

Center *for* Research Libraries GLOBAL RESOURCES NETWORK

Conversation 2: Digital News and its Scholarly Uses

Mary Feeney, Moderator

Librarian for the Social Sciences, Research & Learning Department University of Arizona Libraries

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Center for Research Libraries GLOBAL RESOURCES NETWORK

Digital News and its Scholarly Uses

Mary Feeney Social Sciences Librarian The University of Arizona Libraries

Scholars Using News Content

- Many different disciplines
 - History
 - Journalism
 - Communication
 - Political Science
 - Sociology
 - Linguistics
 - Education
 - Literature
 - Music
 - and so on…

- Many different uses
- Entire news source or specific pieces:
 - Ads
 - Editorials
 - Obituaries
 - Political cartoons
 - Literary works
 - Photographs
 - Data
- Broadcast transcripts
- News video

Scholars Accessing News Content

- Formats/types
- Print
- Microforms
- Digitized archival collections open access and commercial databases
- Commercial news aggregator databases
- News websites
- News apps

- Methods
- Browse
- Search
- Download
- Extract
- Text analysis/text mining
- Content analysis
- Network analysis
- and much, much more!



Center for Research Libraries GLOBAL RESOURCES NETWORK

Conversation 2: Digital News and its Scholarly Uses

James Danowski

Communication Professor Emeritus University of Illinois at Chicago jdanowski@catsci.org

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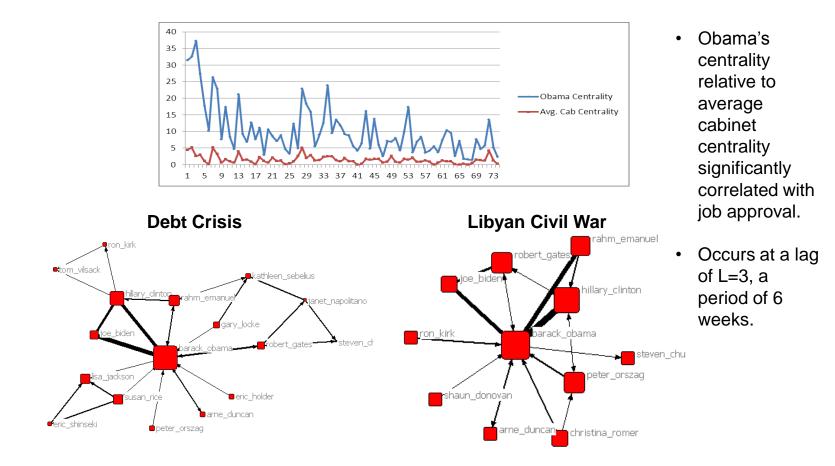
Extracting News Documents for Political Communication Research

- 1. News Extraction #1: Presidential network centrality and job approval
- 2. News Extraction #2: Arab Spring jihad semantic networks
- 3. News Extraction #3: Optimal messages for community resilience
- 4. Six challenges in extracting news documents

News Extraction #1

Centrality of President among cabinet members

News Extraction #1



Obama *centrality high* relative to the group

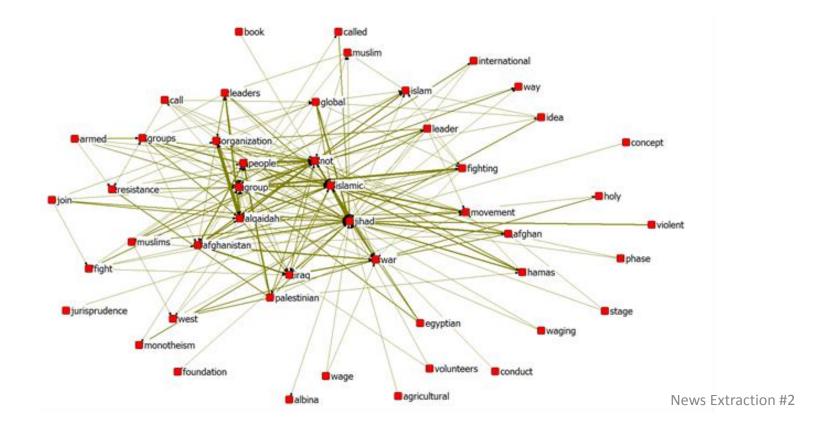
Obama *centrality low* relative to the group News Extraction #1

