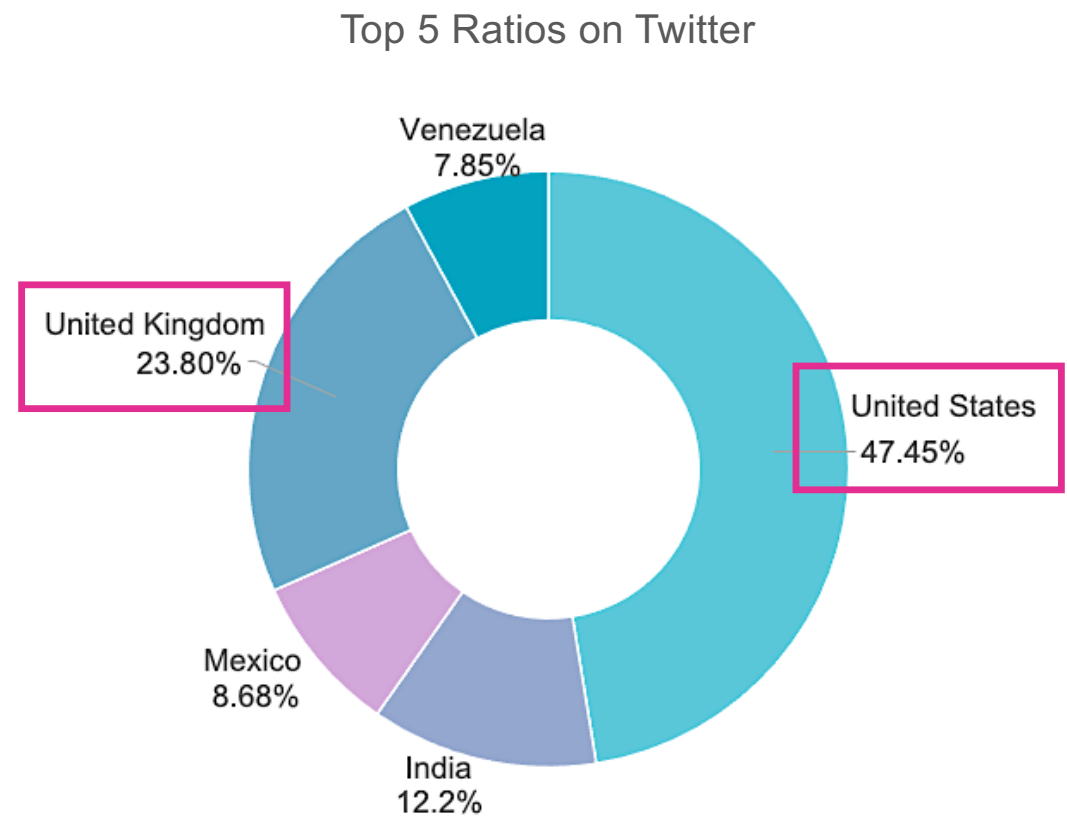
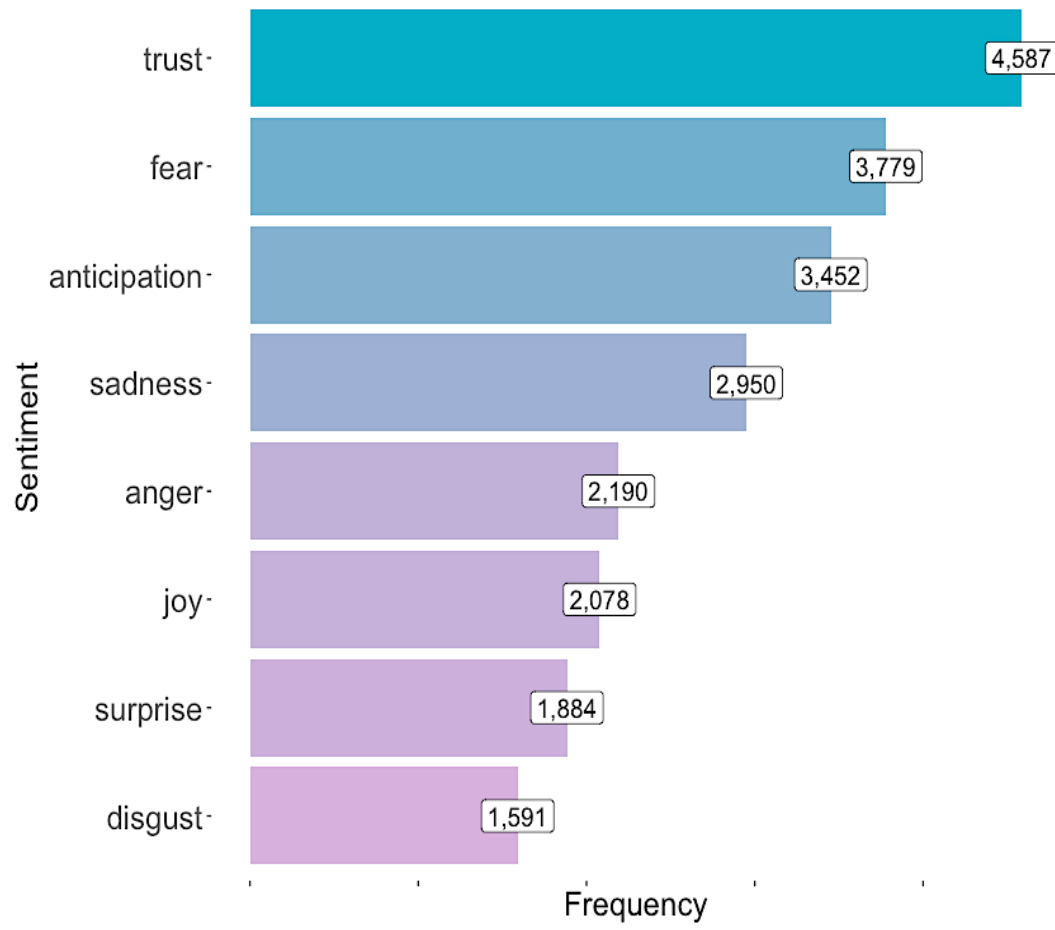


