

Overview

WHY is the analysis interesting?

HOW is it build?

WHAT are the results?

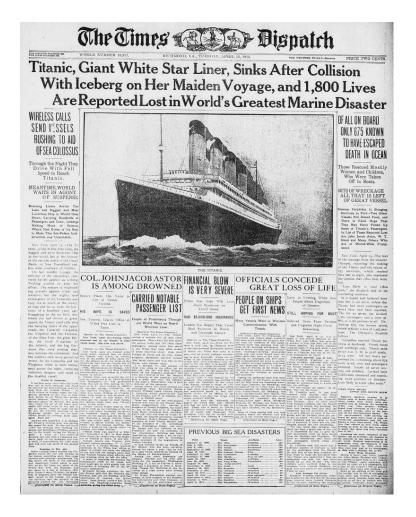
WHERE are the fallbackpoints?

WHAT can we take away?

How are certain topics depicted in the media?



Source: https://www.chroniclelive.co.uk/news/north-east-news/how-sunday-sun-first-newspaper-16561422



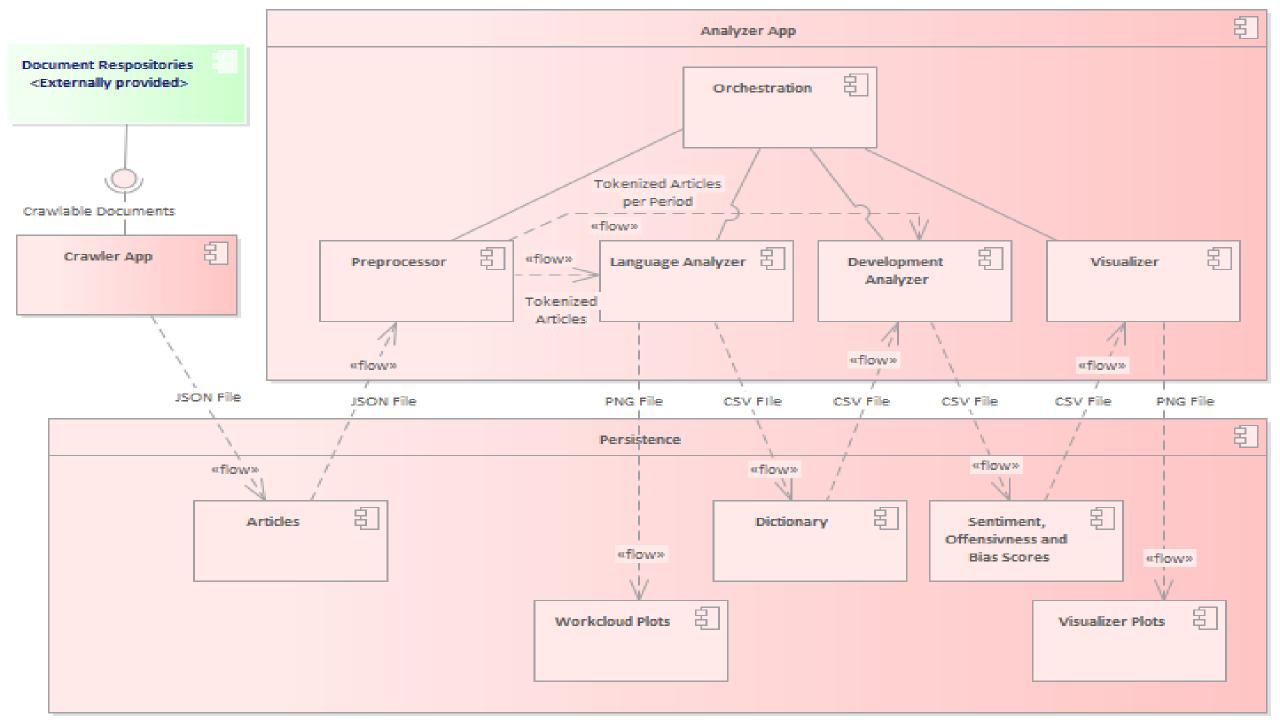
Source: https://www.ultimatetitanic.com/titanic-news/?category=Sinking

