

# Tweets and the News

**What are they tweeting about?  
How do they tweet differently?**

# News Agencies

- Sample size: 25,600 tweets
- Domestic



- International



# Methods

- Top words
- Collocations
- Searching for tweets by topic
  - *Example: Fox News and [obama, #obama, potus, @barackobama]*

unders gop led senate fails override obama #keystonexl veto lawmakers fight sup  
ve damage dems rip netanyahu warning obama iran nuke deal fear mongering #netan  
ngering #netanyahuspeech real reason obama white house doesn boost bibi widenin  
house doesn boost bibi widening rift obama propel netanyahu upcoming election s  
nyahu upcoming election stand israel obama iranians fact checker calls obama sa  
el obama iranians fact checker calls obama saying #keystonexl bypasses us clean  
lot love fo wake america beware team obama dangerous plan ban bullets pres tryi  
tay ruling obama immigration action #obama administration sent 800 000 custome  
iani wanted apologize comments pres #obama repeat said # 9p et talk u troops t  
id # 9p et talk u troops think pres #obama comments wh extremism summit though  
esn love america giuliani clarifies #obama patriotism comments obama offers lo  
spiracy theories radical ideas pres #obama address grievances terrorists explo  
including economic grievances pres #obama need find new ways amplify voices p  
court case #obamacare next opinion #obama amnesty plan dead absolutely dead #

# Lexical Richness: Domestic News

(# unique words) / ( total # of words)

- New York Times: **26.6%**
- FOX: **26.7%**
- Washington Post: **27%**
- Christian Science Monitor: **20%**

# Hot Topics: Domestic News

				
Immigration	16	54	14	15
American Sniper	8	<b>54</b>	23	13
Ferguson	34	13	<b>41</b>	9
KeystoneXL	8	<b>25</b>	11	7
Gay marriage	10	15	<b>29</b>	25

# Hot Topics: Domestic News

	The New York Times NYTIMES.COM	FOX NEWS Channel	The Washington Post	The Christian Science Monitor
Obama	101	<b>299</b>	150	137
Hillary Clinton	<b>40</b>	41	59	22
Jeb Bush	<b>20</b>	10	38	26