Analysis on Twitter Sentiment Dynamics during Covid-19

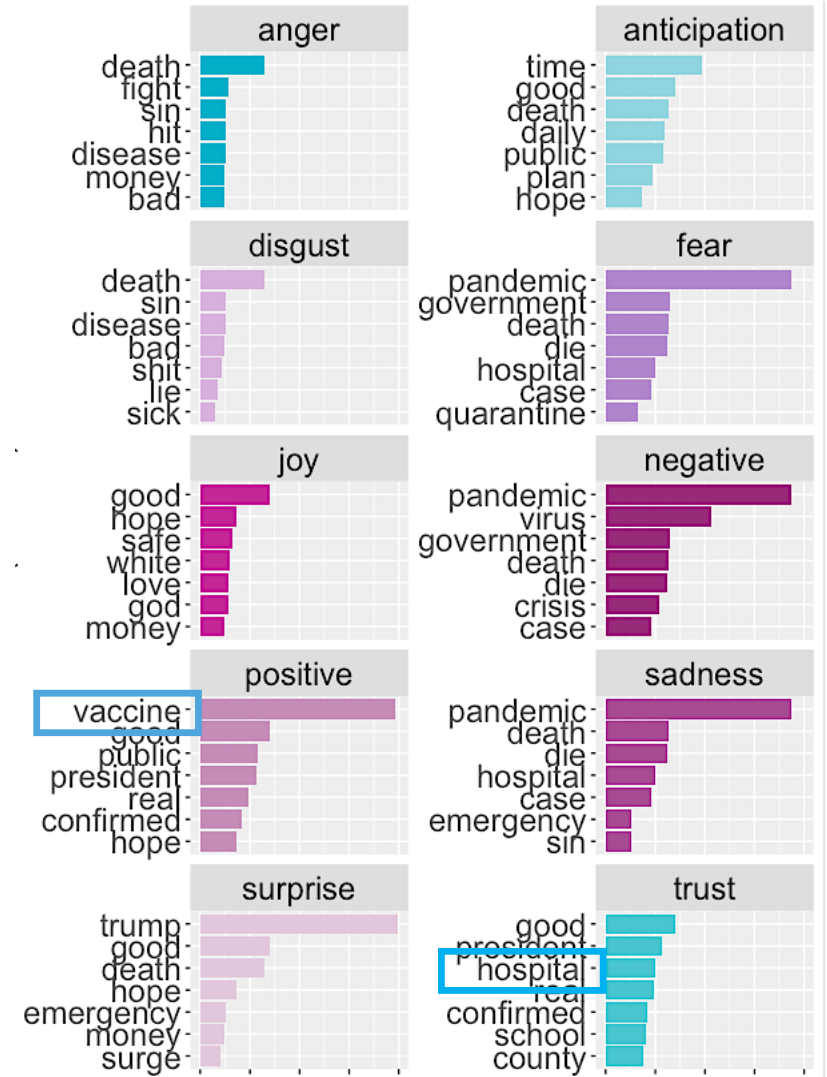
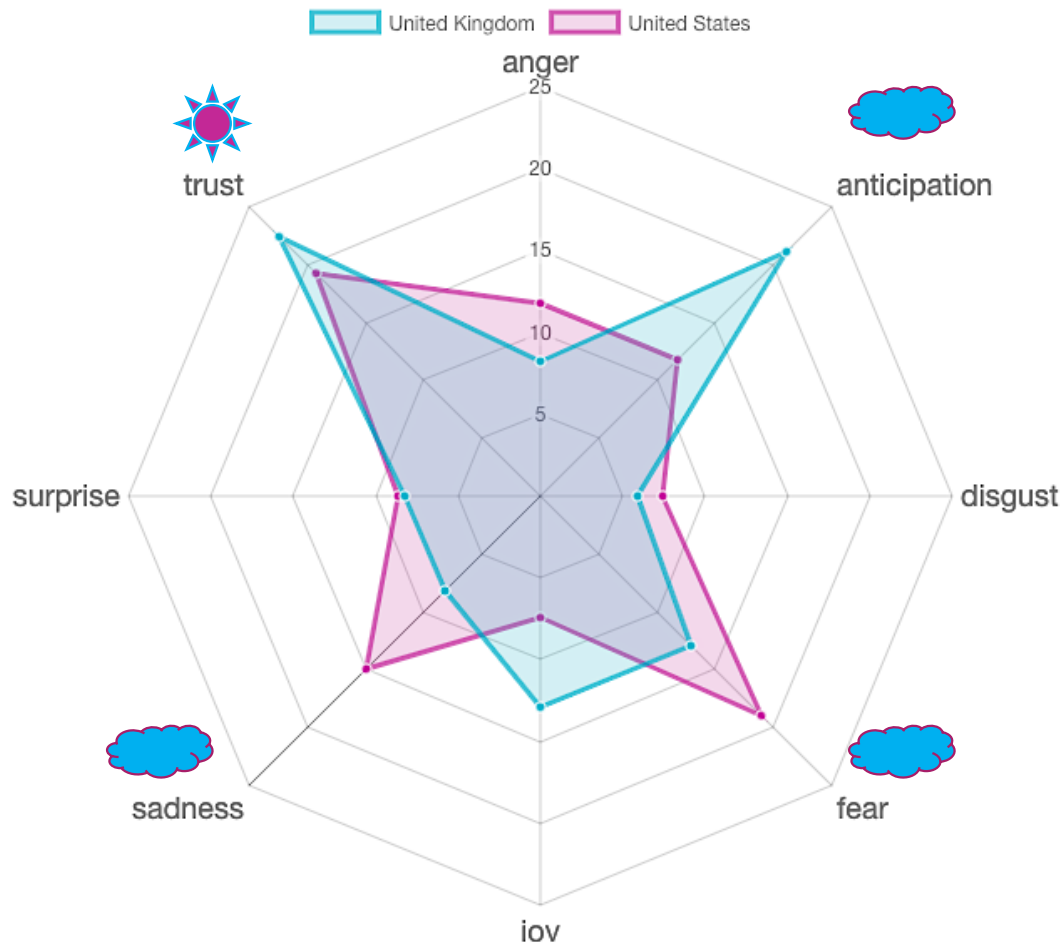


