



MAJOR NEWS EVENTS

November 2011 – March 2016

* <http://newsstream.ijs.si/occurrence/major-news-events-map>

BREAKING NEWS CONNECTING THE WORLD!



News in numbers:

- over 1.7 Million articles
- connecting 217 countries
- 20,000 significant events
- with 3 types of sentiment
- in the last 53 months

Collected by:

<http://newsstream.ijs.si>

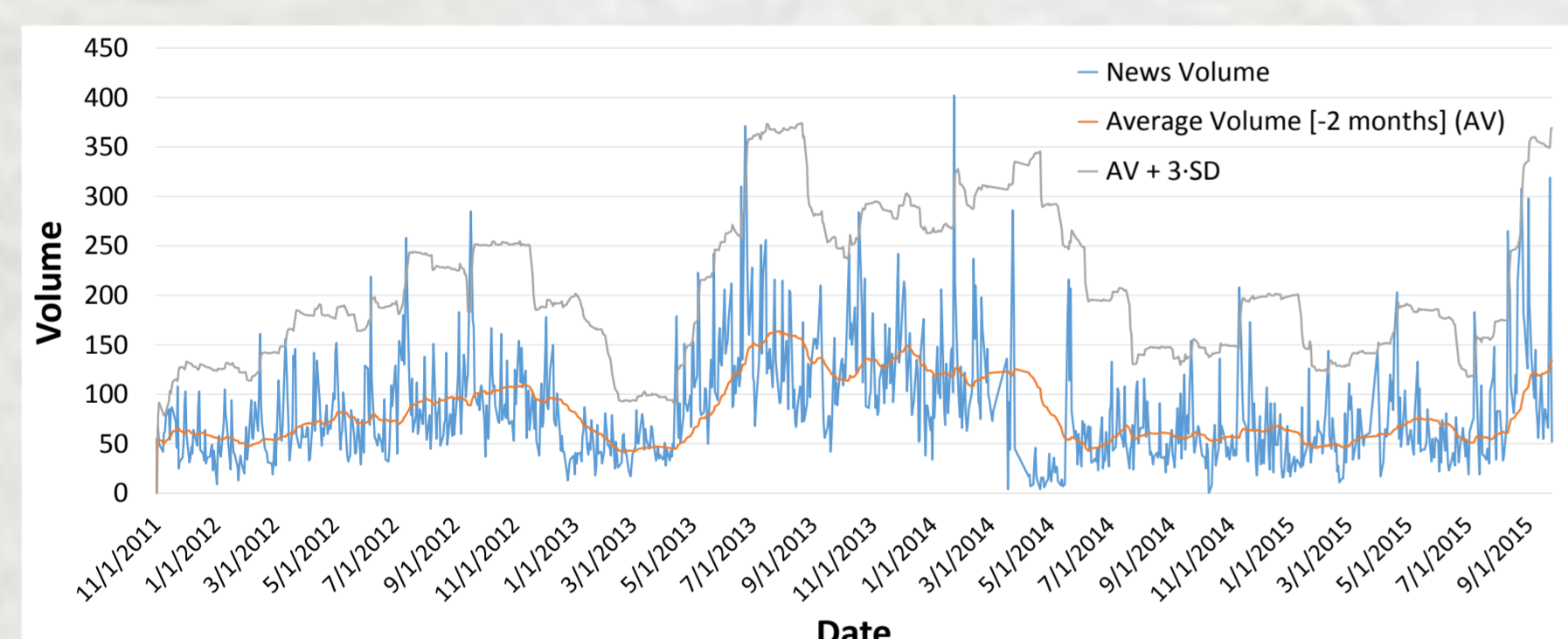
from:

- 180 English news sources
- more than 4 years of data
- over 38 Million news

EVENT DETECTION

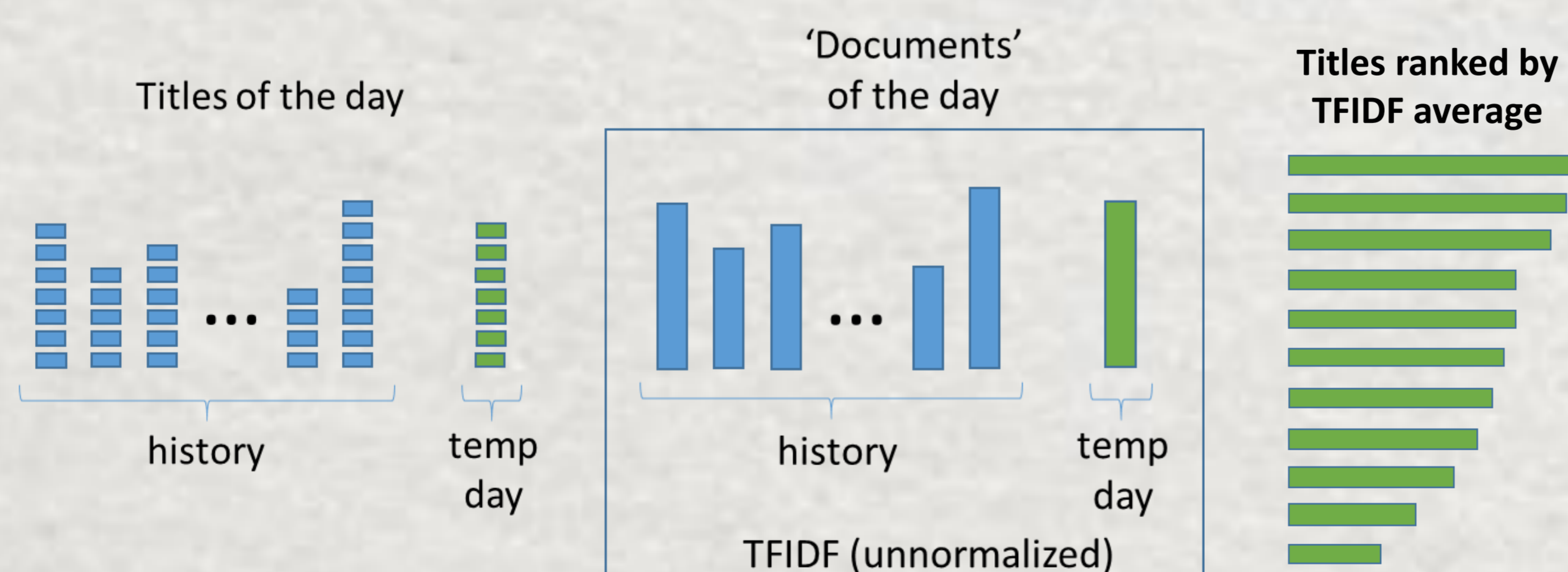
For every of the possible 23,436 country pairs we monitor the volume of news articles containing them. If the current day volume exceeds the average volume observed in the previous two months by more than three standard deviations, this day is considered a significant event day.

Timeline of news relating China and the United States, revealing peak news days is exclusively shown below.



CONTENT IDENTIFICATION

News of a particular day is contrasted to articles published in the previous two months to obtain distinguishing terms that characterize the most relevant news of that day.