# Words about Hillary Clinton



- Private email
- Presidential contenders
- Glass ceiling



- Private email
- Violated ethics
- Monica reference

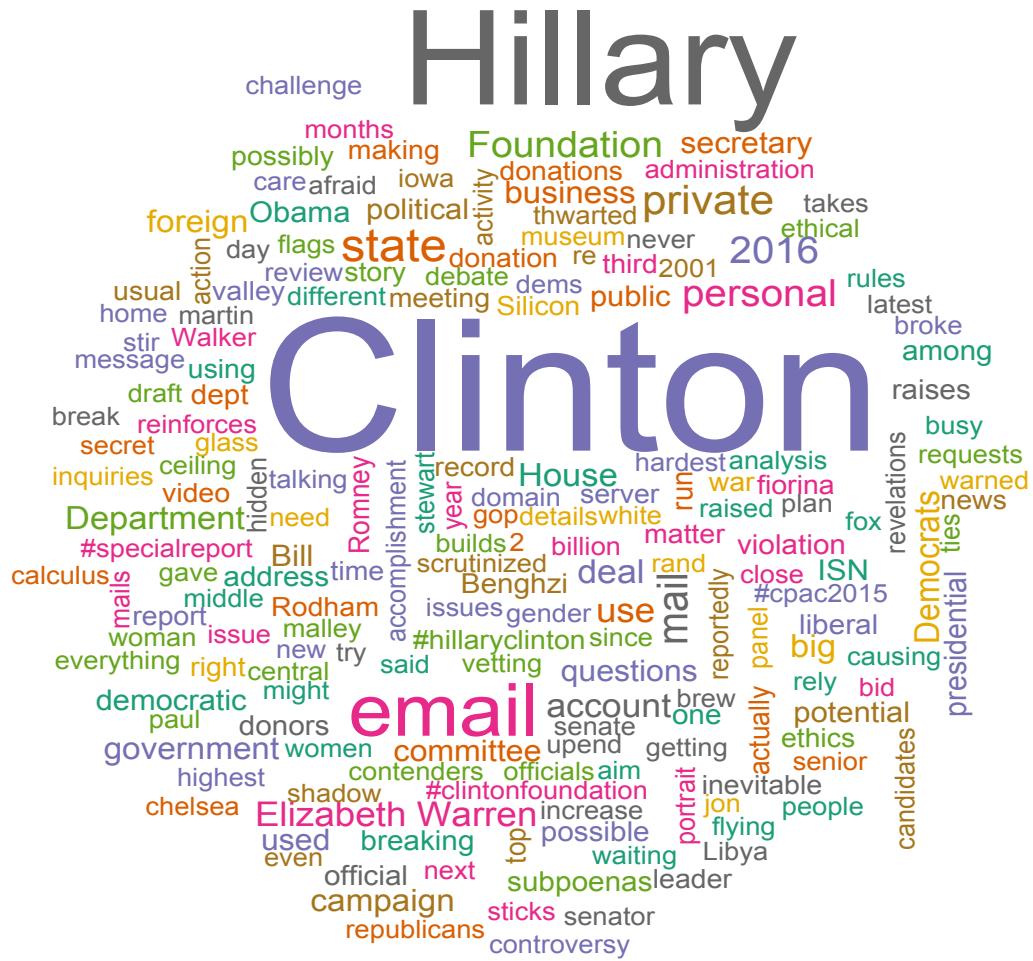
# Words about Jeb Bush



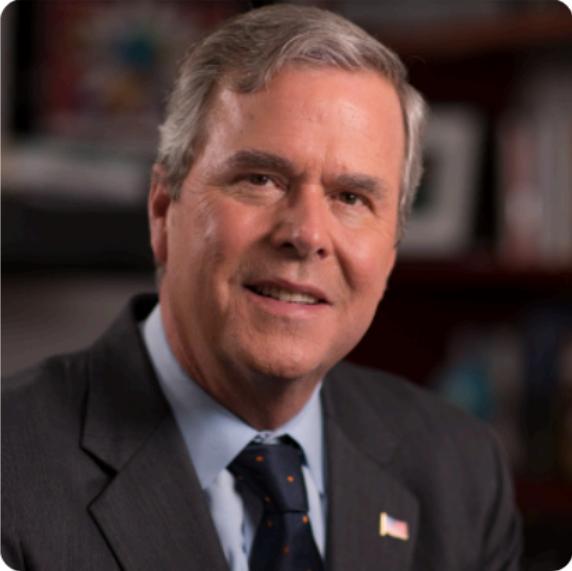
- Dynasty son
- Campaign donors
- Ruthless
- Jeb Bush



# Hillary Clinton



- Political Calculus: voters **unlikely to care** much about the Hillary Clinton email furor [New York Times]
  - Hillary Clinton, private email and more **questions about character** via @danaperino [FOX News]



**Jeb Bush**

@JebBush

# Jeb

access book savvy  
rivals video resigns  
state key fundraiser eyes christie quayle  
cpac legacy appearance #cpac2015 dynasty  
tastes House tweets hurt marco  
florida look white seems father documents run  
conservatives man pac chief survive campaign technology  
gays officer releases backing expensive  
brother dad win many wife rubio policy team  
tech set unique home ice gop women  
meet faces used pressure 2016 wife  
backfire show economic affairs mail  
lay presidency Barbara host staffer  
comments emails governor unelectable 2015 family  
chapter republicans president group ruthless donors  
dump experts speech VP education personal  
conservative new  
relentlessness one growing

# Bush

- As **dynasty son**, Jeb Bush used his connections freely [New York Times]
- Jeb Bush **stands firm** on controversial immigration, education policies at CPAC [FOX News]

# International News Agencies

- How do they tweet differently?
  - Location



Telegraph



# Methodology

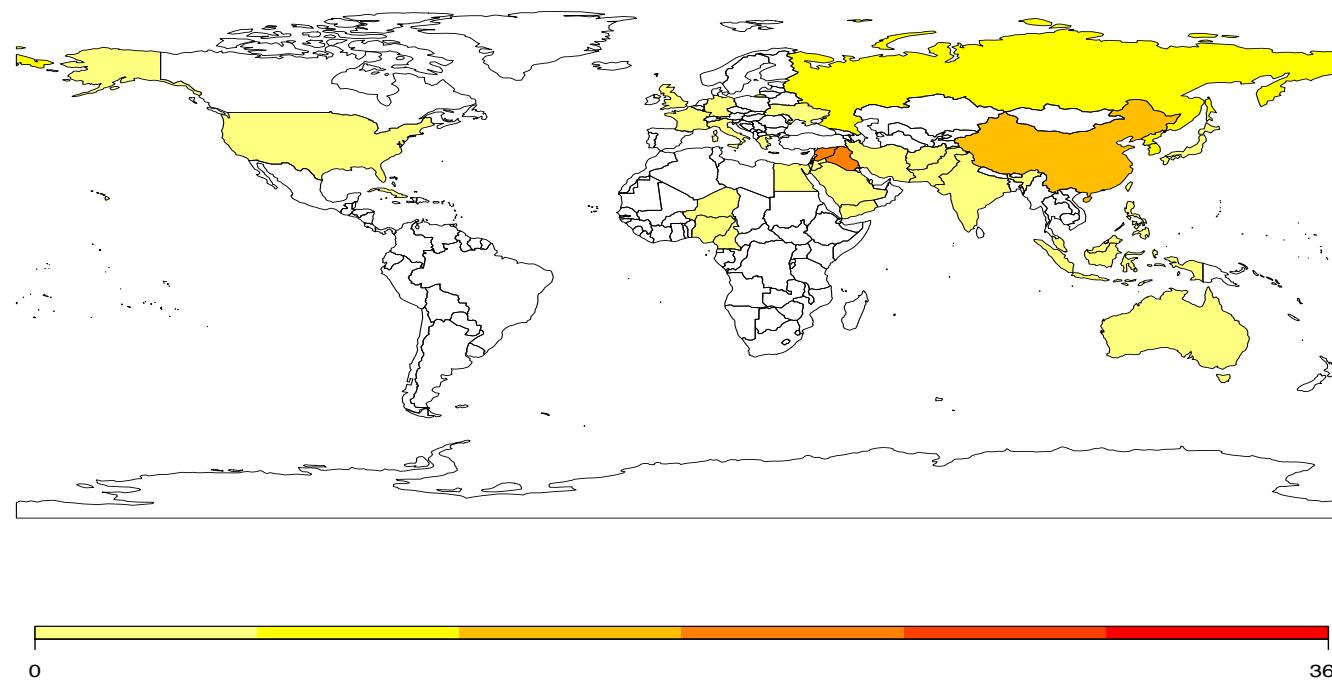
- Calculate word frequencies for each agency
- Extract word counts representing each country
- E.g.

