

Table of Contents

Overview and Motivation

Related Work

Questions

Data

Exploratory

Design Evolution

Implementation

Evaluation

Overview and Motivation

Provide an overview of the project goals and the motivation for it.

Our projects primary goal is to

Hours of attempting to find an event in the twitter era that we deemed historic and that would have an appropriate sample size of tweets brought us to the realization that the perfect topic was actually very recent. The restoration of diplomatic relations between the United States and Cuba on December 17, 2014.

This historic warming of relations between the US and Cuba was a monumental shift in foreign policy between two countries stuck in a bitter cold war for half of a century. The negotiations, surprisingly brokered by Pope Francis, made news on December 17th, 2014 and instantly captured everyone's attention. Republicans, Democrats, and politicians from around the world immediately put out statements to the media. Some were furious, others supportive. Many were cautious. Reports of the "Cuban Thaw" were all over the news. Footage from Miami, a heavily Cuban city, showed angry protesters in the streets holding up signs that said things like "This is treason" or "Obama is a traitor".

A pattern quickly emerged that continued throughout the day. **The loudest opinions that were repeated over and over all over the media**, belonged to people **in middle age and old age** who still vividly remember the Cold War and the Soviet Union and the constant threat of nuclear war (**attack**). Some of those Miami protesters lived in Cuba during the revolution that brought Communism to the country and destroyed countless families.

But it has been nearly 25 years since the end of the Cold War. **Most young Americans today adults only** know about Fidel Castro and the Soviet Union from history books, that is, if they know about them at all. Political scientists agree that they really aren't sure

how how this group of millions, the so called “millennials”, feel about the embargo. Of course they don’t. The answer is on Twitter, hidden inside a million tweets.

Related Work

Anything that inspired you, such as a paper, a web site, visualizations we discussed in class, etc.

When we first started looking for a dataset to use for our project we struggled to find one that caught our attention. One night while browsing the web I stumbled on something both fascinating and heartbreaking. Wikileaks had released 500,000 pager intercepts from the day of 9/11. They showed reactions from that day in 5 minute intervals through peoples communications with their friends and family.

We ultimately decided that 9/11 was too dark and painful of a topic we realized that it was a good jumping off point for discovering a different topic. We were both intrigued by the idea of visualizing high volume social communication during a single major event. While it didn't exist during 9/11, we realized that twitter was the perfect medium for finding such data. Looking through hundreds of thousands of thousands of tweets on a single event one is sure to find fascinating trends.

Questions

What questions are you trying to answer? How did these questions evolve over the course of the project? What new questions did you consider in the course of your analysis?

4/04/15, Project Starts

- Can we gauge public opinion of The Cuban Thaw through tweets?
- Do the opinions of Millennials match the political tendencies of the state where they are from?
- "How do Young Cuban Americans really feel about the policy?"
- "How do the 2016 Presidential candidates feel about the Thaw?"
- "How do members of Congress feel about the Thaw?"

4/18/15, Midpoint

- Can we gauge public opinion of The Cuban Thaw through tweets?
- How does tweet volume vary across the US?
- What proportion of Republicans in favor of the Thaw come from states with large agricultural industries? (Cuba imports 80% of its food)
- "How do the 2016 Presidential candidates feel about the Thaw?"
- "How do members of Congress feel about the Thaw?"
- Do the opinions of Millennials match the political tendencies of the state where they are from?

5/05/15, Project Due

- How does tweet volume vary across the World & the US?
- How important did the world find the event?
- Which countries found it *particularly* more important than others?
- What countries didn't appear to find it interesting which countries appeared unphased? / What countries weren't allowed to talk about it (no Twitter access)?
- "How do the 2016 Presidential candidates feel about the Thaw?"

Initially, the project had an audacious goal. We were going to determine how the world, the nation and each state felt about the US's new policy towards Cuba by extracting a sentiment value from each record in a dataset of 1 Million tweets from the date of the announcement and then visualizing this dataset by projecting the tweets onto a map color coded with demographic information (ex. most hispanic/least hispanic counties) and election data (Republican vs Democrat counties). Not only would this include Twitter users, but also politicians.

Our bold and ambitious goal started to look less likely when we noticed that 92% of the data lacked the coordinate-based geo-data (lat/lng or polygon) that we thought we were getting. Our once bulging dataset went from 1,020,000 to ~9,000. But that didn't dampen our enthusiasm much because our map of the US still looked pretty cool and we had 9,000 tweets to use for the sentiment analysis.

Unfortunately, a little more than a week later, it became apparent that our goal was virtually impossible given the time limitations. A leader in semantic analysis and natural language processing, Semantria awarded us a grant of several thousand credits(api calls) to use for our project, but after dozens of hours of tweaking Semantria's sentiment engine with custom dictionaries and other natural language processing optimizations, it was clear that it would take weeks if not months to fully optimize Semantria's algorithms such that the accuracy of the results would be high enough to allow us to make bold political declarations in our visualization. Highly sarcastic and often tangential political comments are rather difficult for many humans to properly understand, much less a computer.

At the eleventh hour, nervous about the project and unsure of our ability to deliver something "awesome", we brainstormed for alternate way of measuring the sentiment of a tweet. Thankfully, those tens of hours engaged in semantic analysis of the tweets

meant we both had logged countless hours staring at this data. All of it payed off when we finally realized that for a highly politicized event like the Cuban Thaw, the hashtags themselves are actual flags of sentiment.

During our brainstorming we also stumbled upon a couple tutorials that explain how to geo-code location strings. We got to work and after the usual repasted failers, we were successful at geo-coding almost 990,000 records. Again we had our full dataset that spanned the world.

Our solution was to double down on Big Data and put the user's focus on a global tweet map. We designed it so that users would make their own sentiment judgements based on the contextual information in the visualization alongside a list of top hashtags. An embedded twitter feed also enriched the experience by allowing the user to consider the text of the tweet as well.

Data

Source, scraping method, cleanup, etc.

We acquired the data through DiscoverText, an approved distributor of Twitter data. Data consisted of 1,020,000 records each containing a tweet along with extensive metadata.

Of 1 Million records, only 8,000 had exact coordinate data (geo-data in polygon type). The remaining records included only the self-reported location strings found in a user's profile. These strings often had spelling errors and sometimes they were completely nonsensical ("Neverland"). For most of the project, we wrote these records off and accepted them as useless data. And then, with slightly less than a week to go, we stumbled on "geocoding".

Geocoding turned our dataset from 8,000 to 1,000,000+. Geographic information was used with the maximum resolution available from the Twitter data stream. While we requested already-geocoded data from Twitter, surprisingly few tweets came back with legitimate location coordinates. When coordinates were available, they were typically of the "Polygon" style, describing not a point, but an area. Any Polygon location coordinates we collapsed to the geometric center (<http://en.wikipedia.org/wiki/Centroid>) of the polygon using standard techniques. (<http://upload.wikimedia.org/wikipedia/commons/thumb/5/5e/Triangle.Centroid.svg/182px-Triangle.Centroid.svg.png>) While Twitter often failed to provide precise location coordinates, in contrast it almost always provided each user's self-reported location, which can be thought of as each user's "home base." Examples include:

1. Cauquenes - Chile,
2. Boise, Idaho,
3. Johannesburg, SOUTH AFRICA,
4. Scotland.

While most are not precise to a street level, many are quite specific, giving state / regional location; some give an exact city, Others, however, are more whimsical:

1. planet tierra. o earth.
2. The Great State of Texas
3. North of where I came from
4. My underground lair.