News Extraction #2

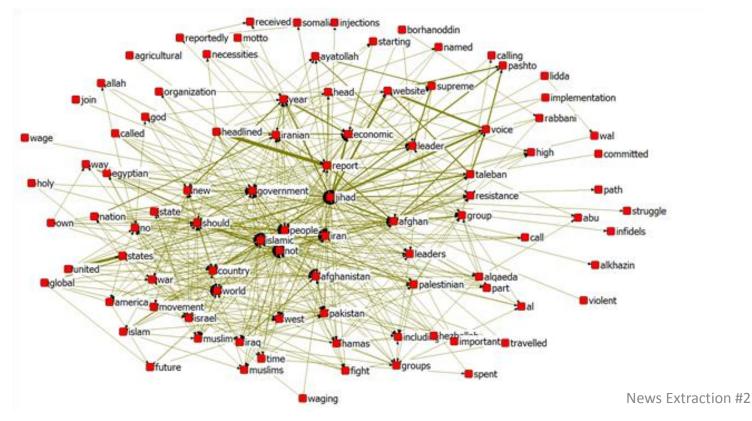
Changing semantic networks for *jihad* among majority-Muslin nations before and after the Early Arab Spring Uprisings

News Extraction #2

Jihad-Centric Network in Late 2010 Period



Jihad-Centric Network in Early 2011 Uprising Period



News Extraction #3

Ivory Coast Community Resilience Study after Muslim-Christian Civil War

News Extraction #3

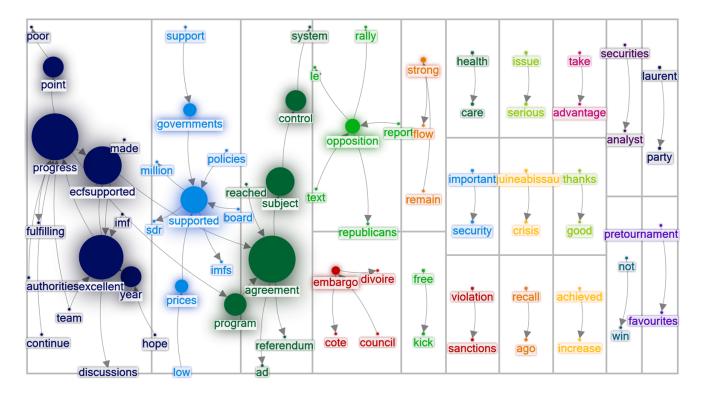
High Mobility Sentiment Predictors Lags 0-3

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Negative word pairs → increased mobility (to plan or to engage in violence?)
 News Extraction #3

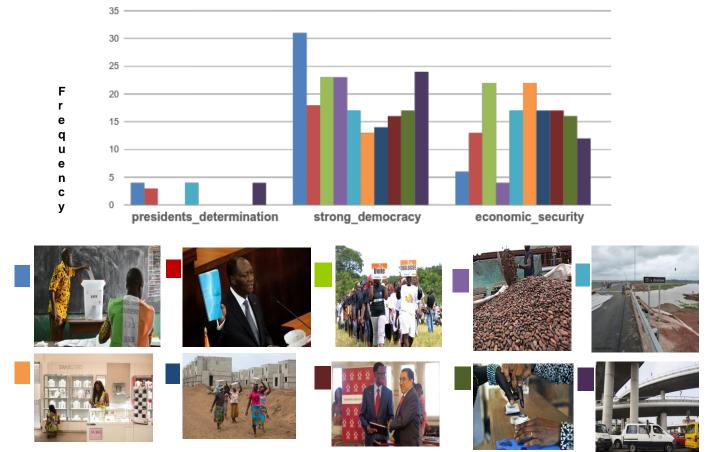
Low Mobility Sentiment Predictors Lags 0-3

(n=255 subprefectures)



• Positive media words \rightarrow low mobility (stay home and be happy). News Extraction #3

Optimal Word Pairs Activated by Photos



News Extraction #3

4. Six Challenges Extracting News Documents

Four Problems

Challenge #1: More than 1000 Hits Problem

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Challenge #2: Download Only 500 Documents per File

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Challenge #2 Example: Downloads Needed for the Presidential Cabinet Centrality Study

- Nixon
- Ford
- Carter
- Reagan
- GHW Bush
- Clinton
- GW Bush
- Obama ´

61



Manually grinding out 1,051 files, one rotation at a time.

