

LaSNe - Visualizing Networks in Twitter

Project M7

Alexandre Sablayrolles Christina Bogdan Varun DN

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Outline

1 Motivation

2 Data

3 Idea

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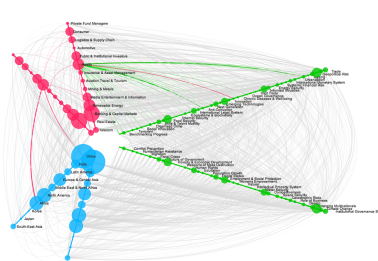
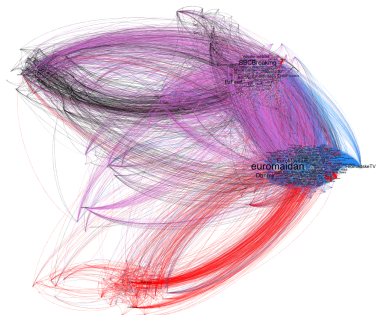
Project Goal: Develop a tool to visualize Twitter RT Networks

- Quickly visualize large networks without losing important information
- Represent connections in network in with quantitative visuals

Motivation

Building on work done by SMaPP Lab tracking Ukraine Crisis with daily visualizations of RT networks

- Used Gephi - slow rendering
- Missed opportunities to visualize important qualities of network



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- NYU SMaPP Lab has twitter network data related to many world events;
 - ArabEvents, Brexit 2015, CubaGeo, DNC2016, EgyptGeo
- We will use the data on **Ukraine Crisis** in late 2013 for experimentation
- Preprocessed data available as a GML file
 - Data collected over 45 days
 - Nodes and edges have a few attributes
 - Data encoded in XML format

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Hierarchical, real-time rendering

Hierarchical, real-time rendering

- Generate the overview graph instantly
- Political researchers can explore all the graph
- Fast iterations between visualisations and new ideas

Techniques

- Community detection
- Graph aggregation
- Backbone decomposition

Roadmap

- Reproduce Gephi efficiently [1 month]
- Exploratory phase (with SMaPP): come up with better visualisations