Still others appear to be partial addresses, but are not sufficiently well-formed to be automatically converted into geolocations. For some of the missing data, a simple human edit was sufficient to reformat into a form that yielded a good geolocation; others simply had to be omitted as insufficiently geo-located / geo-locatable.

We then used the Python geocoder (<https://pypi.python.org/pypi/geocoder>) module to access an array of freely available web services provided by companies such as ArcGIS, Google, MapQuest, OpenCage, TomTom, Yahoo, and Yandex.



These services either transformed each textual location name / description into corresponding latitude and longitude coordinates, or reported failure in the attempt. In cases where no textual location was specified, or where

the geocoder could not conclude the latitude/longitude from the text provided (occasionally with some manual assistance), we discarded the data point and did not display it on the map.

Because so many locations needed to be generated, it was important to use multiple geocoding services, so that we did not overload any one free service.

Once available to our web application in CSV and JSON formats, we used standard D3.js geographic projection functions (<https://github.com/mbostock/d3/wiki/API-Reference#d3geo-geography>) to map latitude and longitude into SVG display locations.

The size, color, and styling of display elements are dynamically chosen based on data attributes of each tweet. The radius of a tweet is log-proportional to the number of followers a tweeter has, giving an idea of the "reach" of the message. Whether a tweet is a retweet / retransmission of another message is also visually signaled (in yellow).

Timeline

Tweets are displayed according to the time that they appear in the Twitter data stream. Tweets may occasionally stop displaying, or appear to pause. This is not an issue with the visualization, but rather a reflection of the fact that the Twitter data stream (at least as exported to us) lacks records for certain seconds.

For example, for one data file, the stream contains records for the following seconds:
0-44,59-539,553-562,568-599

But lacks them for seconds:

45-58,540-552,563-567

Data Cleaning and Preparation Pipeline

The goal with any large data set is to have a large, useful, correct, and consistent set of data points. But big data is invariably "dirty." It contains errors, omissions, and inconsistencies. The process of preparing data for visualizations is similar to the "Extract, Transform, Load" ([ETL](#)) of the database community. In addition, data has to be prepared in such a way that it's easily consumed and used by the visualization process (which is usually running on a client device, often in the middle of an animation loop) where there is little to no opportunity for significant data cleanup.

While the sparkle and flash of graphical animations are often seen as the high point of visualization projects, it really is the quality, quantity, relevance, and impact of underlying data that is most important. The process of cleaning and structuring the data for visual display is the proverbial "rest of the iceberg" that lies beneath the waterline.

Data files were sourced from Twitter in CSV format.

Example cleanups include:

1. More accurately assess whether a tweet is a retweet or not. Twitter supposedly provides this information in a bespoke field, but even a cursory examination of the data shows it is often wrong. It neglects the text style `retweet` which starts "`RT @userid`". While Twitter may wish to consider only retweets using its (newer) native format to be proper retweets, its users clearly still prefer the old style.
2. Locations. Twitter supposedly geo-locates tweets, but not very well or very often. When it goes a location, it often does so as a very large geographical area (a polygon) which should be collapsed to a single point for plotting purposes. So we use publicly available geocoding services to translate self-reported user locations into geographical points.

We depend on both the accuracy of the user information (for both retweets and locations) and the accuracy of geocoding services (for locations). Realistically, there will be some errors in the resulting data, no matter how extensively we work to clean it up. Some users will mistype the conventional retweet marker (e.g. "RY @username"). Some will use non-standard, or at least non-English-standard, markers. Some will forget to mention they are copying others' content, or will use alternate quotation means (e.g. good old "quotes" and/or --attribution). When it comes to locations, some users don't provide accurate information, or use the field for metaphorical descriptions. The geocoders may misunderstand intent. *Et cetera.*

A benefit of working with large data sets is the [Law of Large Numbers](#). Yes there may be some errors, but they will generally be overwhelmed by the correct data that is displayed. Humans are pretty good at discarding outliers. The second virtue is visualization, which provides a high-bandwidth mechanism for humans to interact with data. If things are out of kilter, they have a high propensity to notice when there are corresponding visual effects and outcomes--much more so than if the data variances were hidden in otherwise dense textual formats or statistical aggregations.

Human oversight is reasonably important in managing such data pipelines, since you want to incrementally improve the data. It often helps to have someone watching early failures to realize that "You know, a lot of these geocoding failures are on locations that end with a period--and that period does seem out of place here. What if, on locations that fail on the first attempt, we remove the final period and try again?" Or "A lot of people sure do want to make their country #USA a hashtag. Maybe geocoders aren't savvy to that. If we see things that look like a hashtag, let's remove that and try again." Such rule-based cleanups dramatically improve data coding effectiveness.

Infrastructure

We used cloud servers to run the geocoding process, so that we could have multiple systems working on the problem at a time. We used 4 external servers at most times, bursting to 8 late in the process as our automation scripts became more mature.

Subdividing the data for the multiple servers was a bit of a chore. We wrote some simple `bash` (Unix shell language) scripts to help automate it, but more work there would be good for dealing with large data sets.

Spreading processing over multiple geocoding services was a net win, allowing us to process a very large number of requests and geocode almost a million tweets (where the original data only had a few thousand geocodes present). But dealing with multiple services introduces some variance. Google, MapQuest, and Google may not agree on the exact location of a place, for instance. They generally are very close--but it's not exact. Also, some geocoders can code some locations that others have trouble with. Geocoding automation was a huge win, but introduced its own complexities and a bit of variance in the resulting data.

Animation Engine

The map-based animation of tweet occurrence uses the [D3.js](#) framework to plot [SVG](#) shapes against a geographic background. D3.js handles most of the heavy lifting of mathematically converting from latitude and longitude onto various map projections and thence onto SVG display coordinates.



We use two map projections, a [conic conformal projection](#) for the US map, and a [Kavrayskiy 7 pseudo-cylindrical](#) for the world map. Choosing a map projection is a balance between optimizing multiple competing geometric properties and achieving pleasing visual aesthetics.

The primary animation routine is quite short, basically pulling in a second-by-second array of animatable events via [JSON](#) and displaying them according to various properties. Larger tweets reflect larger follower counts for the tweeter, thus a larger addressable audience. Retweeted content ("someone else said...") is displayed in a lighter color (yellow) to reflect the lesser originally. Purple borders are applied for tweets that are favorited, indicating enthusiasm of reception.

Keeping the tweet animation "fed" is a significant responsibility, since it plays at upwards of 20x real-time display rates. Thus, if there are 15 or 20 geocoded and animatable tweets in a given second--not an unreasonable estimate--there will be 300

to 400 new animation objects added per second. Animations last up to 2 seconds, considering their emergence and then incremental dissipation, so there can be easily be 600 to 800 animations in progress at any given instant. Feeding this requires an optimized JSON format, which is prepared by our backend data cleanup.

But a vast number of optimizations were required before we could start to visualize Big Data.

We expected clean, uniform, and categorized data but twitter data is actually very messy. We spent equal or more time in data wrangling / analysis than in visualization.

Tools for semantic analysis are many, but we went with Semantria because they are strong supporters of visualization education and data research.

While Semantria is the industry leader, but dataset proved too unruly to handle in a limited amount of time. But great for exploration/derivative semantic measures. Had to get a virtual windows 8. Datafiles so big, excel would routinely crash. Crazy amount of cleaning had to be done just to do the semantic analysis. Limited api calls means, have to put serious thought into it.