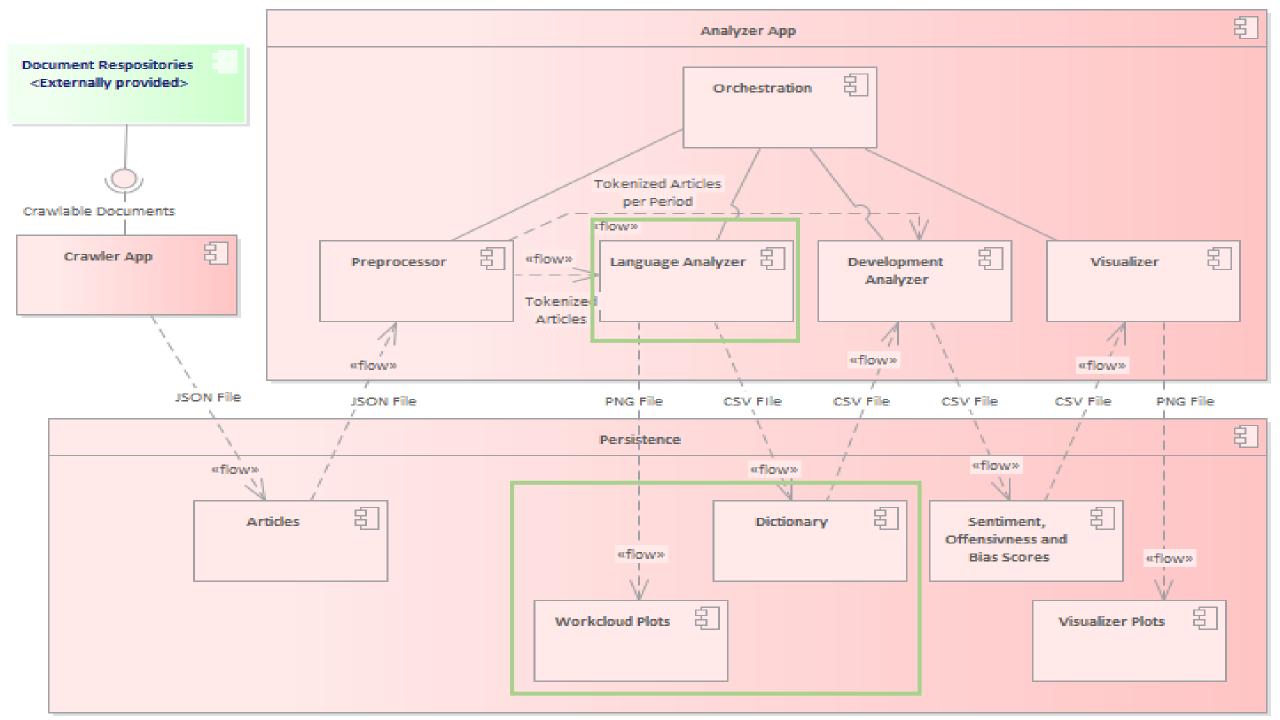
Supervised VS Semi-Supervised training

- Language is flexible
- Most tagged sets for short texts
 - → Narrow applicability

Idea:

- Lexicon based for biased or offensive language lexica
- Semi-Supervised for sentiment lexicon
 - → Test on articles regarding LGBT-community and Corona Crisis





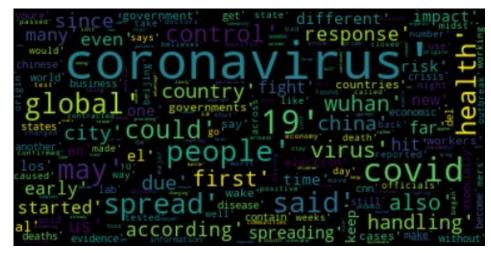
Crawling and Preprocessing

[covid, cov, corona, sars, outbreak, pandemic, virus]

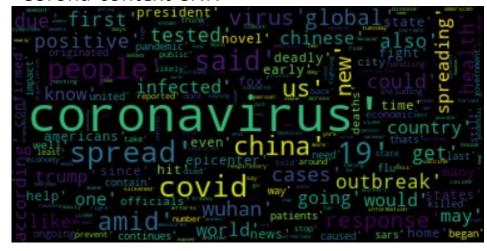
[..., the, war, of, words, between, the, trump, administration, and, china, over, the, origin, of, coronavirus, has, escalated, as, president, trump, is, going, out, of, his, way, to, call, it, the, chinese, virus, and, china, has, embarked, on, a, propaganda, campaign, to, shift, blame, for, the, pandemic, away, from, the, chinese, communist, party, handling, of, the, crisis, ...]

from https://www.foxnews.com/politics/gloves-off-over-coronavirus-trump-administration-china-escalate-clash-over-origins

