exploration into emotion

Week 10

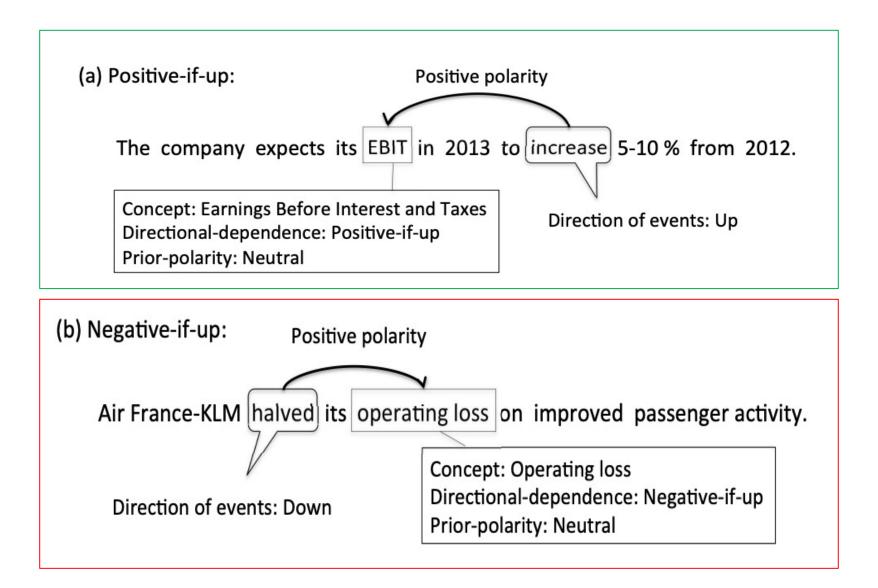
Sentiment analysis studies opinion text; there was almost no research into this topic from either the linguistics community or the NLP community before the year 2000

"Just booked two nights at this hotel"



### Sentiment

is defined as an attitude, thought, or judgment prompted by feeling, whereas opinion is defined as a view, judgment, or appraisal formed in the mind about a particular matter.

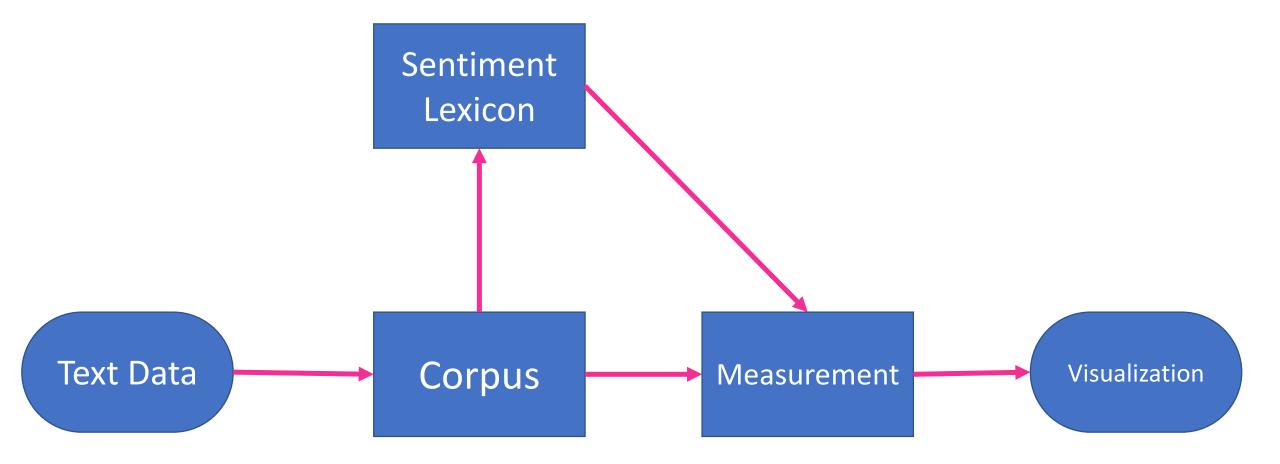


## Process of Sentiment Analysis

### **Methodology of Sentiment Analysis**

- Determine the issue to be analysed
- Establish the goals to be revealed by Sentiment Analysis
- Design the intended research procedure
- Do a pilot study
- Construct an open-ended question
- Obtain responses from sample respondents
- Analyse the responses using methodologies and software for Data mining
- Interpret results
- Condense the sentiment

#### **Basic Workflow**



### The Problem of Sentiment Analysis

#### It is subjective.

This subjectivity could create some issues; different people may have different experiences, and thus they could give different opinions.