Exploratory Data Analysis:

What visualizations did you use to initially look at your data? What insights did you gain? How did these insights inform your design?

- ❖ For most of the project, we were unable to do proper data visualization during exploration because data set was orders of magnitude larger than anything we were prepared for, because most lacked reliable/easily usable geoData/.
- ❖ Main visualization for most of project was a slice of tweets mapped against US shaded to Obama Romney election results.
- ❖ We learned this was a massive dataset.

- ❖ Semantic Analysis is very very hard. Entities vs Documents, phrases, language detection (n-grams).
- ❖ Realization that a proper semantic analysis would not be feasible led to the pivot.

Design Evolution:

What are the different visualizations you considered? Justify the design decisions you made using the perceptual and design principles you learned in the course.

[Include pictures and use theory from book]

- ❖ struggles with color and maps
- ❖ deciding between greater honesty and greater utility/ greater aesthetics.
- ❖ deciding whether to aggregate and how to aggregate. Semantic analysis posed difficult aggregation questions. “If your visualization is correct at the aggregate but internally it is very volatile and wrong, is it a good visualization?” / “Meaning of average”
- ❖ “One page” website design vs traditional multi-page design in terms of story telling.
- ❖ Implementation: Describe the intent and functionality of the interactive visualizations you implemented. Provide clear and well-referenced images showing the key design and interaction elements.

Evaluation:

What did you learn about the data by using your visualizations? How did you answer your questions? How well does your visualization work, and how could you further improve it?

The US embargo of cuba was a very big deal to people in Latin America and Europe. The Thaw crossed into the mainstream conversation with many ordinary people commenting on it.. Also, even though Twitter skews young, Florida still erupted with activity indicating a young cuban population is politically engaged which could prove dangerous to some politicians.

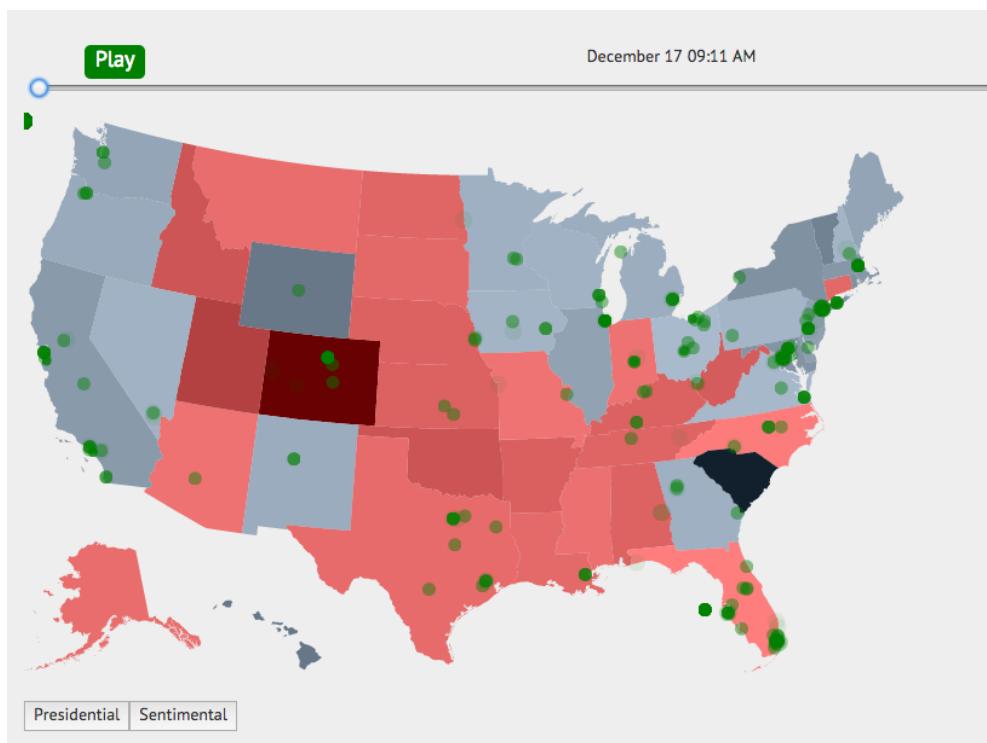
We had no idea Venezuela's Twitter has such an extensive presence. as much as it did. Venezuela has been Cuba's closest ally over last 10 years. That ended with death of Hugo Chavez and now the collapse of oil which Venezuela's economy depends on as one of the largest exporters of petroleum in the world.

We chose this dataset because we felt strongly that our dataset is truly a significant part of history. Not only did it capture a historical detente, but it did so using the natural expressiveness and stream of consciousness style that Twitter is famous for. This dataset will one day allow future historians to read the mind of humanity which we think is very that man If you truly understand this dataset, you can know the minds of hundreds of thousands of people in the US and around the world.

Improvements:

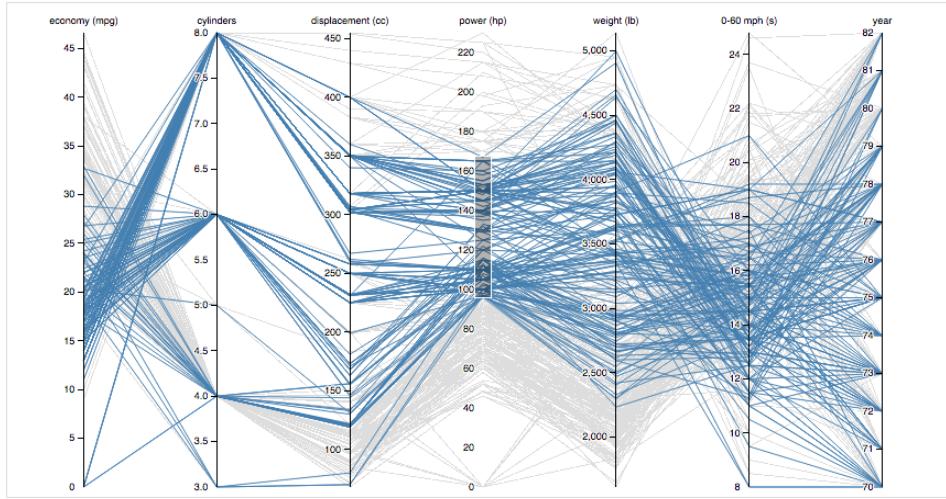
- 1) Take 2-3 months and dive extremely deeply into semantic analysis (not recommended, there are better ways)
- 2) Given that tweets can be either retweets to your followers or just an original comment or thought, we can build a graph of tweets to show the flow of information. Flow of tweets between cities. If Miami's tweets are indeed against the new policy, than interesting links would emerge between Miami and more rural anti-Obama areas.

- 3) We could have tweets of a certain hashtag increase the proportion of that color in a country's color, thus country takes on the color of most popular hashtag



Our main visualization for most of the project. Map of the US with a small subset of full dataset (8,000 vs 1,000,000+). Colors were meant to represent either states Obama won or Romney won, but the actual color is just a basic prototype choice.