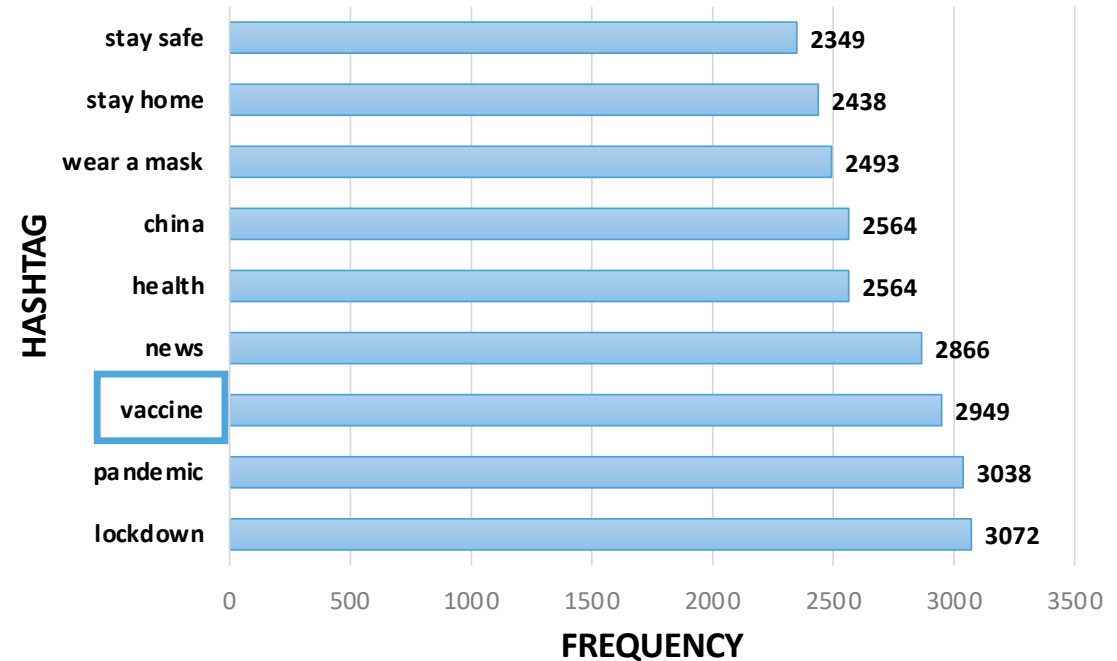


Global Mood Pattern Captured by Twitter



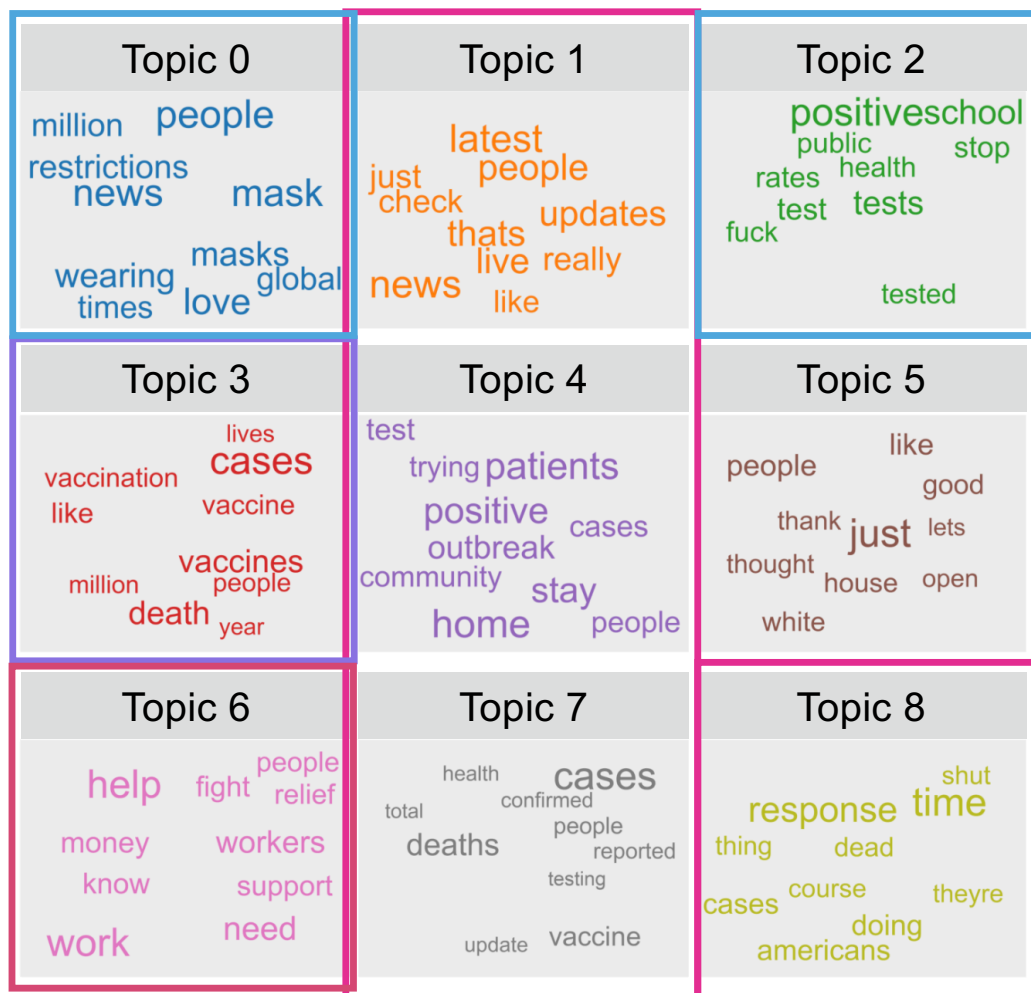
Twitter Sentiment in the US and UK





- ❖ **Vaccine, job, and