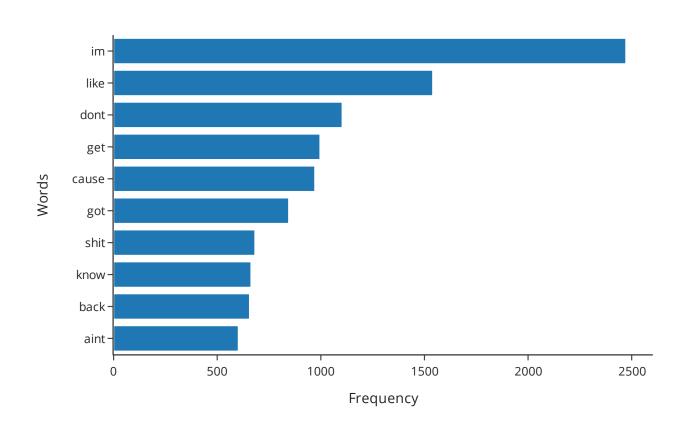


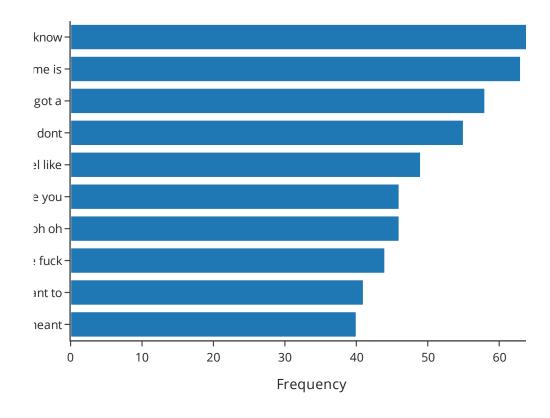
Natural language processing for plagiarism detection



Eminem is good in denial and love...

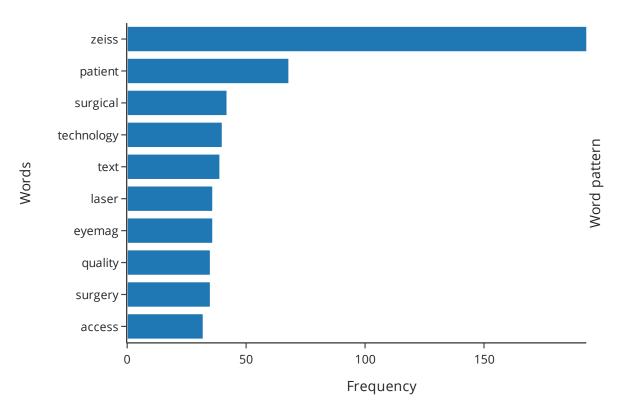


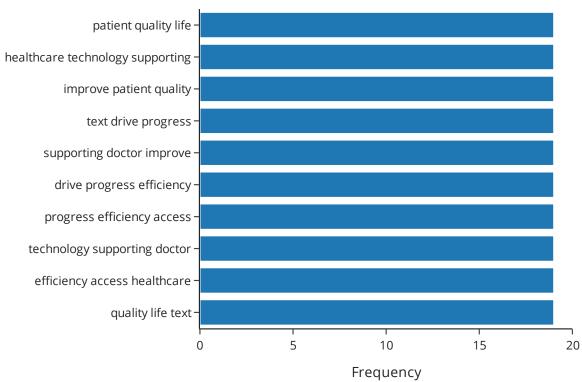




... and Zeiss medical products love to support doctors and patients

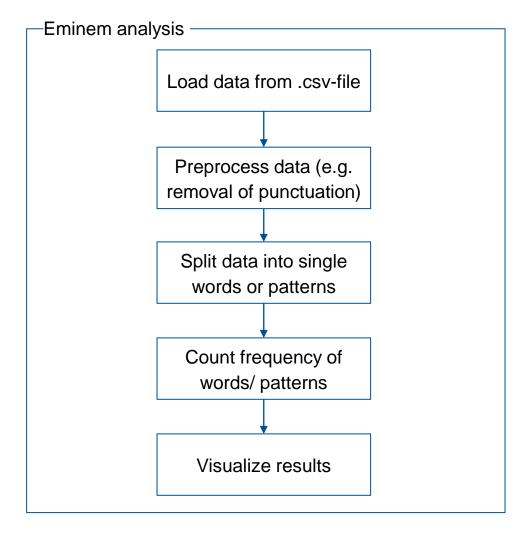


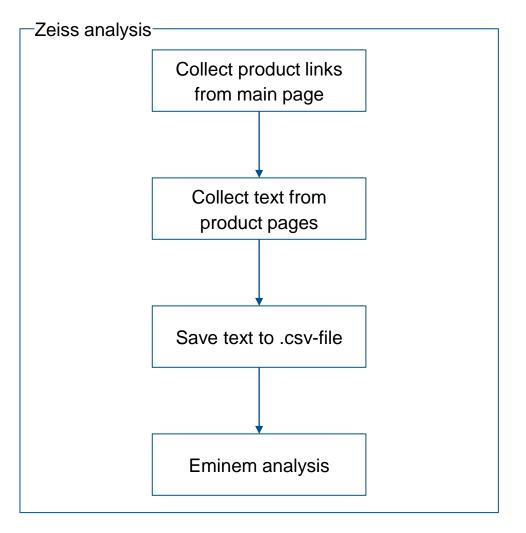




The analyses were based on counting the frequency of words and word patterns







Scaling and comparing the analyses requires the consideration of certain details



-Scalability: Eminem analysis -

Technical aspects:

- → can be scaled using an Apache Spark cluster
- + Reuse of some of the notebook code
- → might involve casting strings into unique numbers to save memory

Data aspects:

→ Preprocessing language dependent

-Scalability: Zeiss analysis

Technical aspects:

→ Web crawling activities can be scaled by multiprocessing/ threading / async functions

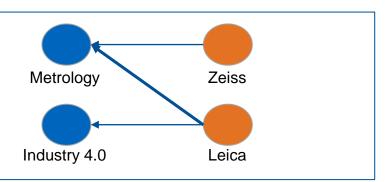
Data aspects:

→ Either inform crawling process with webpage structure or improve preprocessing pipeline

-Comparison of rappers/ pages

Analysis between different entities could be compared by building and visualizing graphs:

- Nodes: Entity (Rapper/ Company), Word / Pattern
- Edges: "is_using" with attribute frequency



Backup: Structure of Zeiss web pages