Four Problems

144

180

229

Challenge 3: Stripping Meta Data



Challenge #4 Duplicate Documents

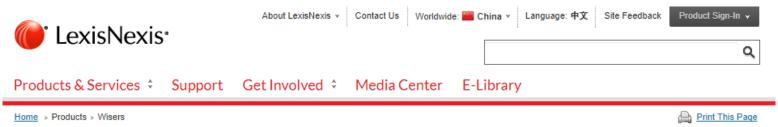


Challenge #5: No Photos



Challenge #6: No Chinese in Lexis-Nexis Academic

没有中文文件



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Get the information and insight you need to get ahead of the competition in Greater China, with 2,500 sources of news and business information from top-tier to local media







Lexis-Nexis User Needs Analyst





Center for Research Libraries GLOBAL RESOURCES NETWORK

Conversation 2: Digital News and its Scholarly Uses

Nicholas Adams

Data Science Fellow Berkeley Institute for Data Science

eDesiderata®



Center for Research Libraries GLOBAL RESOURCES NETWORK

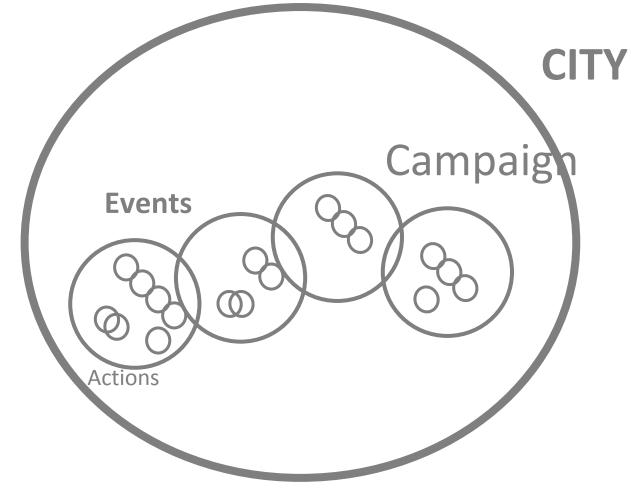
News as Data: Analyzing Events at Scale

Nicholas Adams, Ph.D. Berkeley Institute for Data Science Goodly Labs <u>nickbadams@berkeley.edu</u>

A Longstanding Challenge

How can we identify and extract reliable and richly linked data about events reported in newspapers? Even though:

- Events are described across non-contiguous text.
- Journalists do not write according to a temporal sequence.
- Multiple events are reported in a single document.
- A single sentence can report multiple events.
- Multiple events can occur on a single day.



The Reality

Just some of the people working on this...

Human

Soule and Davenport 2009; McAdam & Su 2002; McCarthy & McPhail 2006; Olzak & Soule 2009; Franzosi, De Fazio, & Vicari 2012; Tilly 2008; King, Bentele, & Soule 2007; Davenport 1997; Della Porta & Tarrow 2012

Machine

Hammand and Weidmann 2014; Gao et al. 2013; Keertipati 2014; Kwak & An 2014; Leetaru and Schrodt 2013; Schrodt and Yonamine

Note: Researchers tend to use one or the other.

Strengths (and weaknesses)

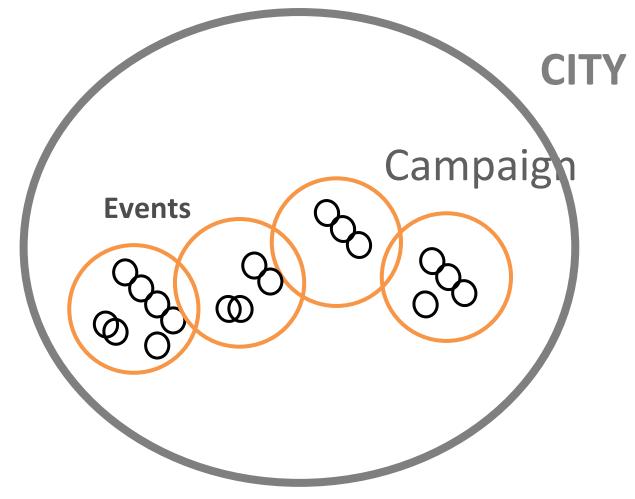
Human

- Valid
- Interpretable
- Easily communicated
- Trusted by Soc. Science & DH
- Example: Dynamics of Collective Action (DOCA)