business** are frequently discussed during the outbreak

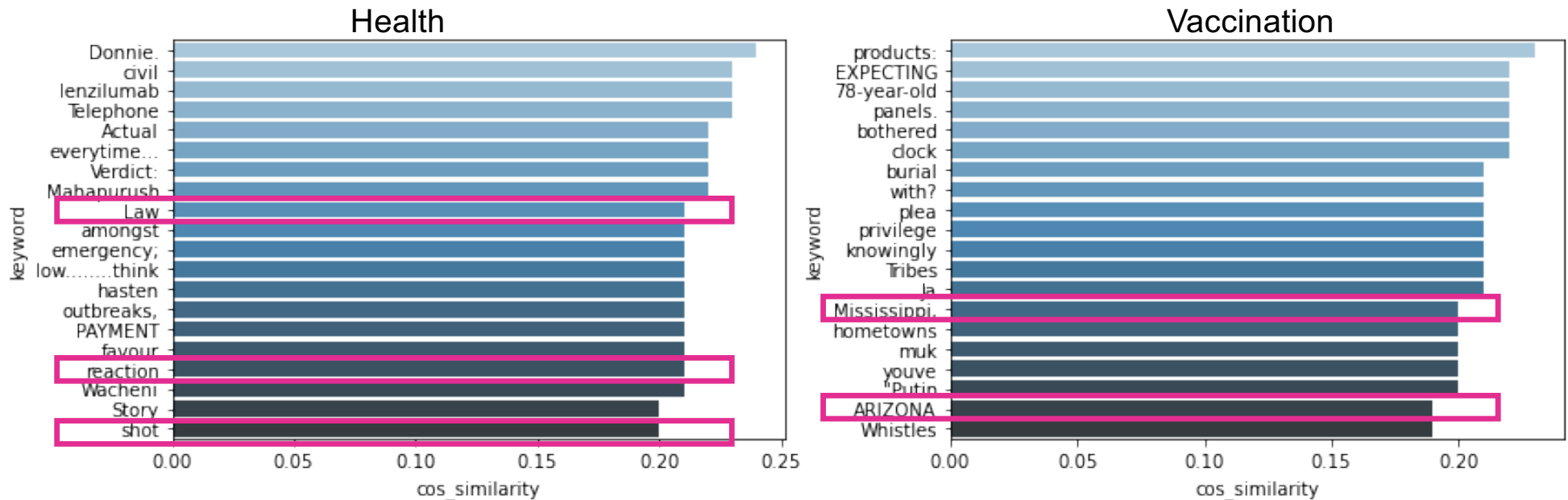
Topic Modeling on English Tweets



- ❖ **Concern** and **anxiety** about pandemic
- ❖ Heated discussion on **vaccines**