American, US, States, USA

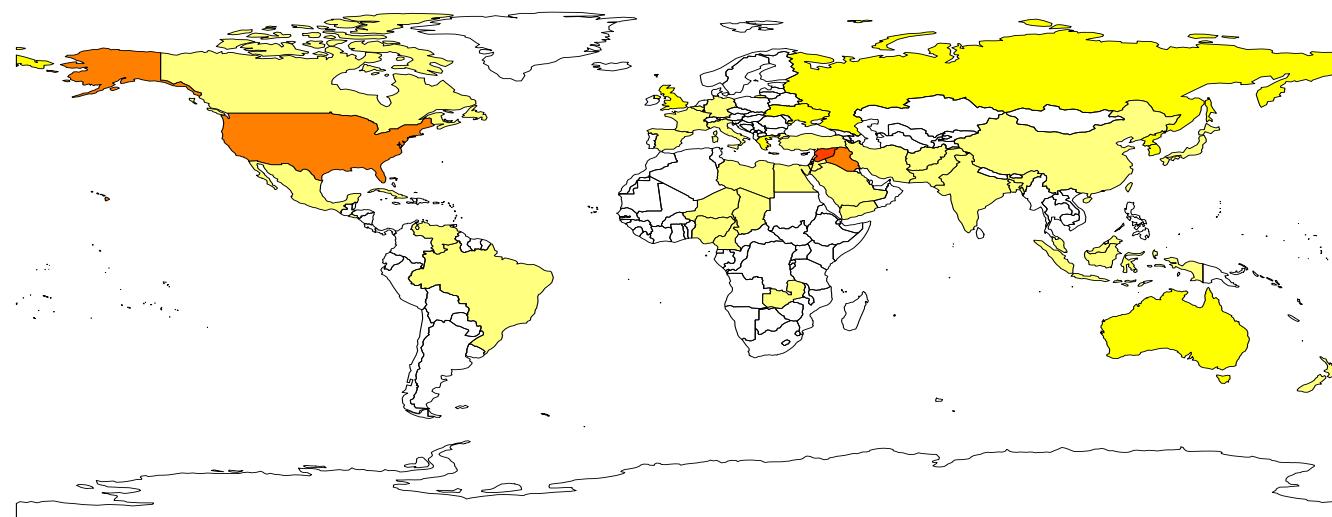
French, France

China, Chinese

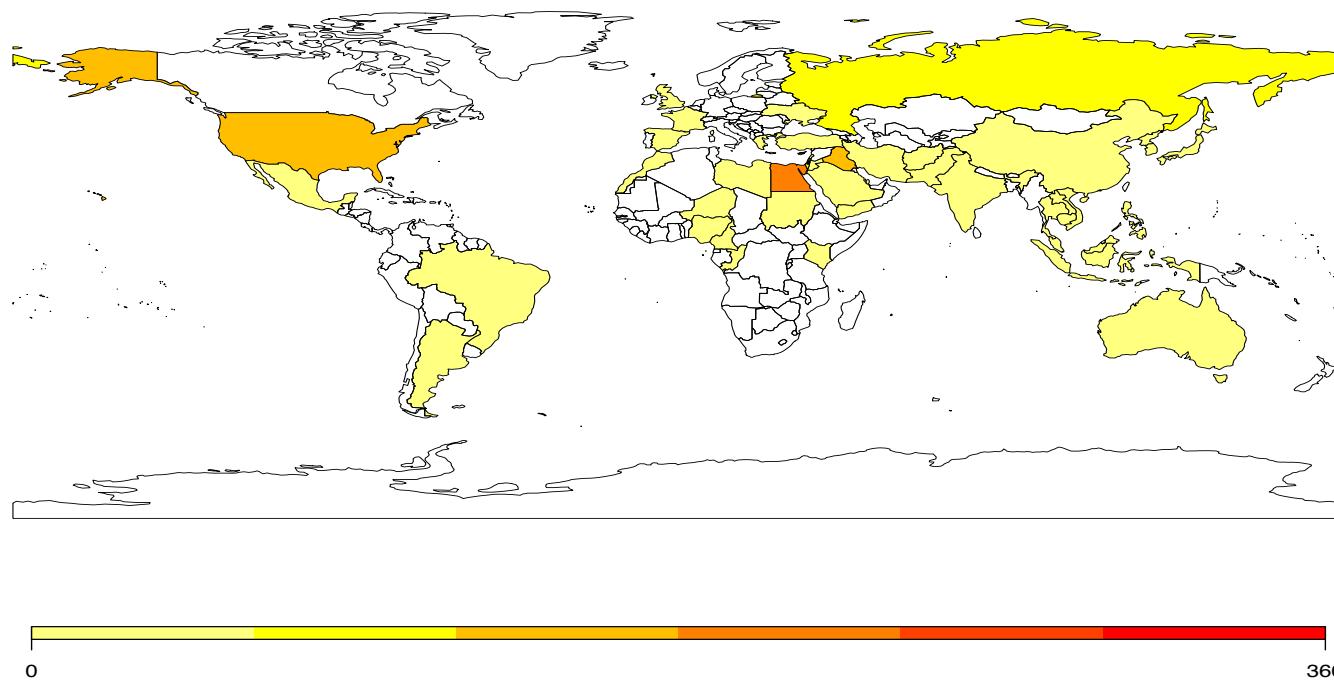
**Cnn World News Coverage**



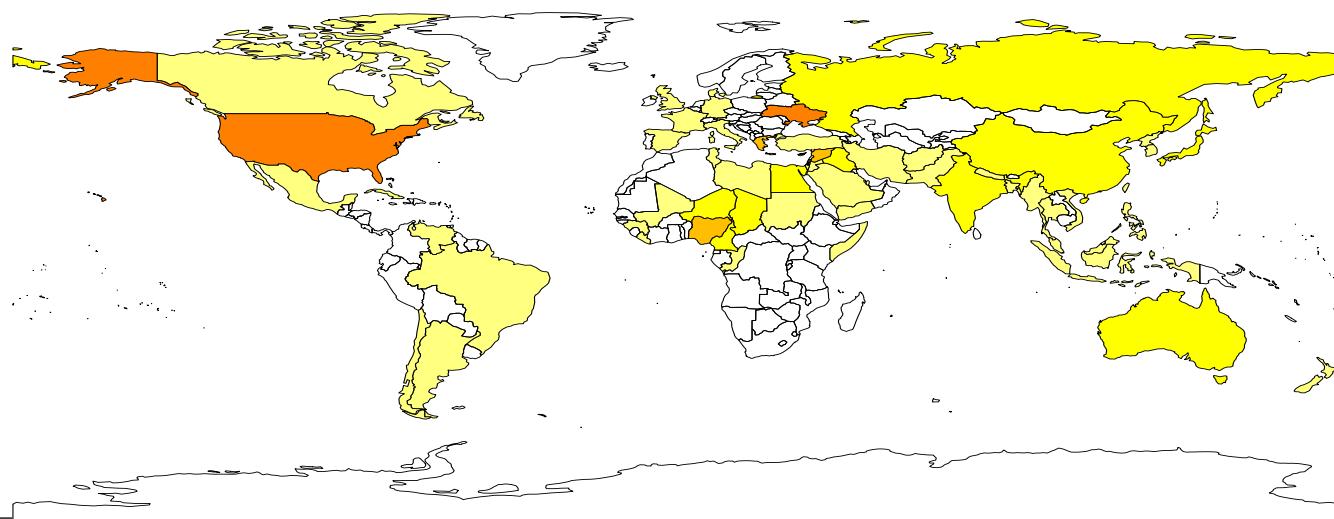