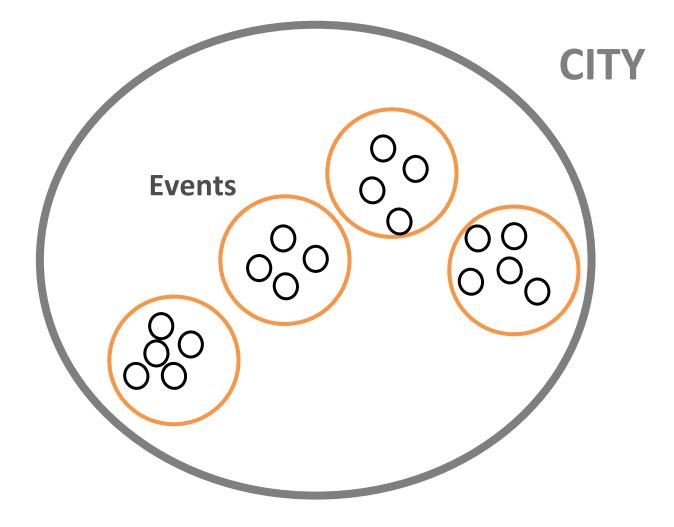
Machine

- Reliable, Replicable, Reproducible
- FAST!!
- Scalable to "Big Data"
- Trusted by CS & CL

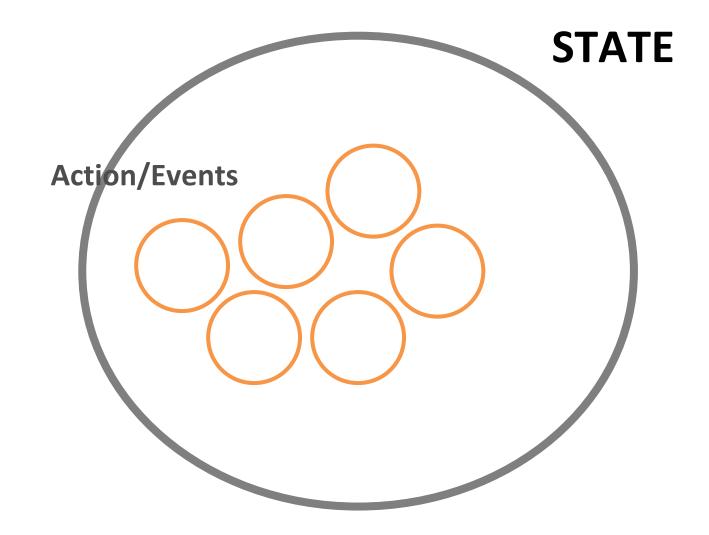
Ex: Global Data on Events, Language, and Tone (GDELT)



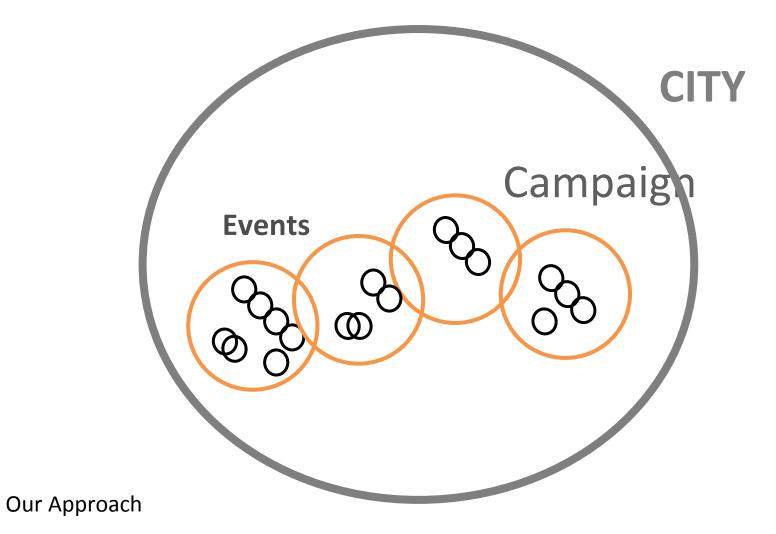
The Reality



DCA



GDELT



Refrain: This will be challenging

- Events are described across non-contiguous text.
- Journalists do not write according to a temporal sequence.
- Multiple events are reported in a single document.
- A single sentence can report multiple

