

Detection and visualization of emotion discrepancy in response to events in social media

Context:

Nowadays, with the emergence of social media, the web has become the main sphere where millions of people express their emotions, share their opinions and discuss about breaking news, politics and sports, etc. All these opinions, often in the form of microblogs (tweets) or comments contribute to the dissemination of the psychological reaction of a population to a given event.

The aim of this internship is to detect and visualize the emotion discrepancy of social media users in response to real world events.

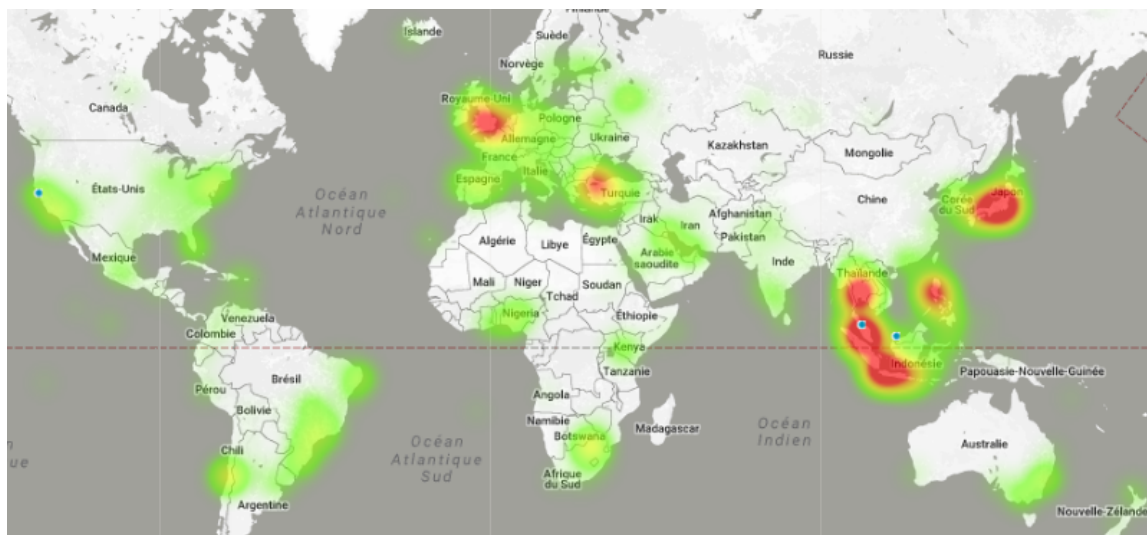


Figure 1: Our existing prototype: tweets related to Donald Trump and Hillary Clinton in real time (Friday, November 4 2016, 9am.)

Research questions:

- What are the characteristics of the reactions of social media users in response to breaking news?
- Is there any (geographical) discrepancy in the emotions expressed?
- How to visualize the reactions and the discrepancy of the users?

Methodology

- Follow a spreading trending real world events and explore the characteristics of users reactions to these topics
- Apply sentiment analysis methods to categorize the psychological reactions to the tweets
- Examine the discrepancy in the expressed emotions
- Apply visualization methods to analyze the discrepancy

Required skills:

Java (R or Python), D3.js (or any visualization method).

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