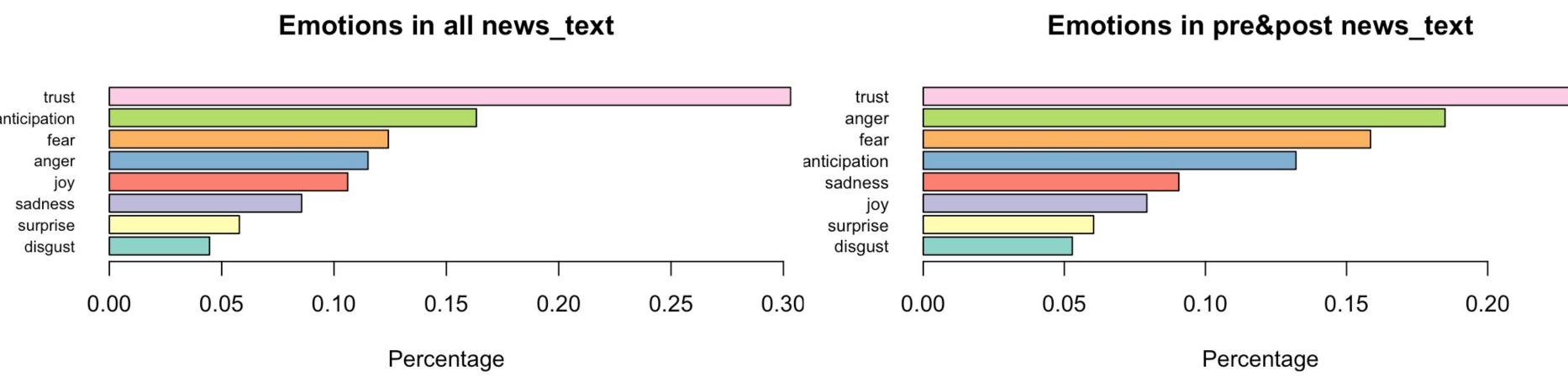
Sentiment Analysis by using NRC Word-Emotion Association Lexicon (aka EmoLex) All Texts N&P Counting Pre&Post Texts N&P Counting 1200 900 sentiment positive positive positive positive

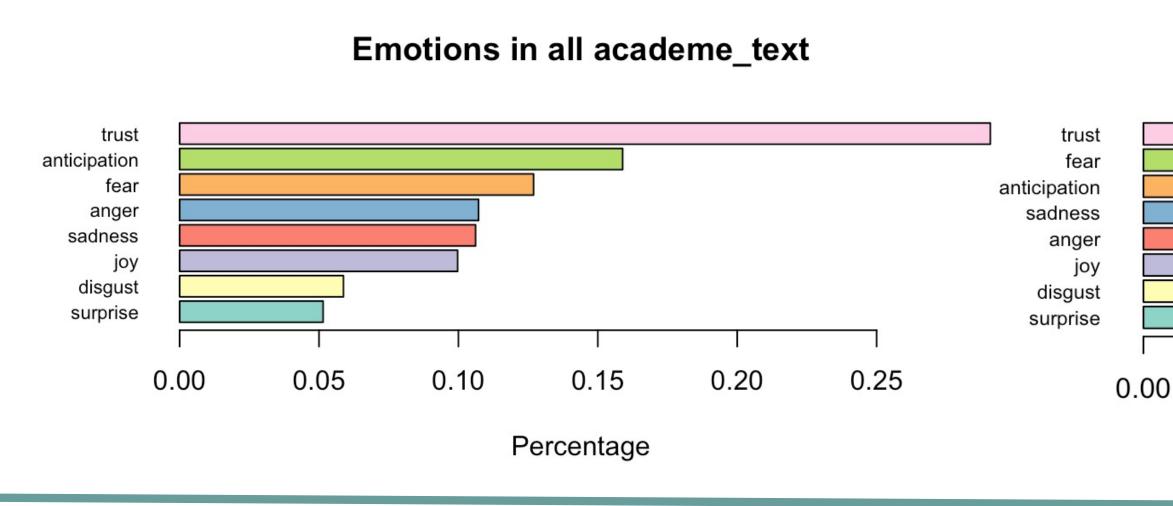
Emotions in pre&post text

0.25

trust anticipation fear anger sadness joy disgust surprise 0.00 0.