One New Hybrid Approach: Performance Modeling

Identify events by hand, get machines to do the rest

+*+* 10-13-11 CRV, v31, NBA

Originally published Thursday, October 13, 2011 at 9:36 PM The Associated Press

Bigger Occupy Seattle protest set for Saturday

Occupy Seattle demonstrators took a break from downtown Seattle's Westlake Park on Thursday to make way for a jobs rally organized by Washington labor unions.

SEATTLE —

Occupy Seattle demonstrators took a break from downtown Seattle's Westlake Park on Thursday to make way for a jobs rally organized by Washington labor unions.

KING-TV (http://bit.ly/pCQUJ80) reports about 10 police officers told some 75 demonstrators they had to leave [some 75 demonstrators they had to leave]. After a brief confrontation, the Occupy Seattle protesters left.

By Thursday evening, about 30 of them were back in the park.

Roughly 25 protesters have moved to City Hall Plaza, where Mayor Mike McGinn has said they are welcome to camp [Roughly 25 protesters have moved to City Hall Plaza, where Mayor Mike McGinn has said they are welcome to camp]. At midday Thursday, dozens protested outside the downtown hotel where Republican presidential hopeful Mitt Romney had a private fundraiser. They carried signs including one that said, "Romney is the 1 percent" - a reference to what the demonstrators describe as the concentration of wealth among a small slice of the population.

Occupy Seattle plans a large demonstration Saturday.

Hand-Labeled Occupy Data

Hand-Labeled Occupy Data as JSON on GitHub

df-data

deciding force data

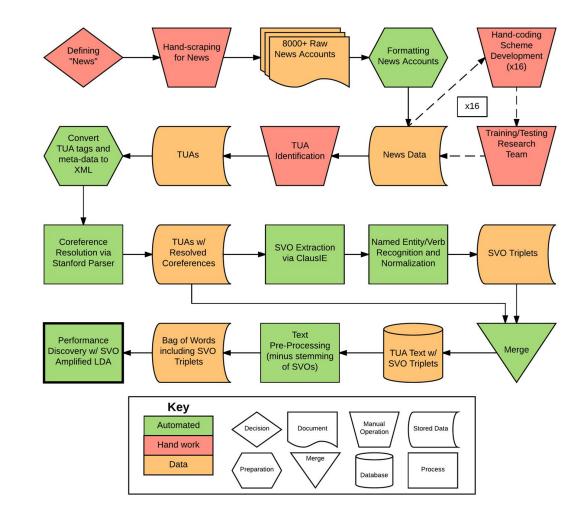
There are currently this many records:

gzcat articles.json.gz | jq -c '[.[]] | length' 5724

Example output:

gzcat articles.json.gz | jq '.[0] | [.metadata, .tuas.Protester]'

```
[
  {
    "annotators": [
     "SLG"
   1,
   "article_number": "0",
    "city": "Albany",
    "date_published": "2011-11-05",
    "periodical": "AlbanyDemocratHerald",
    "periodical_code": "01",
   "state": "NY",
    "version": "23"
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        "brandishing homemade signs and waving at passing cars, more than 60 people supporting the occupy
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       345,
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        "about five counter-demonstrators were also on hand with signs asking for"
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        "and occasionally debating with individuals from the larger group."
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We've learned from developing our Performance Modeling technique

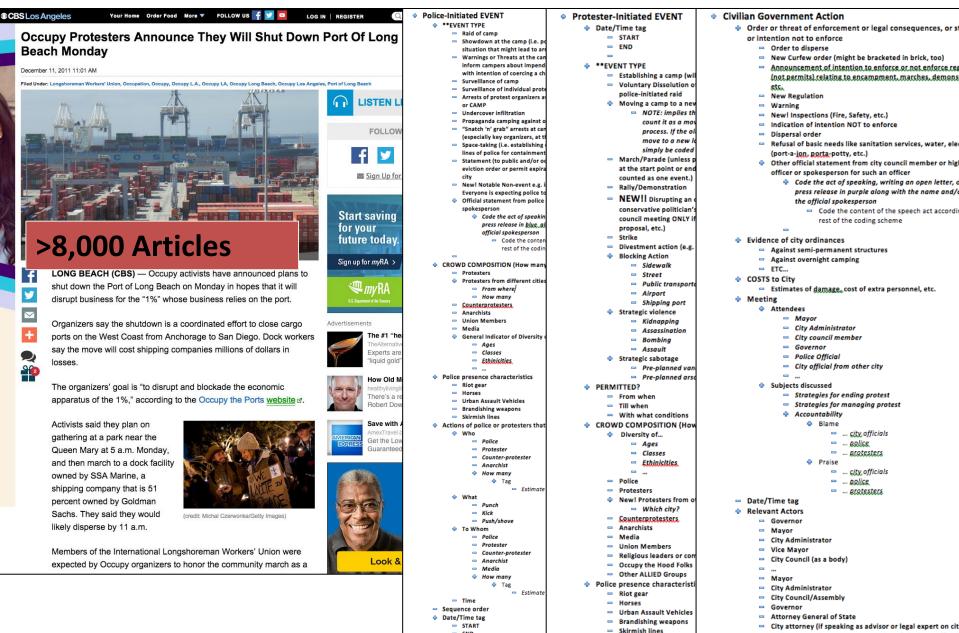
Findings

- American police are not independent of politics
 - more accommodating, fewer shows of force when elections are near
- American police are not merely reactive, but behave strategically, based upon their capacities
 - When understaffed, they move quickly to shut down campaigns – also avoid force-on-force mass arrests, preferring to arrest individuals or smaller groups, and threaten fewer deadlines
- Police culture and context affects their response to protest as well
 - Departments committed to Community Policing focused enforcement on individuals, far fewer Raids.
 Departments in cities with high violent crime rates

rather shrugged at Occupy

Another New Hybrid Approach: Classification by Crowds

Use TextThresher software to break human-led work out into an assembly line



- END

ordinances and not as representative of city in an official

+*+* 10-13-11 CRV, v31, NBA

Originally published Thursday, October 13, 2011 at 9:36 PM The Associated Press

Bigger Occupy Seattle protest set for Saturday

Occupy Seattle demonstrators took a break from downtown Seattle's Westlake Park on Thursday to make way for a jobs rally organized by Washington labor unions.

SEATTLE —

Occupy Seattle demonstrators took a break from downtown Seattle's Westlake Park on Thursday to make way for a jobs rally organized by Washington labor unions.

KING-TV (http://bit.ly/pCQUJ80) reports about 10 police officers told some 75 demonstrators they had to leave [some 75 demonstrators they had to leave]. After a brief confrontation, the Occupy Seattle protesters left.

By Thursday evening, about 30 of them were back in the park.

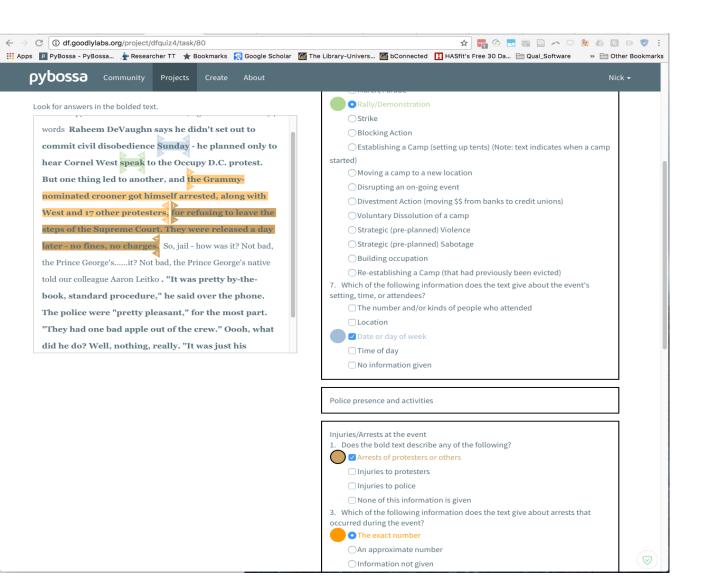
Roughly 25 protesters have moved to City Hall Plaza, where Mayor Mike McGinn has said they are welcome to camp [Roughly 25 protesters have moved to City Hall Plaza, where Mayor Mike McGinn has said they are welcome to camp]. At midday Thursday, dozens protested outside the downtown hotel where Republican presidential hopeful Mitt Romney had a private fundraiser. They carried signs including one that said, "Romney is the 1 percent" - a reference to what the demonstrators describe as the concentration of wealth among a small slice of the population.