**Telegraph World News Coverage**



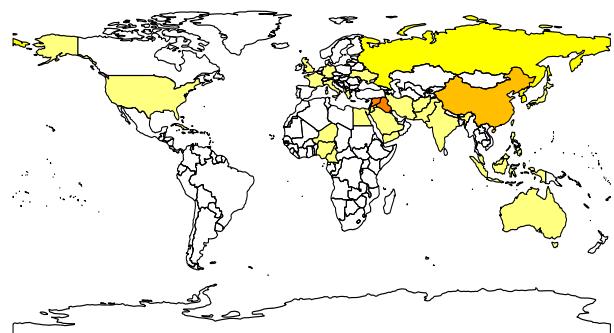
**Al Jazeera World News Coverage**



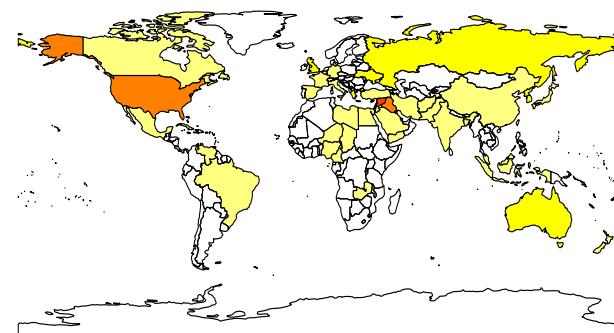
**Agence France-Presse World News Coverage**