0.05 0.10 0.15 0.20 0.25

Emotions in pre&post academe_text

Percentage

Limitation

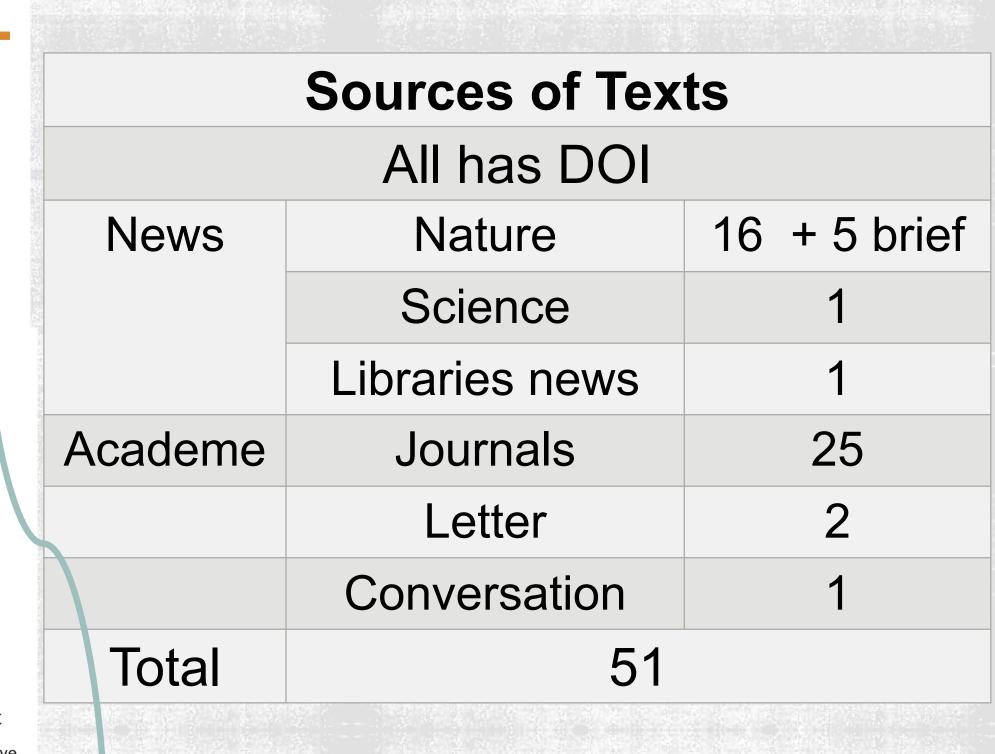
- ☐ The absence of neutral sentiment.
- ☐ The variability of language among texts.
- ☐ The incapacity of computer programs: sentiment is difficult to classify.

Conclusion: tension in the digital era

- The texts in the context of effects by Sci-Hub from academic writing demonstrate a quite positive sentiment overall [Trust as first; Anticipation as second].
- ❖ The descriptions around the texts of Sci-Hub include a anger or a fear emotion as the second largest percentage throughout the texts.

Sentiment Analysis On

Academic Texts About Sci-hub

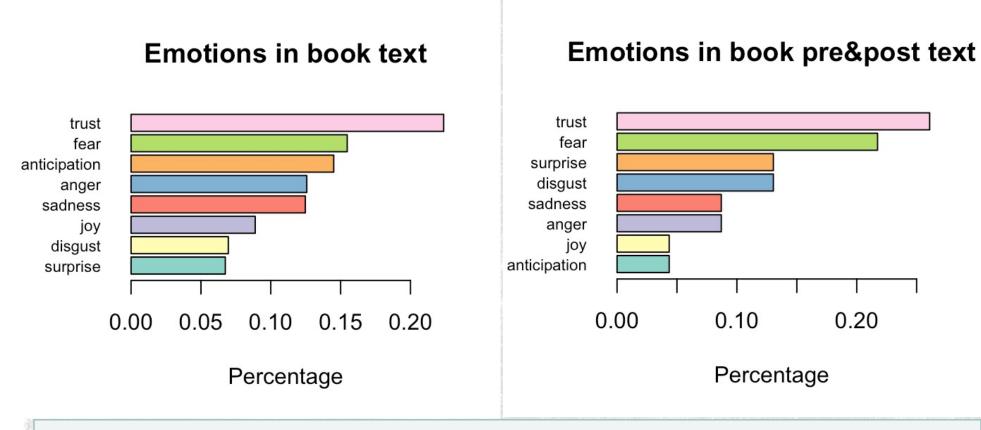


First word-emotion association lexicon, with entries for 8 basic emotions (anger, fear, anticipation, trust, surprise, sadness, joy, and disgust) and 2 sentiments (negative and positive). (S. Mohammad, n.d.).

Also, one book

Shadow Libraries:

Access to Knowledge in Global Higher Education



It talks about

- > Informal networks of sharing materials
- > (Organized archives) circulating offline and online
- Universalist in principle and unequal in practice

(Karaganis, 2018)

References

Bohannon, J. (2016). Who's downloading pirated papers? Everyone. *Science*, *352*(6285), 508–512. https://doi.org/10.1126/science.352.6285.508

Karaganis, J. (Ed.). (2018). Shadow Libraries: Access to Knowledge in Global Higher Education. MIT Press.

Mohammad, S. (n.d.). NRC Emotion Lexicon. Retrieved

June 21, 2022, from https://saifmohammad.com/WebPages/NRC-

Emotion-Lexicon.htm

¹ A "scraping" program goes to Sci-Hub, with requests showing Michigan State University (MSU)'s IP addresses, and downloaded papers from chemistry journals, in which MSU already subscribes to these journals.