Quantum Criticism
Exploring Sentiment of Named Entities in News Articles

A. Badgujar, A. Wang, K. Yu, P. Intrevado, D.G. Brizan

Data / Pipeline

SLATE
BBC NEWS
The New York Times

Analysis

Stanford Named Entity Recognizer

Custom Entity Resolution Algorithm

Although the agreement reached between Donald Trump and Jean-Claude Juncker explicitly did not include agriculture, the statements after their meeting highlight how the deal on tariffs may have been a face-saving one by both the United States and the European Union. Juncker is not in charge of EU trade policy and he could not agree to possibly broken trade talks to include agriculture because the EU member states had not given him a mandate to do so.

Validation of Named Entity Recognition Tools

The New York Times

EC2

Future Work

Refine Entity Resolution algorithm to improve fidelity

Improve NER to account for Precision and Recall discrepancy between US and international news outlets

Parse and standardize local news reports from local news outlets, skewing perceived sentiment on locations, e.g., why New York Times reports so positively on New York City

Refine association of sentiment and entities from the article level to the sentence level

Collect news from additional news organizations

Identify bias in news organizations: what stories are being over-/under-reported?

Develop a more robust and responsive data pipeline for more responsive web use

1.5 million tagged articles

m5.xlarge [32 instances]

E.g., U.N. == United Nations

additional thanks to Ted Gioia

{abadgujar, awang27, kyu18, pintrevado, dgbrizan}@usfca.edu