### CNN World News Coverage

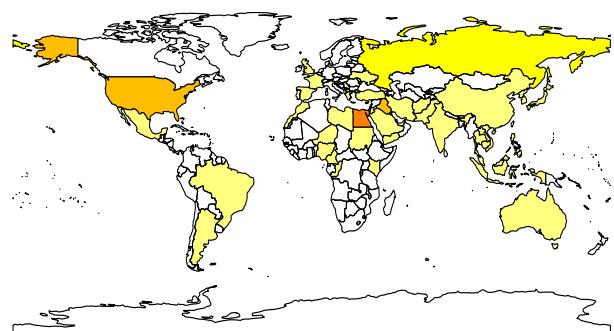


### Telegraph World News Coverage



0 360

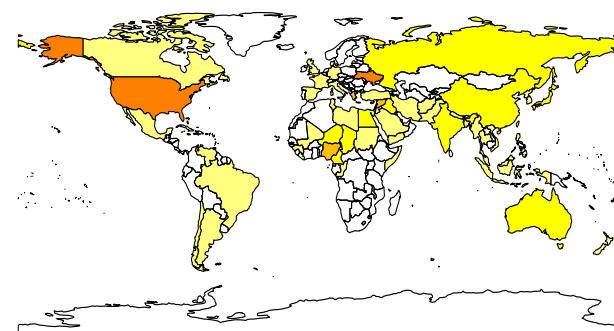
### Al Jazeera World News Coverage



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0 360

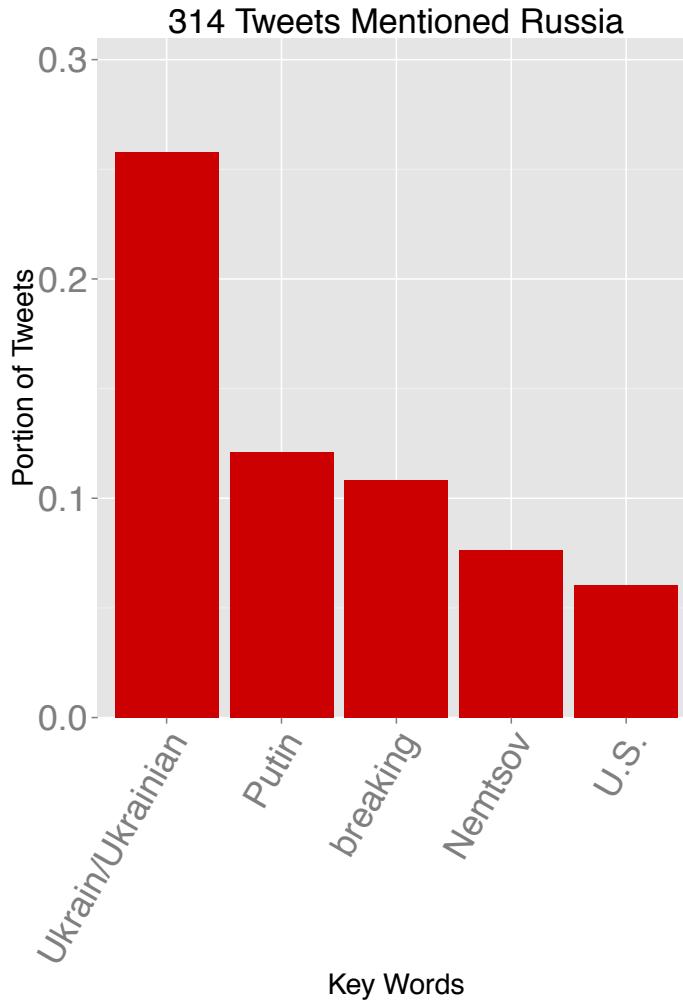
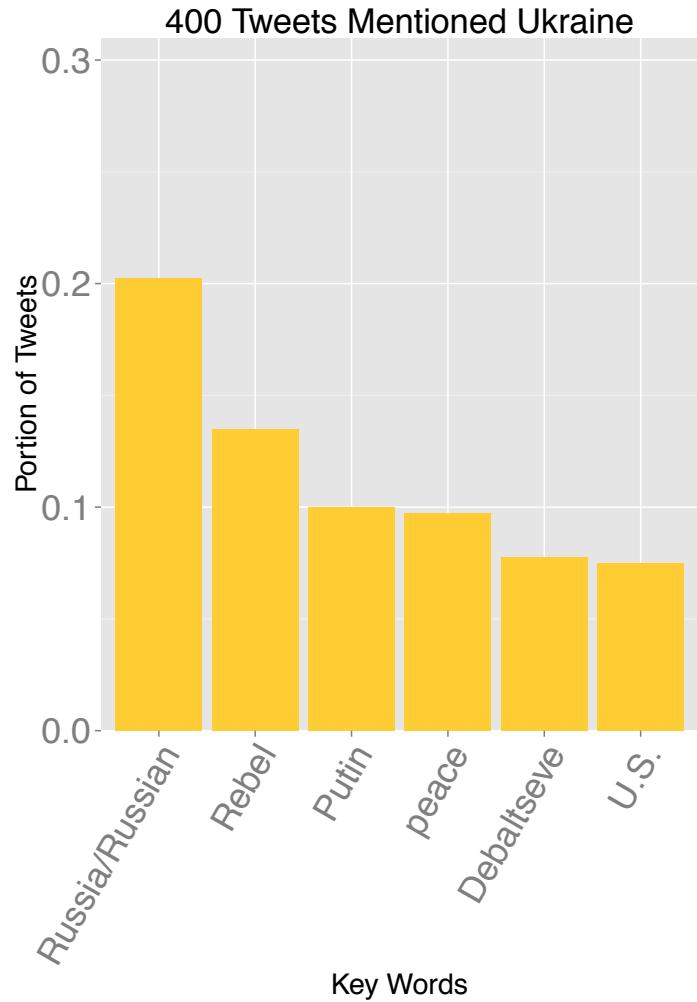