- ❖ **Restrictions** on study and work
- ❖ Need of **financial and mental support**



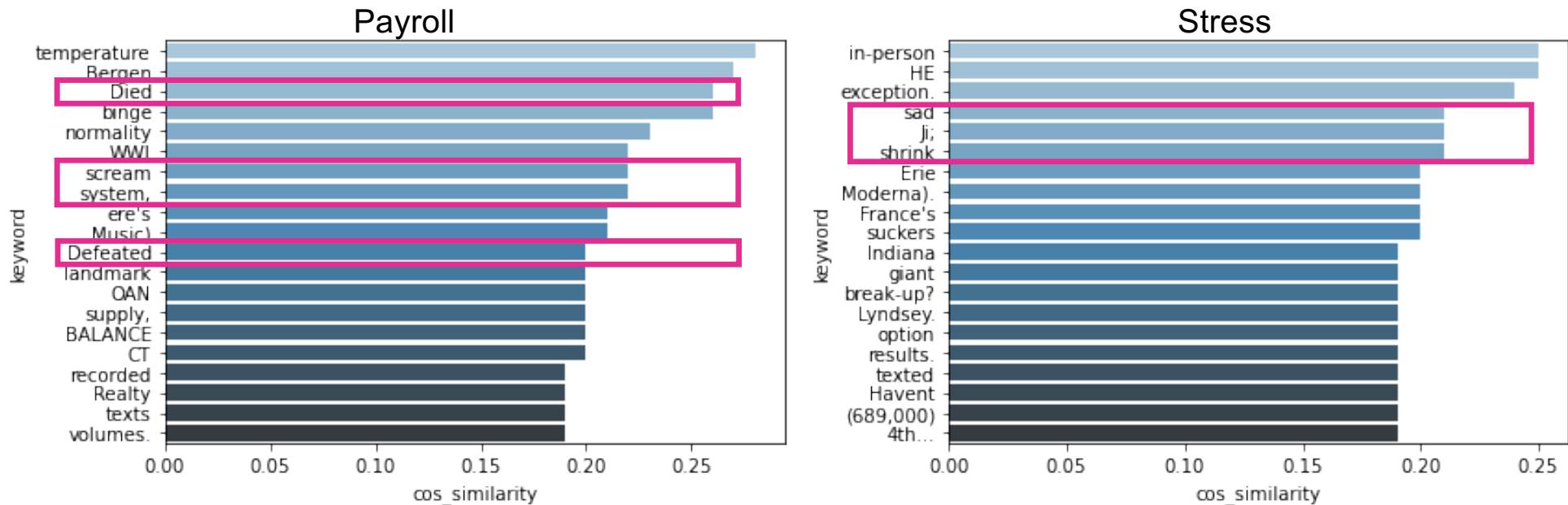
Keywords Deep Dive on Pandemic Healthcare Topics