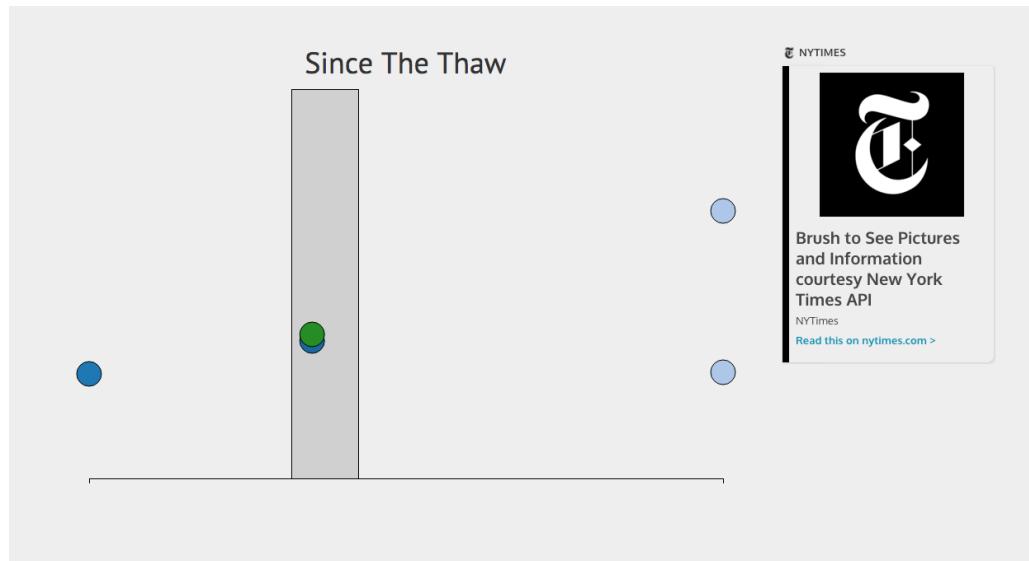
Parallel Coordinates



This is a version of Mike Bostock's parallel coordinates example, modified to include reorderable axes.

[Open in a new window.](#)

Discussed with TA about turning visualization of presidential candidates into a Parallel Coord vis, but while technically interesting and visually complex, we feel that this is too advanced for our expected users and their use cases. It is neither the most intuitive solution nor the most promising of insight given that we know apriori that party affiliation has by far the strongest predictive ability given how most candidates agree very closely with party line



Purpose of this vis was to communicate to the user the immediate consequences of the Thaw through events happening in the news. This brush queries the NYTimes for articles related to Cuba between the brush's extent.

The Next President & Cuba



[For | Against]

The Cuban Thaw Tweet Map The Next President & Cuba Since The Thaw

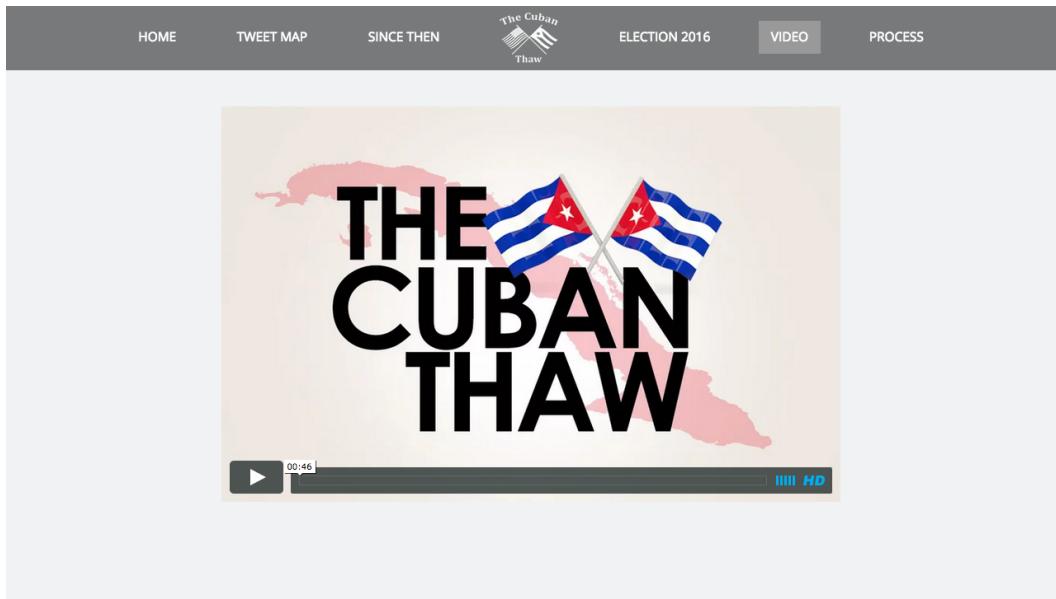
Play December 15 18:11 PM

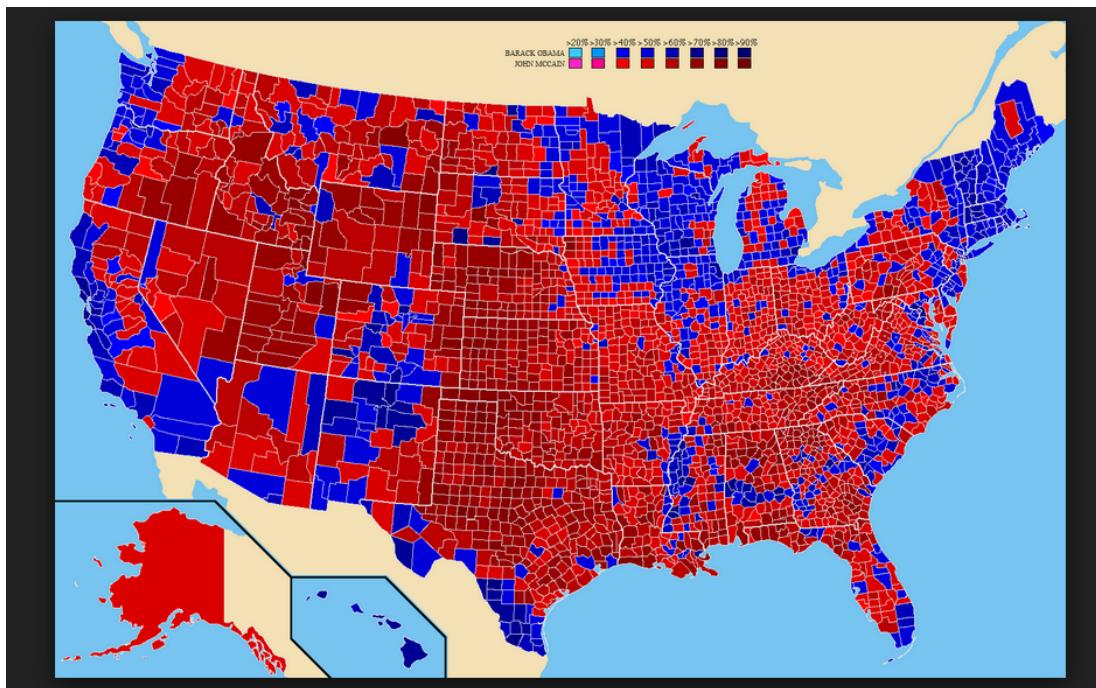
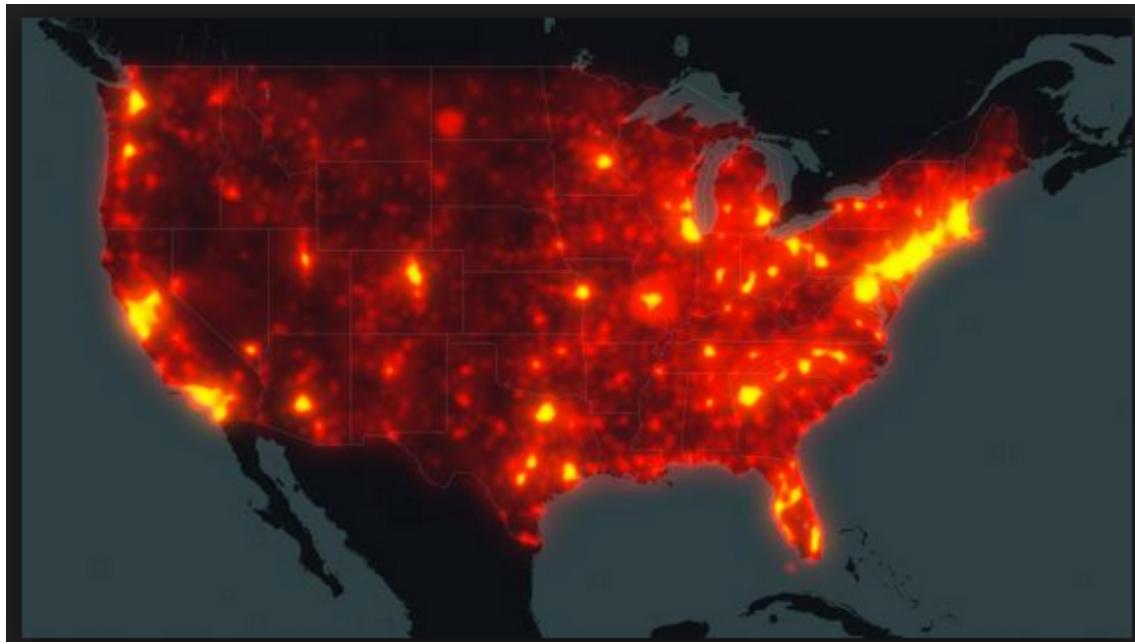
Presidential Sentimental