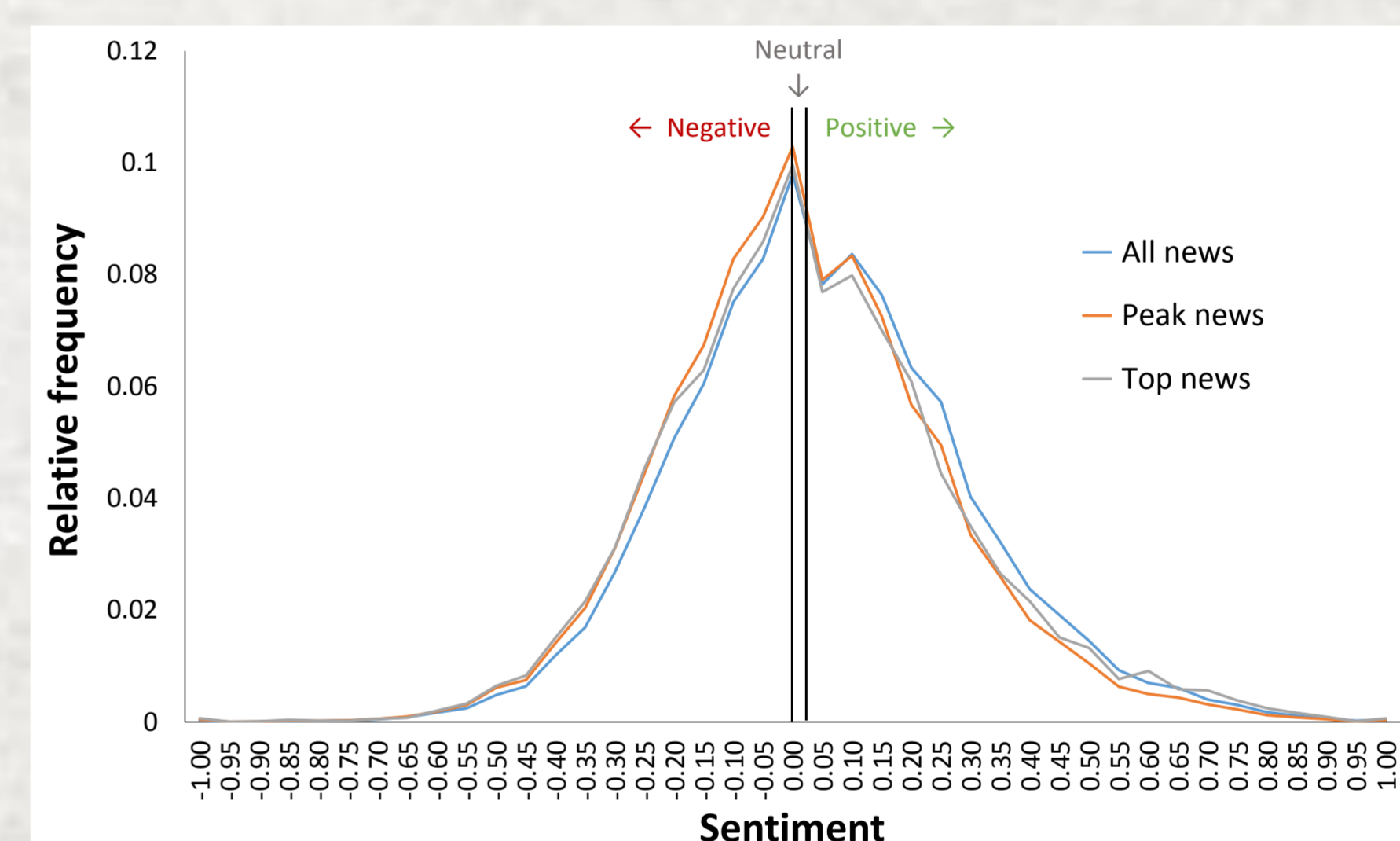
DISTINCTIVE NEWS EVENTS

What Matters ?

QUANTITY! CONTENT! and SENTIMENT!