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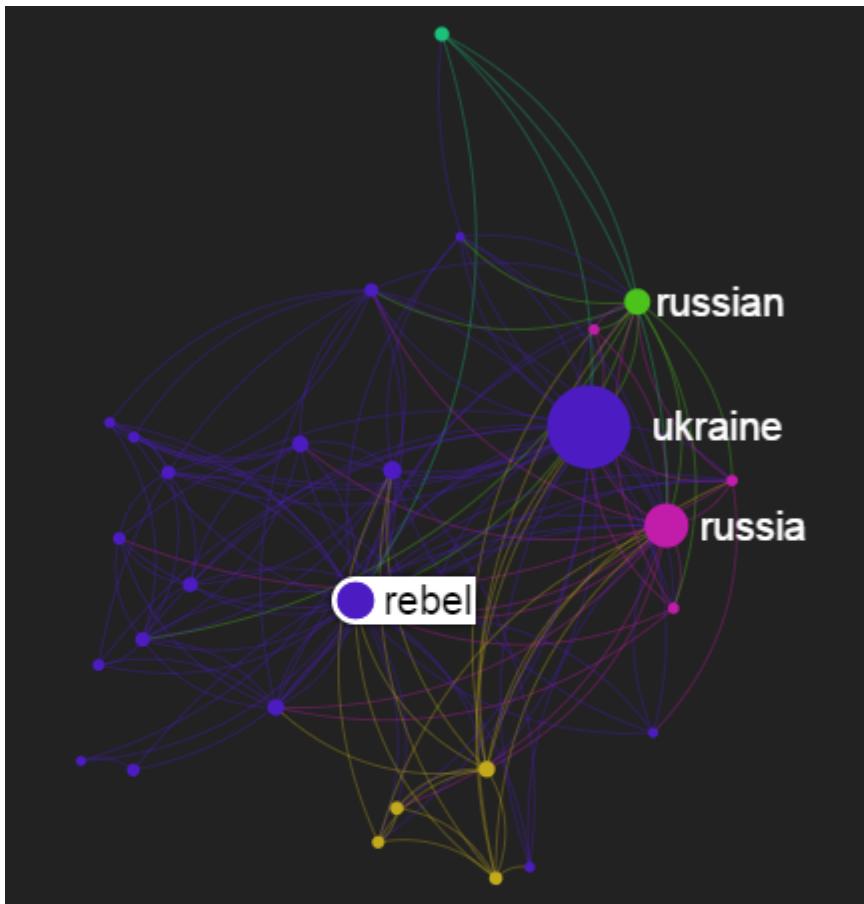
0 360

# Ukraine and Russia

- Identify the tweets related to each region
- count the number of tweets that contain each key word



# Visualize Tweets Involving both Russia and Ukraine as Network



Source : [Texttexture.Com](#)

Created by Nodus Labs, using the open-source free [Gephi](#) software and [Sigma.js](#) toolkit.