Senators

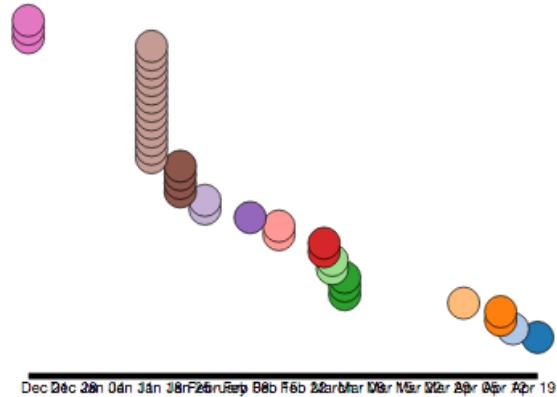
Representatives

This interface allows users to explore political data related to the 2016 US election, specifically focusing on support for Cuba. It includes a map of the US showing state-level sentiment, a grid of candidate portraits, and sections for senators and representatives.





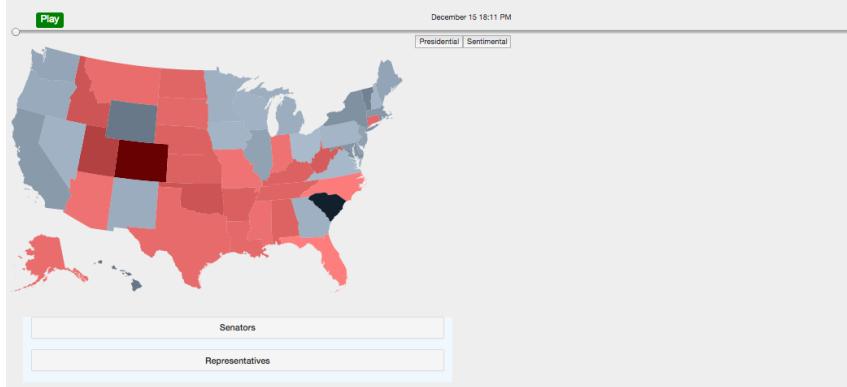
Thaw Events



z = M

The Next President & Cuba





TopMeta Discovery

x

Top values for: country_code:

◀◀ 1 of 6 ▶▶

Meta Value	Total	Filter
United States	746	🔍 +
Venezuela	199	🔍 +
Brasil	195	🔍 +
España	128	🔍 +
Chile	114	🔍 +
México	93	🔍 +
Colombia	91	🔍 +
Argentina	85	🔍 +
United Kingdom	51	🔍 +
Canada	45	🔍 +