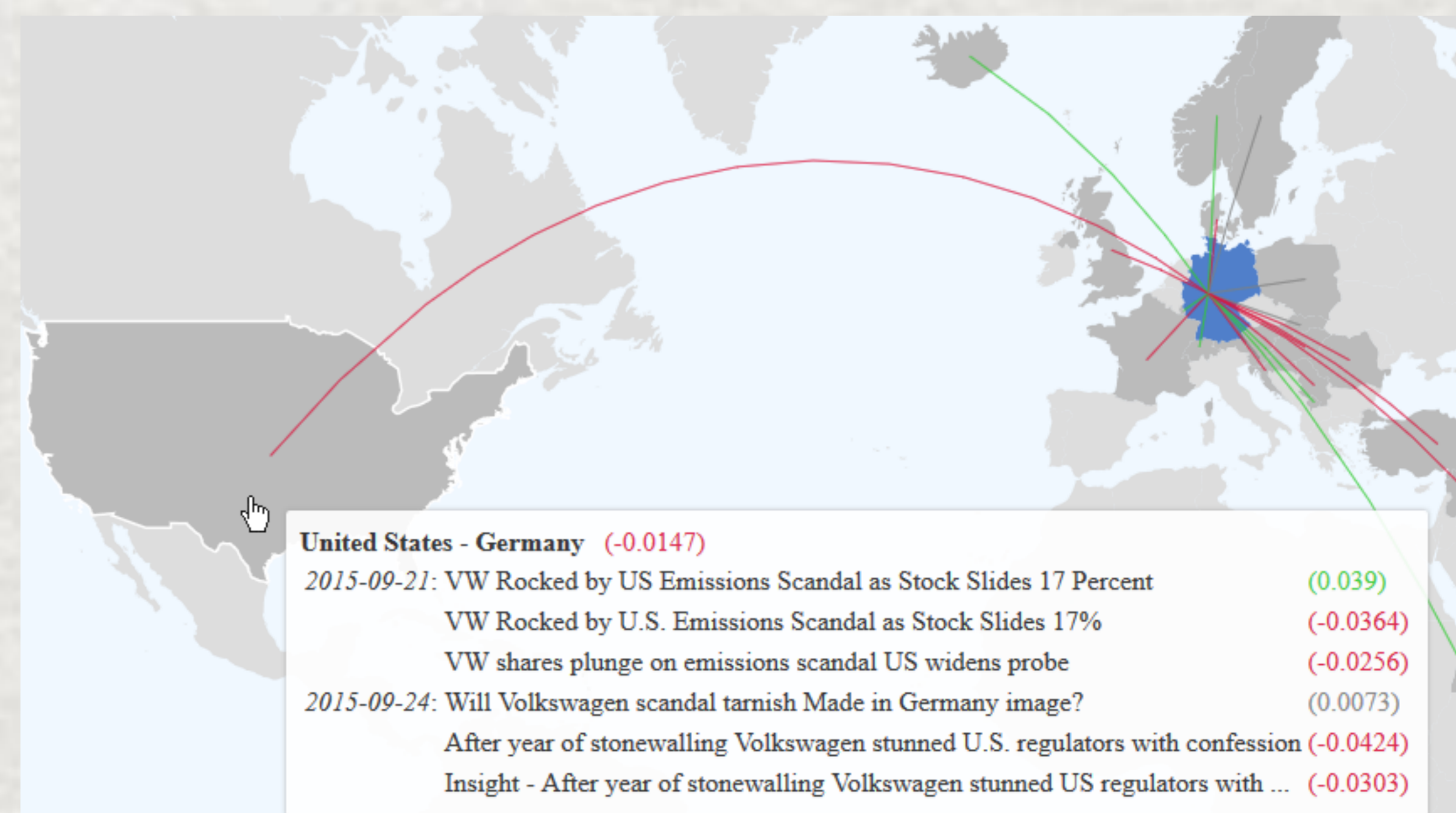
SENTIMENT ANALYSIS

- Lexicon-based sentiment analysis
- Sentiment polarity from negative and positive words
- Overall sentiment polarity with slight positive bias
- Peak day news more negative
- Top news with relatively more extreme sentiment

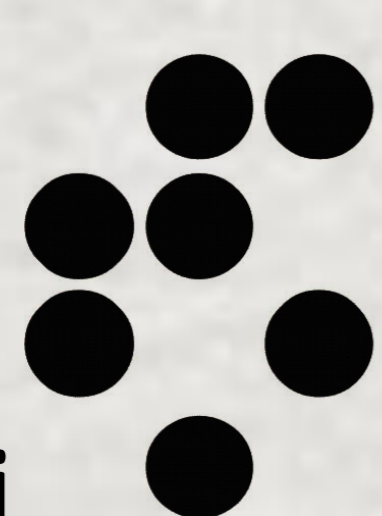


VISUALIZING TOP NEWS *

- Temporal multi-layer news network
- Embedded on the world map
- Country co-occurrence in news
- Most relevant top news content
- Associated sentiment polarity



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Read more about it in:

Complex Networks VII: 7th Workshop
on Complex Networks CompleNet
2016, SCI 644, 29-41, Springer, 2016