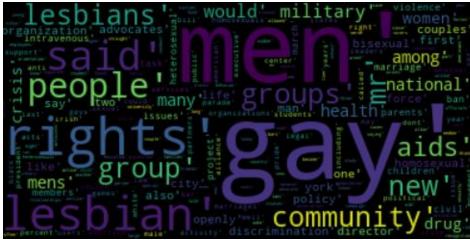
Wordclouds Corona Crisis and LGBT



Corona-context CNN



Corona-context Fox News



LGBT related articles 1986-1999



LGBT related articles 2000-2015

Sentimentlexicon extension

Conjunctions identified

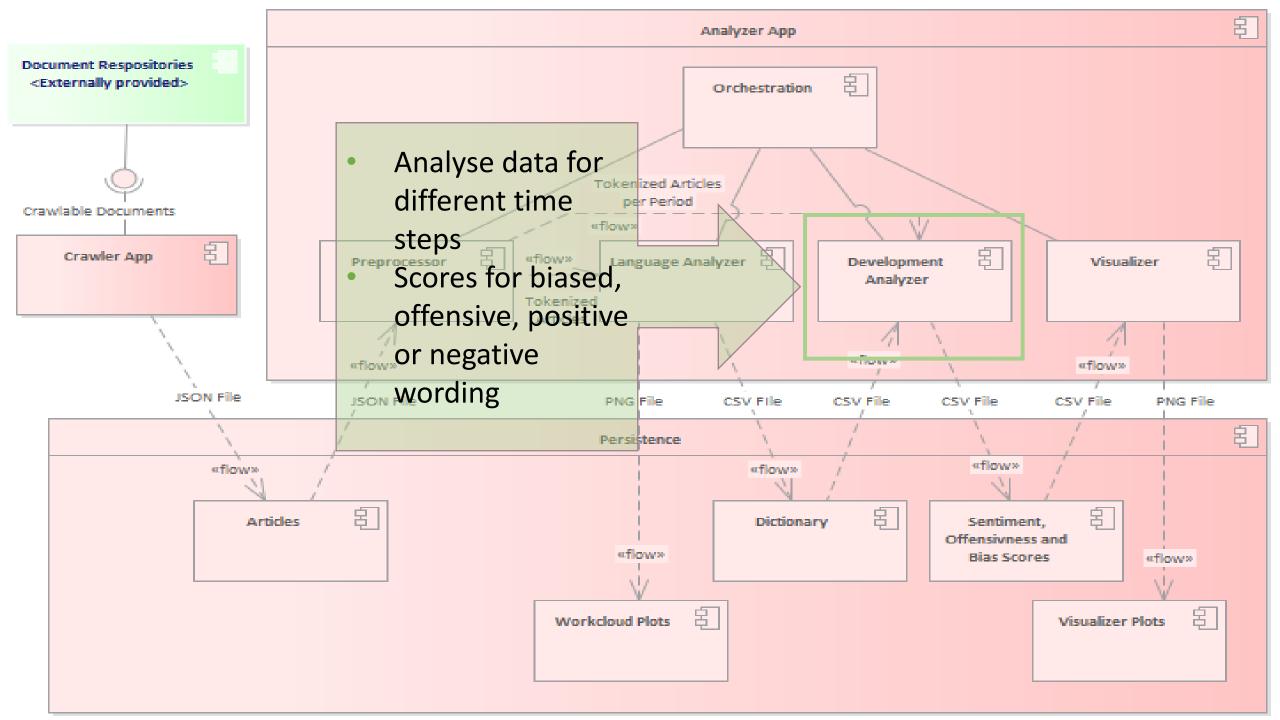
'but' → opposite polarity

'and' → same polarity

Weighted with Inverse Document Frequency (IDF)

Result:

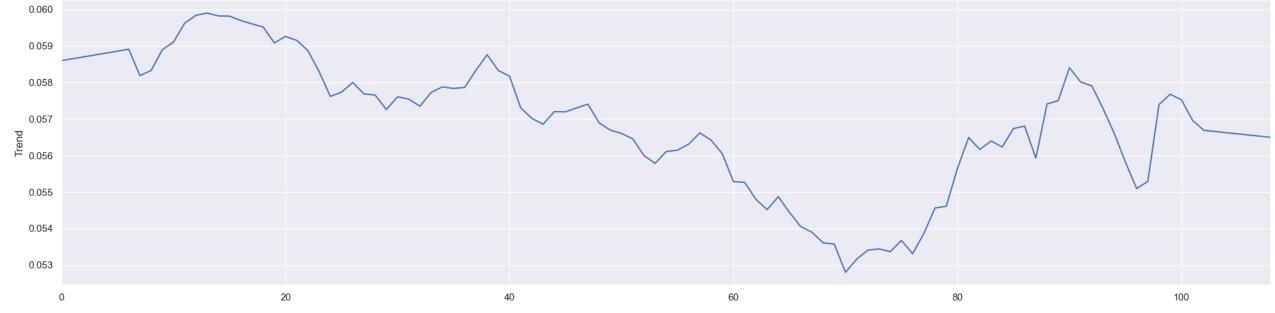
'economic', 'responsible', 'stable', 'angerthe, 'heat-sensitive'



Development over time



Trend?



Trend in usage of possibly offensive language

Take home

Lexicon based approaches demand less previous knowledge

 Frequency of word usage helps to determine overall topics of articles

 Frequency of word usage helps to give suggestions how controversial a topic is



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