Showing 1 to 10 of 57 total

A1		ivan_sentiment_copy.xlsx																		
	ID	Source Text	Summary	Detected Language	Document Sents	Document Sentiment	Phrase Intensity	Phrase Negativ	Phrase	Phrase Sentiment	Phrase Sents	Phrase Sents+/−	Suggested Phras	Entity	Entity Type	Entity Sentiment	Entity Sentiment Eviden			
1	4715-975-	suffered enough Let's move int Cuba. The Cubans will have English	15	0.102 neutral	EndTheEmbargo	0.4 positive	1 positive													
1516	4715-975-	and help express some dissident?!	15	-0.392 negative	n't Obama	0.4 negative	7													
1517	4715-975-	Love this move by Tim for Cuba to make progress.	15	0.1859 neutral	Cuba	Place	0.0147852 neutral													
1518	48m-Refre-	normalization with Cuba	16	0.36427 neutral	Cuba	Place	0.036427 neutral													
1519	48m-Refre-	Kim Jong-un and Castro brothers. How pathetic!	16	-0.008125 neutral	Cuba	Place	0.008125 neutral													
1520	457f-b222-	NormalizationOfCuba Dip	4	0.49 positive	Cuba	Place	0.49 neutral													
1521	457f-b222-	the people of Cuba will have better lives because of this	18	0.06732 neutral	Hopefully	0.21916 positive	0.5245 positive													
1522	4251-9baa-	Happy Hanukkah to Alan and Judy Gross!! Cuba	3	0.2 neutral	Happy	0.2 neutral	0.5 neutral													
1523	4251-9baa-	den illegal	18	-0.2151 negative	still	0.1 negative	0.1 neutral													
1524	4660-f11-	cuba this is a massive photo op and thumb in the eye	18	-0.2074 negative	Legal	0.2 negative	0.1 neutral													
1525	4660-f11-	remember why we are	18	-0.3231158 negative	freedom	0.2392 negative	0.118 neutral													
1526	4207-hd5e-	I can never talk Never like this? A Ray of Hope! Cubans	12	0.04 neutral	photo	0.2 negative	0.8077854 negative													
1527	44ab-878d-	Cuban-Americans!	12	0.04 neutral	mad	-0.3333158 negative	0.8 remember													
1528	4fb8-81B8-	debit and credit cards in	16	0.0616354 neutral	Huge	0.08 neutral	0.8 never like													
1529	451a-a4a1-	(Till now only European ones have worked there).	16	0.446632 positive	European one	0.0616354 neutral	0.5 neutral													
1530	451a-a4a1-	Cuba's human rights record?	16	0.446632 positive	human rights	0.446632 positive	0.1 telling													
1531	5770-975-	Marketers think it's a public relations	12	0.162 neutral	Cuba	Place	1.1508 positive													
1532	5770-975-	policy on Cuba Long	12	0.162 neutral	so	0.529675 positive	0.0 many pluses													
1533	5770-975-	Cuba ties are a win for	15	0.2920001 neutral	happy	0.529675 positive	0.0 neutral													
1534	4230-aef-	winning	15	0.5 negative	Embrace	0.1 positive	0.5 positive													
1535	4230-aef-	Hispanic voices. Cubans in Miami have been able to	15	0.5 negative	as isolated	China	Place	-0.334551 neutral												
1536	4230-aef-	windressing	15	0.5 negative	bad	-0.6 negative	0.5 negative													
1537	428f-a809-	Cubans in Miami have been able to	15	0.5 negative	torture	-0.49 negative	0.5 negative													
1538	428f-a809-	CartoonistsAgainstCrime in 1991, my strongest	11	0.0384535 neutral	just look	0.080835 neutral	0.4 neutral													
1539	428f-a809-	CartoonistsAgainstCrime in 1991, my strongest	11	0.0384535 neutral	strongest	0.196 neutral	0.4 neutral													
1540	4eef-bf91-	who orchestrated the	15	0.106 neutral	Crime	-0.2400394 negative	0.4 founder													
1541	4eef-bf91-	policy pivot. In real life, it was Ben Rhodes	15	0.106 neutral	in	real life	0.212 neutral													
1542	4eef-bf91-	who orchestrated the	15	0.106 neutral	Lev	0.1 neutral	0.1 neutral													
1543	4eef-bf91-	policy pivot. In real life, it was Ben Rhodes	15	0.106 neutral	Ben Rhodes	Person	0.1 neutral													
1544	4778-13d6-	Marketers think it's a public relations	12	0.5808003 neutral	thanked	0.5880001 positive	0.0 neutral													
1545	4778-13d6-	Doctor Shargain 2.	15	0.1 positive	Cuba	Place	1.1 positive													
1546	4778-13d6-	Embrace	15	0.1 positive	Embrace	0.1 positive	0.5 positive													
1547	4778-13d6-	Zimbabwe, and Egypt Regimes that use torture are bad	18	-0.2023413 negative	as isolated	China	Place	-0.334551 neutral												
1548	4778-13d6-	Zimbabwe, and Egypt Regimes that use torture are bad	18	-0.2023413 negative	bad	-0.6 negative	0.5 negative													
1549	4778-13d6-	Zimbabwe, and Egypt Regimes that use torture are bad	18	-0.2023413 negative	torture	-0.49 negative	0.5 negative													
1550	4778-13d6-	Zimbabwe, and Egypt Regimes that use torture are bad	18	-0.2023413 negative	just look	0.080835 neutral	0.4 neutral													
1551	4778-13d6-	relational	15	-0.12 negative	violations	-0.24 negative	0.8 n't believe													
1552	475-8496-	normalizations with Cuba after all the human rights	19	-0.12 negative	All	0.27244 negative	0.8 U.S.													
1553	475-8496-	would try to normalize	19	-0.12 negative	terrorists	-0.27244 negative	0.8 China													
1554	48f7-8254-	impassioned response to new Cuba policy. Speaking	9	0.039333 neutral	impassioned	0.168 neutral	0.8 Maro Rubio													
1555	48f7-8254-	Obama has a long history of codding tyrants... .	9	-0.1903031 negative	tyrants	-0.6 negative	0.8 Obama													
1556	48f7-8254-	to rot away in a Cuban jail	16	-0.5333334 negative	rot	-0.6 negative	0.8 M. Gross													
1557	48f7-8254-	of adding tyrrants... .	16	-0.5333334 negative	restoration	0.4042857 positive	0.8 Iran													
1558	48f7-8254-	now making	15	0.2675459 positive	diplomatic ties	0.138004 neutral	0.8 Company													
1559	48f7-8254-	Rubio now making	15	0.2675459 positive	Raul Castro	Person	0.2675459 neutral													
1560	48f7-8254-	of adding tyrrants... .	15	0.2675459 positive	Raul Castro	Person	0.2675459 neutral													
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1562	48f7-8254-	of adding tyrrants... .	15	0.2675459 positive	freedoms	0.272 positive	0.8 president													
1563	48f7-8254-	negotiator we have ever had... Cuba, his home, did not	19	-0.0347957 neutral	worst	-0.196 negative	0.8 Cuba													
1564	48f7-8254-	negotiator we have ever had... Cuba, his home, did not	19	-0.0347957 neutral	AA	AB	-0.0868937 neutral													
1565	48f7-8254-	president has to be the	19	-0.0347957 neutral	AC	AD	-0.0868937 neutral													
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Has_Geo_Cuba_9-export-20150412-113248.csv																								
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Logout

Dashboard

Peers / Requests

Messages

Notifications (20) new

Project: (Grip Historia - Geo_Cub)

Documents

Grip Historia - Geo... ▾

- └ Data Archives
 - └ Has_Geo_Cuba
 - └ Has_Geo_Cuba-1
 - └ Has_Geo_Cuba-10
 - └ Has_Geo_Cuba-11
 - └ Has_Geo_Cuba-12
 - └ Has_Geo_Cuba-13
 - └ Has_Geo_Cuba-3
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 - └ Has_Geo_Cuba-5
 - └ Has_Geo_Cuba-6
 - └ Has_Geo_Cuba-7
 - └ Has_Geo_Cuba-8
 - └ Has_Geo_Cuba-9
 - └ Buckets
 - └ Datasets

Coding

Analytics / Export

Tools

Help

Search and Browse Archive

Has_Geo_Cuba-S (Are: New tab)

Showing 99,978 to 200,000 of 100,000 total

Add to Bucket: New | Existing | Selected

Advanced filters

4,000 of 4,000

 - └ RT @arzE: If two Rolex can live happily next to each other, why can't the US & Cuba?? http://t.c...
 - └ @eliaspm Rubio Warns Congress Will Resist Cuba Policy http://t.co/597c5nAsZ via @NYTPolitics
 - └ Presidente @NicolasMaduro destaca "valentía" de Obama para restablecer relaciones con Cuba http://t.c...
 - └ @marcorubio you speak very well sir, I disagree with your opinion on #CubaPolicy but I respect it.
 - └ Raúl Castro confirma que los tres agentes cubanos ya están en La Habana http://t.co/dLVN1xnPxn
 - └ Curiosidades #EEUU #Cuba http://t.co/6WnBAGVoQC
 - └ Para enterarse del acontecimiento histórico del restablecimiento de relaciones entre Cuba y EUA, sig...
 - └ @joshrogin @jaketapper the inclusion of Cuba on that list has long been debatable.
 - └ RT @Palestina: Terminará embargo después de medio siglo de bloqueo yanqui contra Cuba? Ojalá! Y el b...
 - └ @BarackObama TAKING OFF MY HAT FOR OPENING RELATIONS WITH CUBA &@Pontifex GOD BLESS YOU !!ps.f...
 - └ RT @ActualidadRT: #Obama anunció que pedirá al Congreso estadounidense levantar el bloqueo de Cuba h...
 - └ RT @itvnews: Pope Francis congratulates US and Cuba on agreement http://t.co/RL3YM1tASO http://t.co/...
 - └ Say what you want about Cuba...but Lena Olin in Unbearable Lightness of Being > Lena Olin in Hava...
 - └ RT @arzE: If two Rolex can live happily next to each other, why can't the US & Cuba?? http://t.c...
 - └ RT @marclamonthill: The Left must demand the continued protection of our political prisoners by the ...
 - └ RT @ultimosegundo: Espião libertado forneceu informações cruciais para processos contra cubanos http...
 - └ RT @MauroMura11: La UDI cuando supo lo de EEUU y Cuba. http://t.co/RkgLkTHiGo
 - └ RT @WRadioColombia: #AlAire análisis con Claudia Palacios @claudiapccn, noticia del dia: se acercan ...
 - └ RT @WhiteHouse: President Obama speaks with President Raúl Castro of Cuba before announcing his #Cub...
 - └ Alegra al Papa que Cuba y EU superaran dificultades: El Pontifice dijo estar "vivamente" complacido...
 - └ No pude con los tweets <<Vzla Cuba U.S.A>> JAJAJAJAJAJAJAJA
 - └ RT @arzE: If two Rolex can live happily next to each other, why can't the US & Cuba?? http://t.c...
 - └ Qdirán ahora los Robolucionarios Vzlanos? Presidentes d Cuba y Estados Unidos acuerdan normalizar ...
 - └ RT @CaracolRadio: Presidente Juan Manuel Santos se manifiesta esperanzado por el diálogo entre EEUU ...
 - └ RT @sinderbrand: WashPost Cuba heds before and after, 53 years apart. http://t.co/tiuVX89W