- ❖ Law: State legislations on **mask-mandate** & employee **vaccine** mandate
- ❖ Reaction: Users react to **laws/incentives**, like mask-mandate or vaccine reward



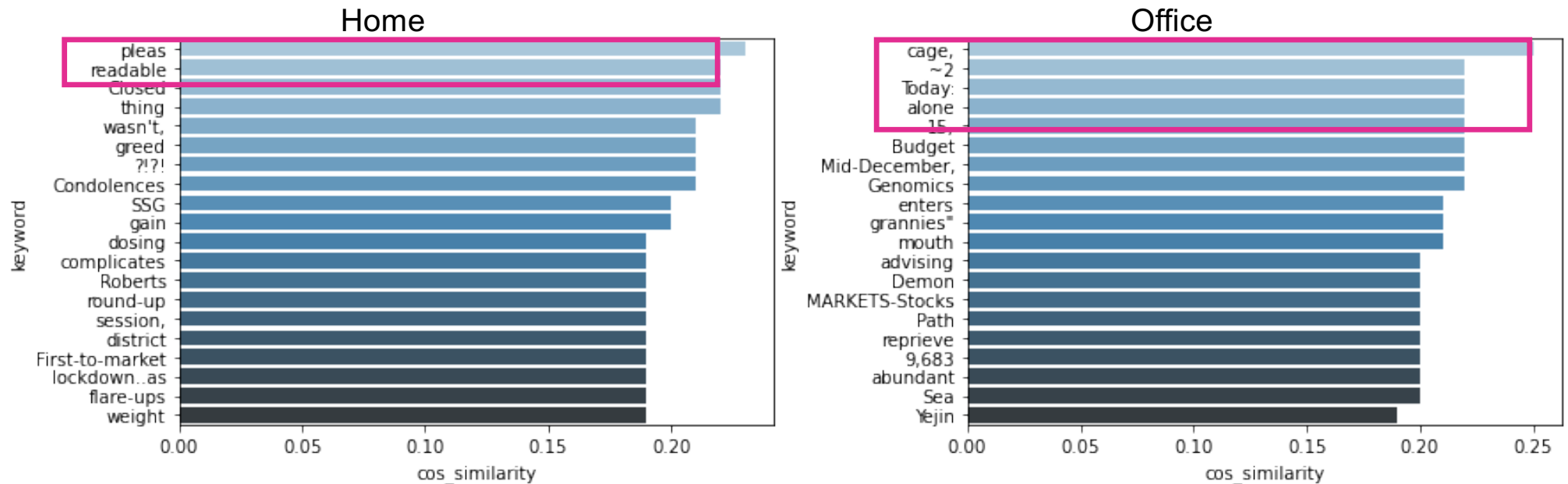
Keywords Deep Dive on Financial and Mental Needs



- ❖ Payroll: “Died”, “Defeated”, “scream”, and “system” are associated with individual and corporate **financial conundrums**. Hard to continue payroll.
- ❖ Stress: **Negative Feelings** and “shrink” in economics.



Keywords Deep Dive on Work Restrictions



- ❖ Working from home seems to generate “pleasing” sentiments compared with working in offices. People associate offices as cages.