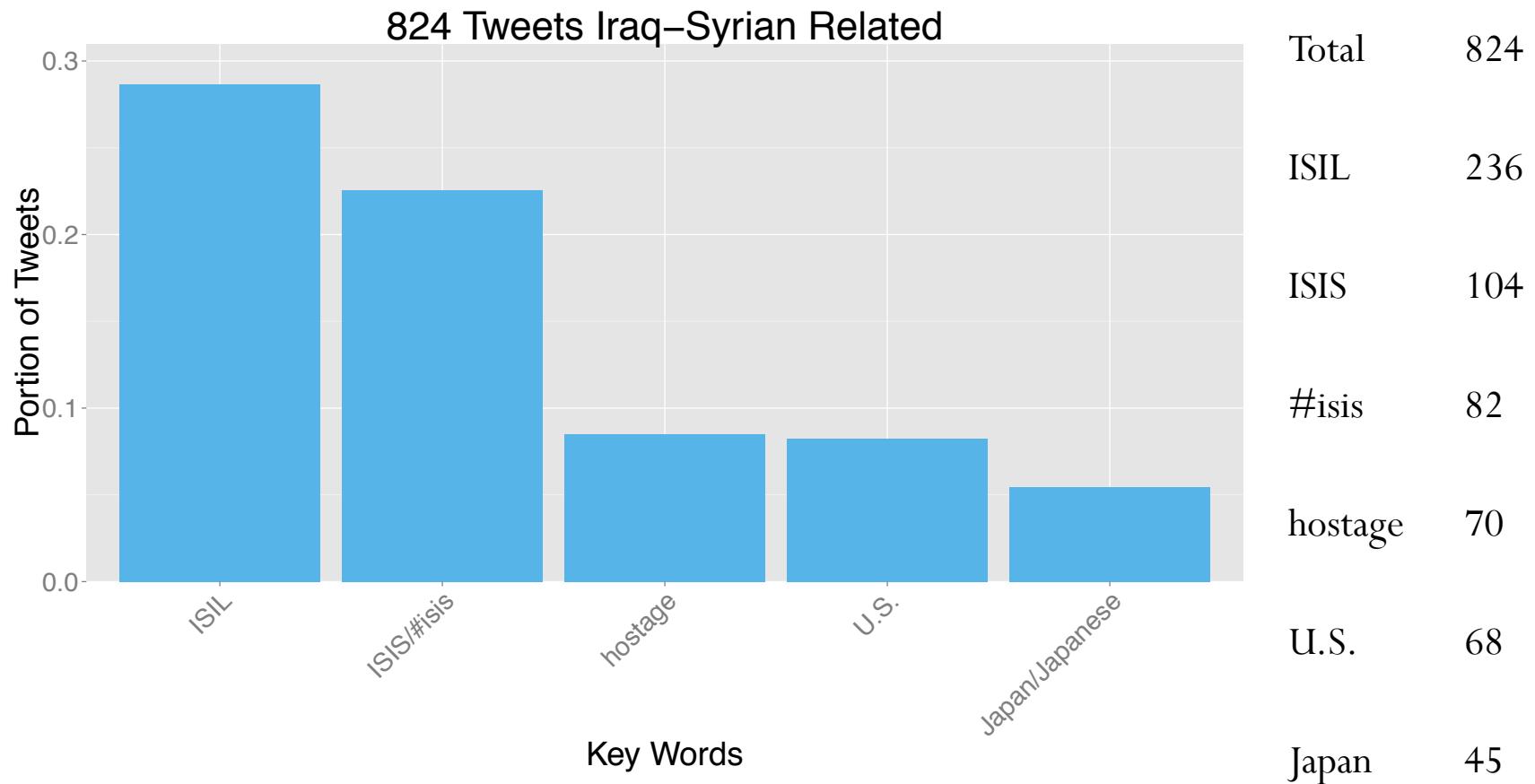
## Methodology:

- Remove “stopwords”
- Remove extra characters and turns every word into its morpheme
- Encode words ad nodes and encode co-occurrence by connecting the nodes.