Occupy Seattle plans a large demonstration Saturday.

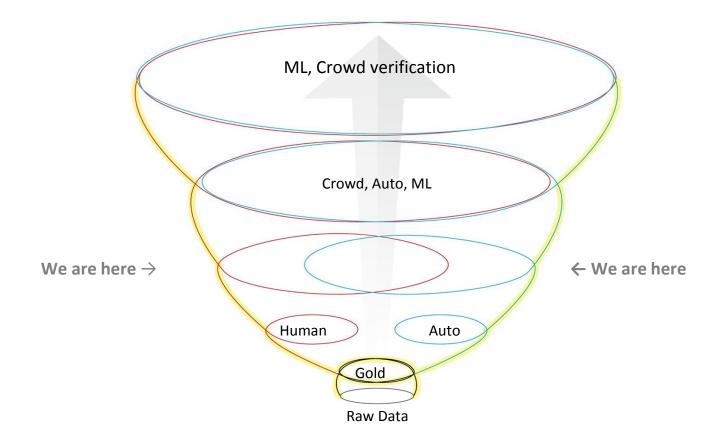
Hand-Labeled Occupy Data

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pybossa Community	Projects Create About	Nick -
САМР	22 of 392 DOCUMENTS	
GOVERNMENT	The Associated Press	
	October 22, 2011 Saturday 08:02 AM GMT	
PROTESTER	Oakland protesters defy city order to leave	
	BYLINE: By TERRY COLLINS, Associated Press	
POLICE	SECTION: DOMESTIC NEWS	
	LENGTH: 132 words	
	DATELINE: OAKLAND, Calif.	
	Hundreds of anti-Wall Street protesters defiantly remained at their campsite	
	outside Oakland's City Hall early Saturday, despite a city order to vacate.	
	As the 10 p.m. time of the city's ultimatum passed Friday night, Occupy Oakland	
	demonstrators showed no signs of departing as music blasted from the plaza More	
	protesters arrived with tents as midnight approached.	
	Earlier, city spokeswoman Karen Boyd said that Oakland gave official notice that	
	the protesters do not have permission to remain overnight and that their	
	encampment is breaking the law. She would not comment on what steps the city	
	would take toward enforcing of the law. There was no indication of significant	
	police presence early Saturday.	
	Boyd says that protesters can legally demonstrate at the plaza from 6 a.m. to 10	
	p.m.	
	LOAD-DATE: October 23, 2011	
	LANGUAGE: ENGLISH	
	PUBLICATION-TYPE: Newswire	
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Instructions: Highlight text that describes the time, location, and all the actions of a protester-initiated event occurring during the Occupy movement. Remember a protester-initiated event is one that protesters plan or lead, AND that is not in direct immediate response to an event initiated by the police/government. Many protester activities occur during events that police initiate, and those protester activities should be highlighted as a part of a POLICE-initiated event. If more than one protester-initiated event is described in the article, be sure indicate each by adjusting the number on the highlight flag for each event. Highlight text corresponding with high-level topic or unit of analysis.



Answer "reading comprehension" style questions... AND highlight the text that justifies your answer.



A Hybrid Approach to Scaling Up Social Data Analysis

Organizing Digital Textual Archives

for the coming wave of computational text analysis scholarship CapitolQuery project

CapitolQuery

- Combine separate files appearing across multiple pages of a digital archive website
- Find structure in the documents using computational text analysis techniques
- Organize everything into a query-able database that links to other relevant databases
- We're writing tutorials so you can learn to do all of this!



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Conversation 2: Digital News and its Scholarly Uses

Discussion and Questions