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Search and Browse Archive Has_Geo_Cuba-5 (Archive) Showing 89,970 to 100,000 of 100,000 total

Add to Bucket: New | Existing | Selected Advanced filters [\[Search\]](#)

4,000 of 4,000

RT @arzE: if two Rolex can live happily next to each other, why can't the US & Cuba?? http://t.c...

@Elaspin Rubio Warns Congress Will Resist Cuba Policy http://t.co/597c5nPAsz via @NYTPolitics

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@marcorubio you speak very well sir, I disagree with your opinion on #CubaPolicy but I respect it.

Raúl Castro confirma que los tres agentes cubanos ya están en La Habana http://t.co/DLYNixPxn

Curiosidades #EEUU #Cuba http://t.co/GWnBAGVoQC

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RT @ActualidadRT: #Obama anunció que pedirá al Congreso estadounidense levantar el bloqueo de Cuba h...

RT @tvnews: Pope Francis congratulates US and Cuba on agreement http://t.co/R3YMI1ASO http://t.co/...

Say what you want about Cuba...but Lena Olin in Unbearable Lightness of Being > Lena Olin in Hava...

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RT @marclamonthill: The Left must demand the continued protection of our political prisoners by the ...

RT @ultimosegundo: Espião libertado forneceu informações cruciais para processos contra cubanos http...

RT @MauroMura11: La UDI cuando supo lo EEUU y Cuba. http://t.co/RgkLKHG0

RT @WRadioColombia: #AlAire análisis con Claudia Palacio @claudiapcmn, noticia del día: se acercan ...

RT @WhiteHouse: President Obama speaks with President Raúl Castro of Cuba before announcing his #Cub...

Algebra al Papa que Cuba y EU superaran dificultades: El Pontifice dijo estar "vivamente" complacido...

No puede con los tweets <<Vla Cuba U.S.A>> JAJAJAJAJAJAJAJA

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Archive Tag Cloud (Current Project: Select a Project [\[Select\]](#)) Reports > Report Filters > Archive Tag Cloud

CloudExplorer Archive Tag Cloud Report generated on: 5/5/2015 5:12:03 AM

Archive Name: (Project: Gnip Historic - Geo: Cuba)

Re-Generate Tag Cloud

cuba obama eeuu relaciones relations president cuban castro barackobama entre estados unidos diplomáticas cubanos diplomatic embargo people cubapolicy usa sobre normalize raul whitehouse live gross papa histórico raul presidente cubano watch policy ahora 50 https america alan uscuba barack ha begin anuncia francisco bloqueo travel eu le breaking approach años cigars pres news hoy pueblo más reestablish eu historic time politica sus popa todos cnece restablecimiento cubans embassy vivo bbccraking dice venezuela fin urgente american hand americans hacia havana dia obamas les friendship https extends americanos announces outdated embajada changes talks ser nuevo sanctions change deal gobierno normalizar ties isolation rubio statement relaciones francis somos agreed telusurv cnbrk ap decades desde announcement liberación relationship em maduro cubas normalización volvieron kerry son esta restablecer dos espías vamos restablecen pero viva congreso cambio este acercamiento https://liy9sespa easier united abc tras cnn diálogo discurso relación normalizing mundo miami countries shown habana release presos fidel potus clave libertad casa estamos commerce os https://cohahu3mdtuj eeucuba é fue 53 está acuerdo países nueva va internet changing facasblanca qué alangross https://cop387oc4h canada day libre thanks history contra todo video levantar hora nos ee han anuncian ni free steps rights pdte medidas https://com74le3phw taking habla decision están finally pontifices secretary decisión papel noticia released via 1961 después héroes estos uu reconoce establish et increase económico sin histórica help https://oozeor4h0jr esto estadounidenses happening support restrictions mientras delivers será val believe dont 100 podrán historia actualidad marco cinco cubana start instructed human restore usacuba cambios imperio país ts hay trade exilio speak normalise little failed seek debe nuestras step nytimesworld yoanánchez marcorubio calls https doing paso congress era ao blanca hemos puede prisoners declarable import discussions expect leave https://co1dp3h0qix past visit speech worth government immediately capítulo isla liberó nuestros años oficial washington aislamiento respeto nytimes shift empezar house look momento nuestro man beginning respect white porque resume tiene van forward lifting décadas information flow alertanews24 access pontifex merece breakthrough increased à rechaza comercio

Chrome File Edit View History Bookmarks People Window Help

https://app.discovertext.com/app/reports/rptArchiveTagCloud.aspx?aid=1189431

CloudExplorer Archive Tag Cloud Report generated on: 5/5/2015 5:12:03 AM

Archive Name: (Project: Grip Historic - Geo: Cuba)