Most influential keywords in this text:

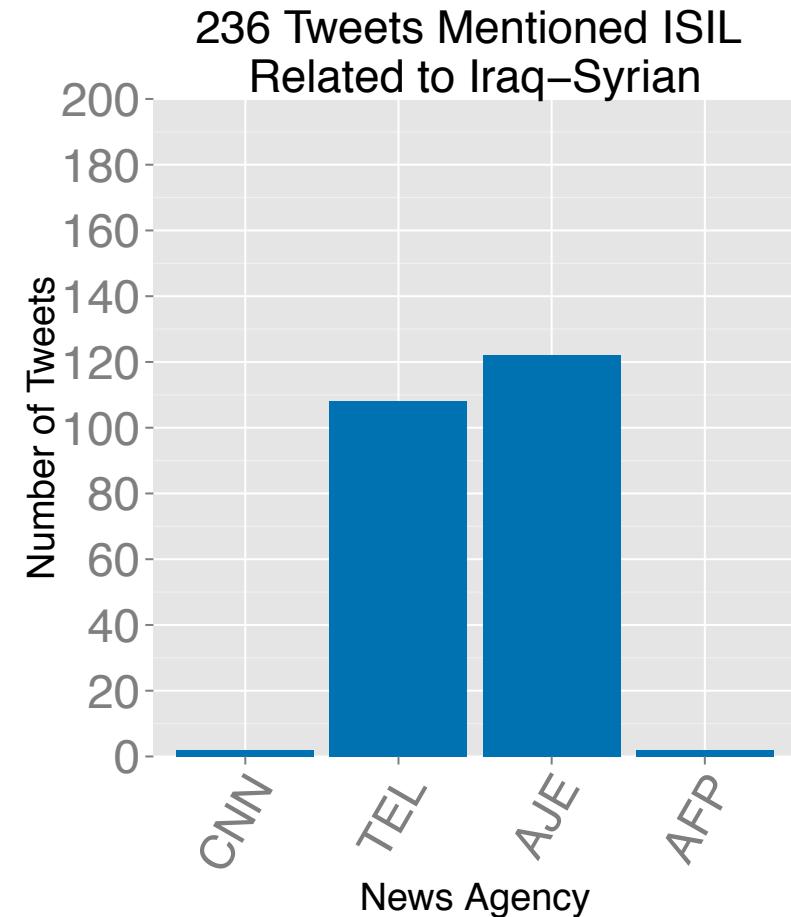
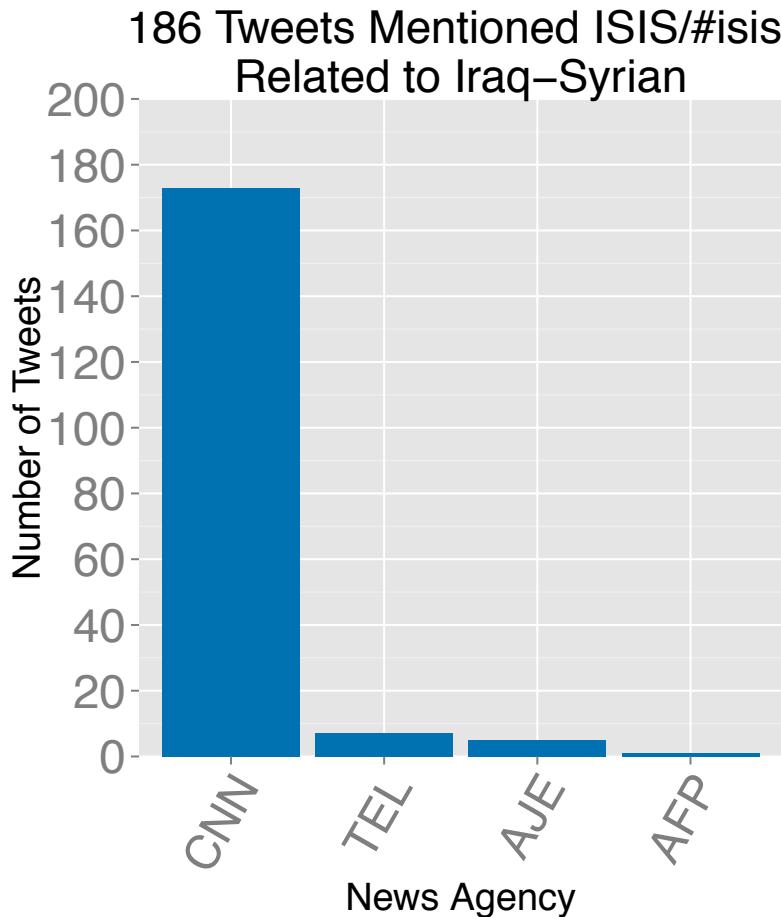
- **Ukraine**
- **Russia**
- **Russian**
- **Rebel**

# Iraq-Syrian Region



# Compare Across Agencies

- CNN prefers to use ISIS or #isis
- Telegraph and Al Jazeera prefer to use ISIL



# Conclusion

- Domestic
  - Similar topics
  - Difference in focus
  - Different attitudes
- International
  - Difference in topics and locations
  - Agencies have different choice of words