Business Applications



Health Monitor System

- ❖ Health condition monitor
- ❖ Vaccine record update
- ❖ Policy announcements



Online Workspace

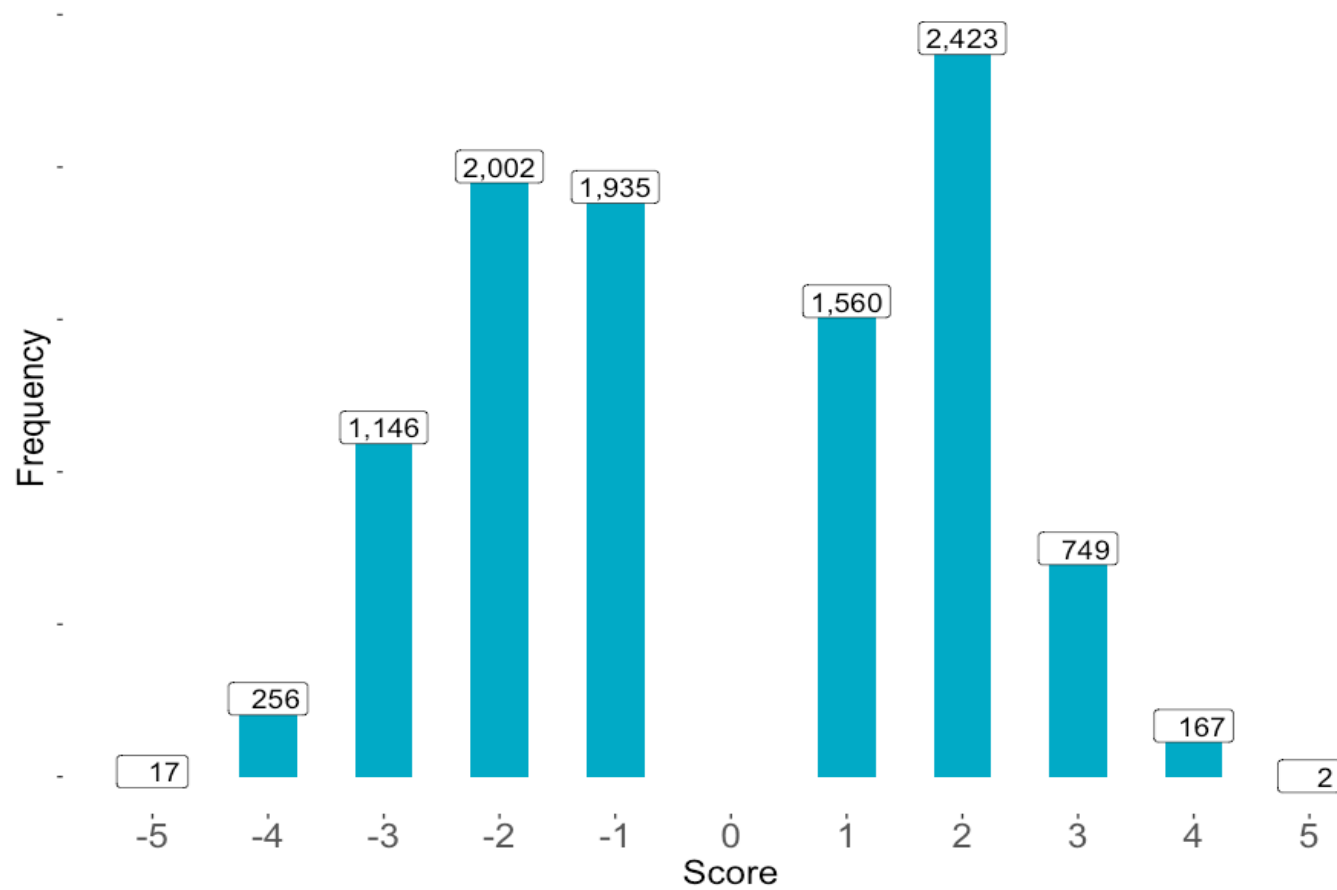
- ❖ Collaboration platform
- ❖ Daily work schedules
- ❖ Payroll & tax calculation