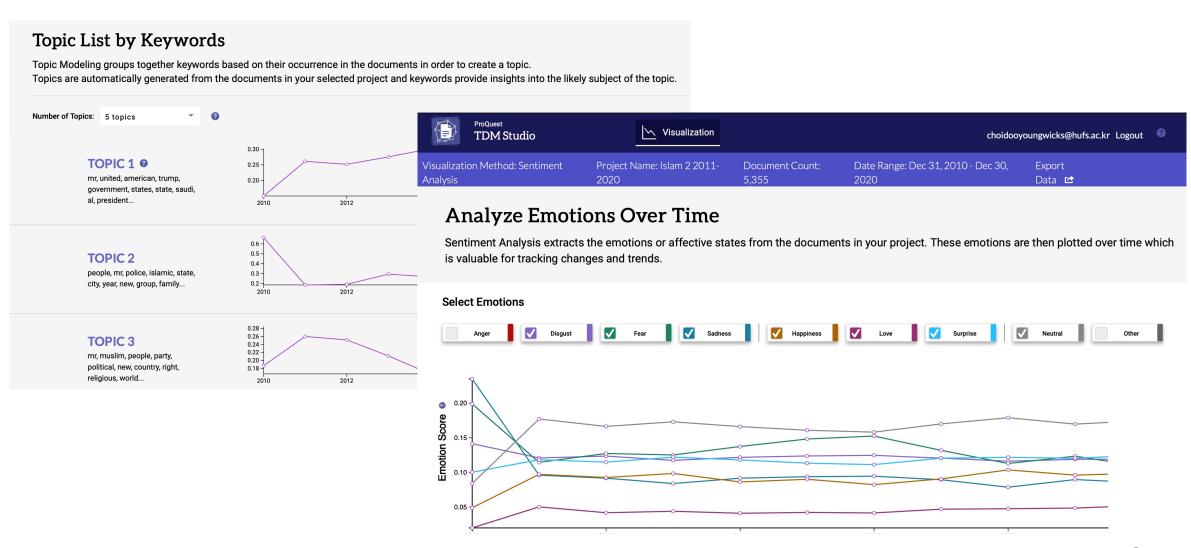
#### Different domain creates different subjective opinion.

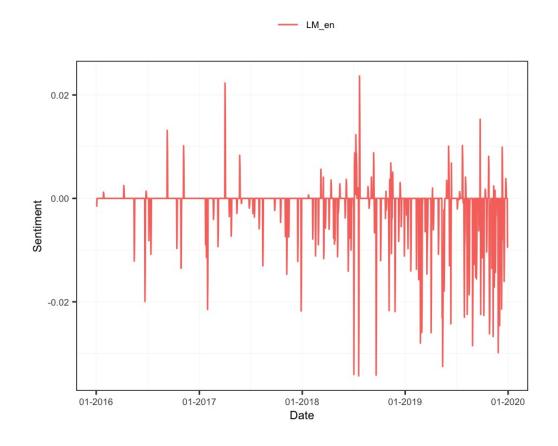
Each field has different jargon.

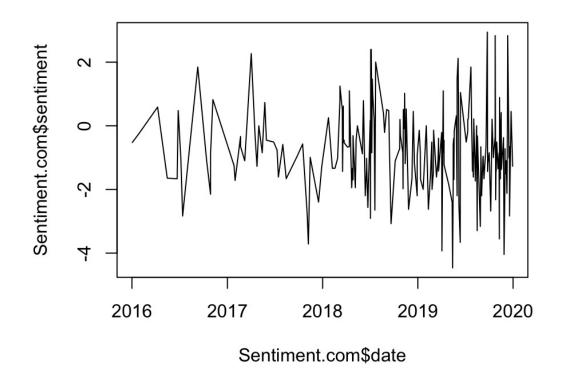
Political Sentiment Dictionary: Lexicoder Sentiment Dictionary (LSD) Dictionary Economic and Financial Sentiment Dictionary: Loughran-McDonald Master Dictionary

#### **TDM Studio**

#### https://tdmstudio.proquest.com/home

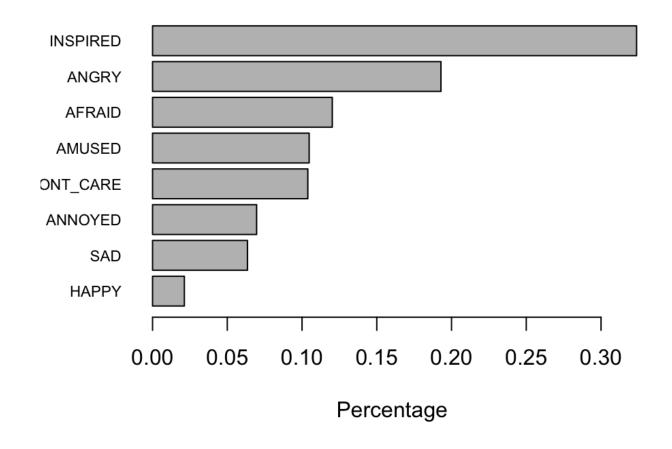






# Emotional Analysis

#### **Emotions in Sample text**



#### **Next Week**

# Please bring your laptop.

Week 11: Topic model

Topics Concerning Structure

- Latent Dirichlet Allocation (LDA)
- The Correlated Topic Model
- Topics Concerning Structure