Wellness Program

- ❖ Emotional support
- ❖ Financial relief programs
- ❖ Online counselling

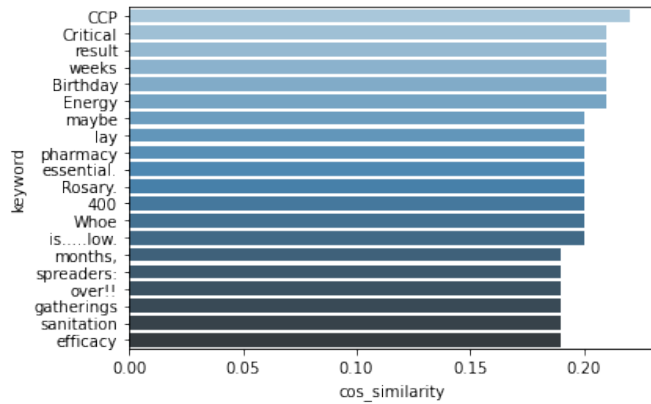
Appendix I: Overall Sentiment Intensity



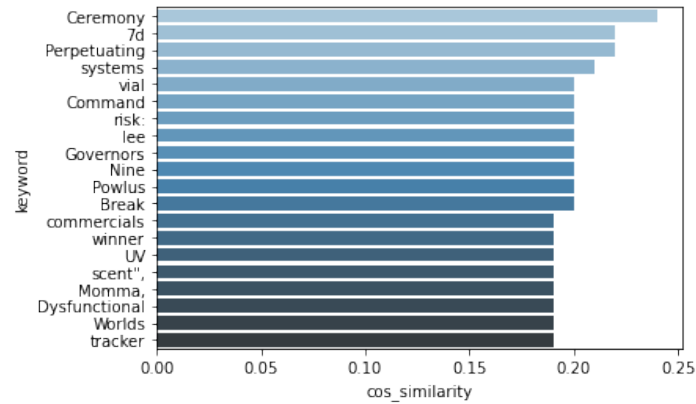


Appendix II: Word2vec

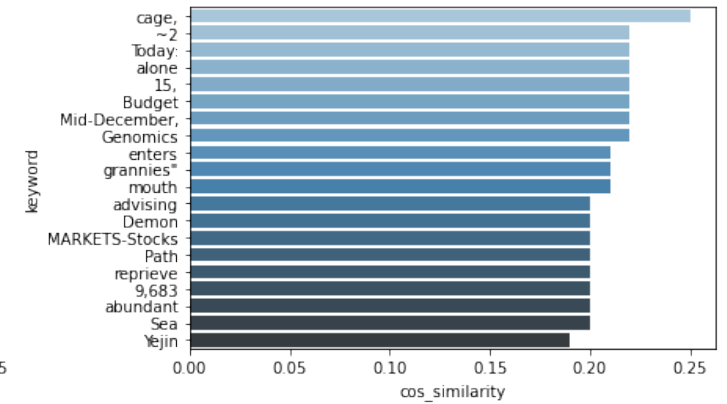
Lockdown



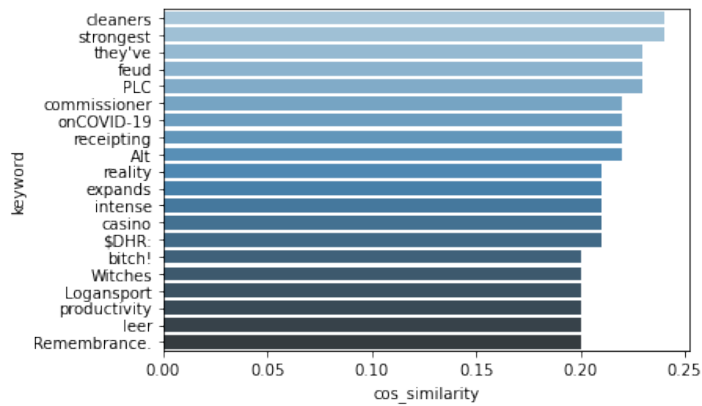
management



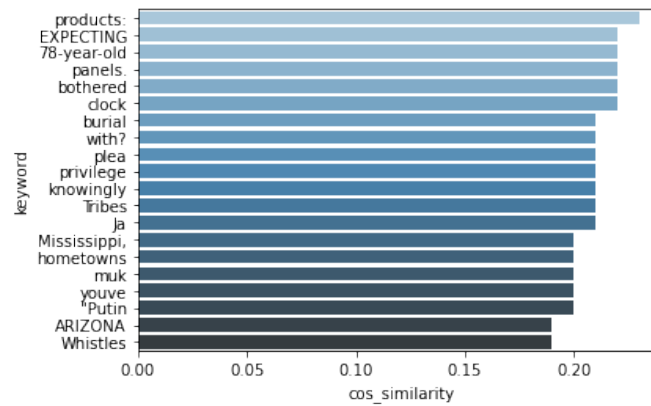
Office



welfare



Vaccination



self-employed