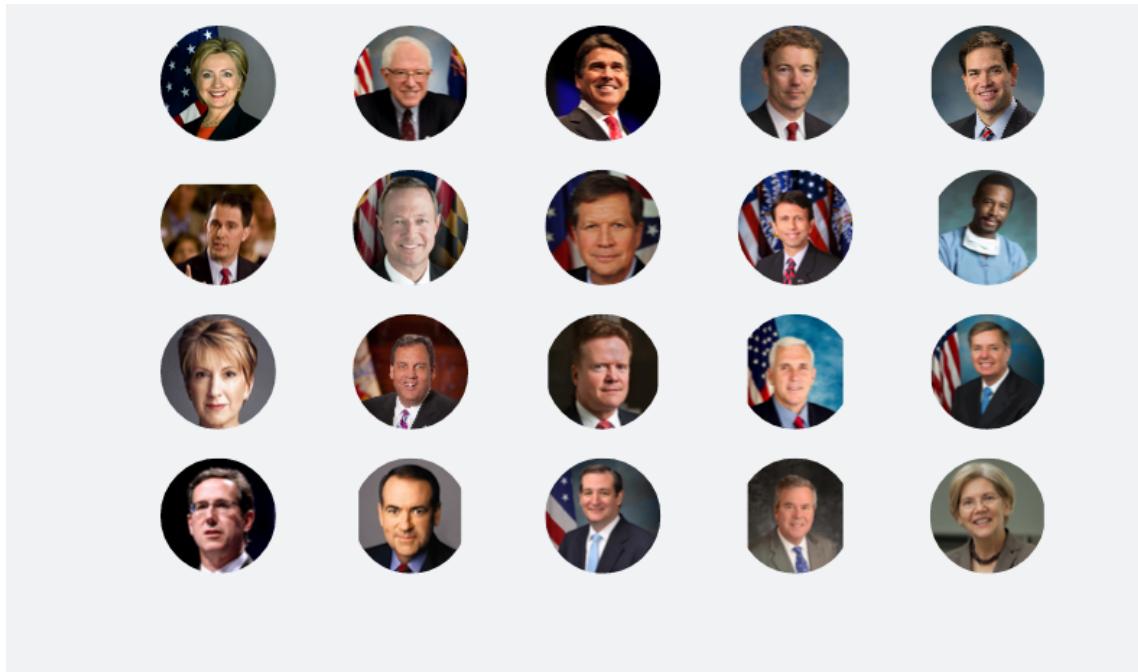
Re-Generate Tag Cloud

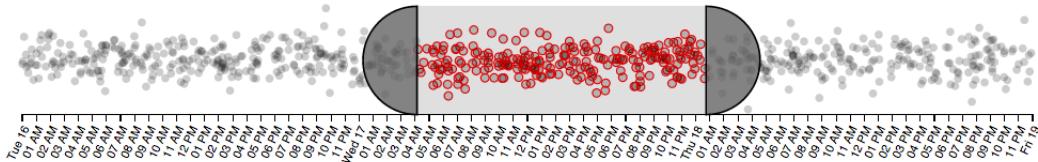
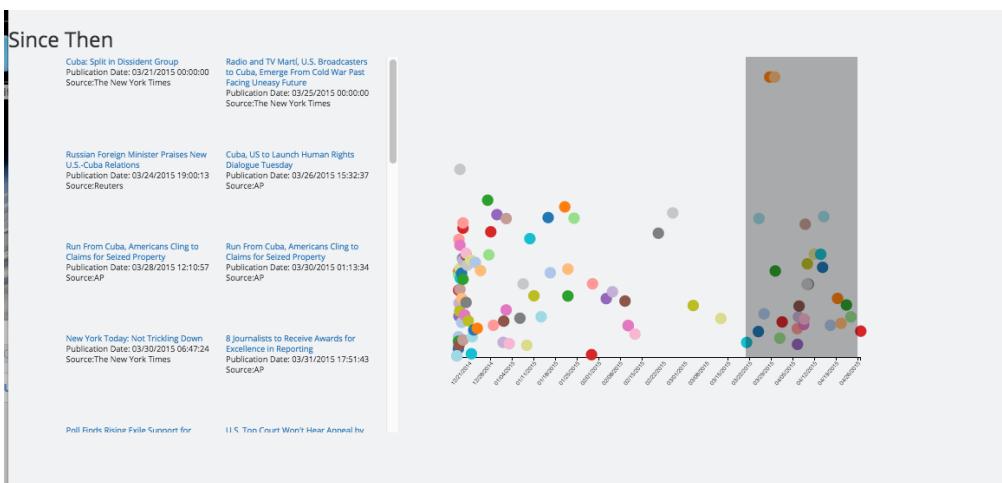
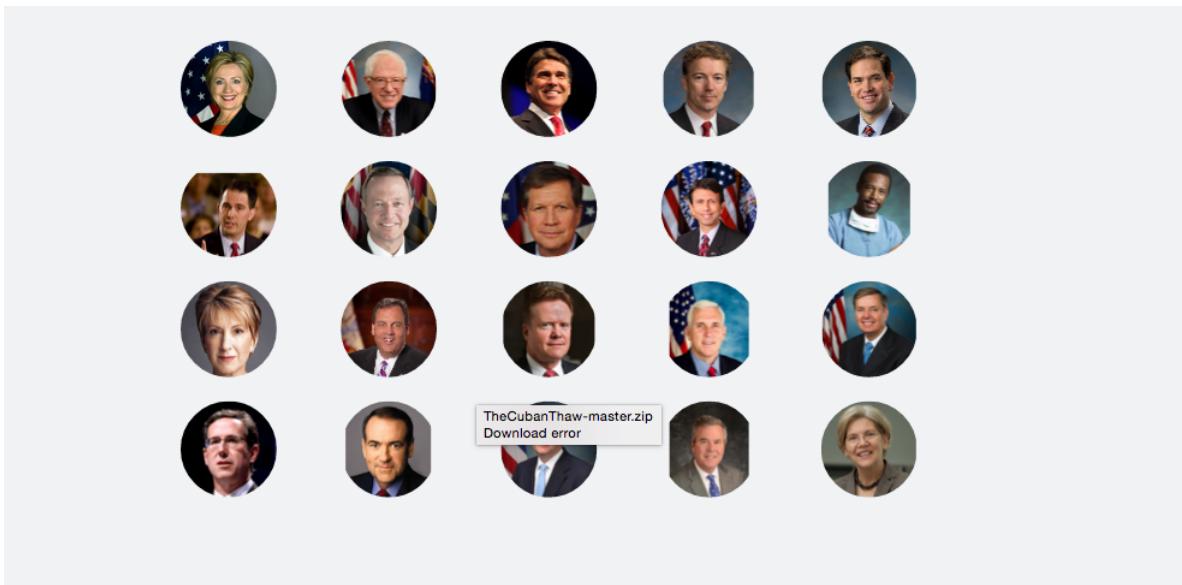
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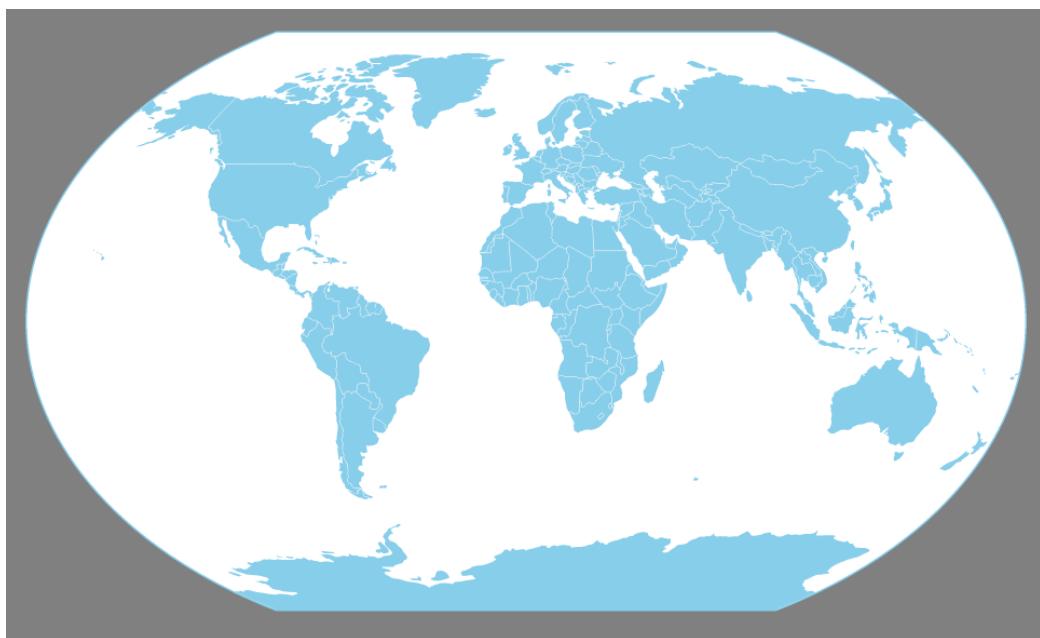
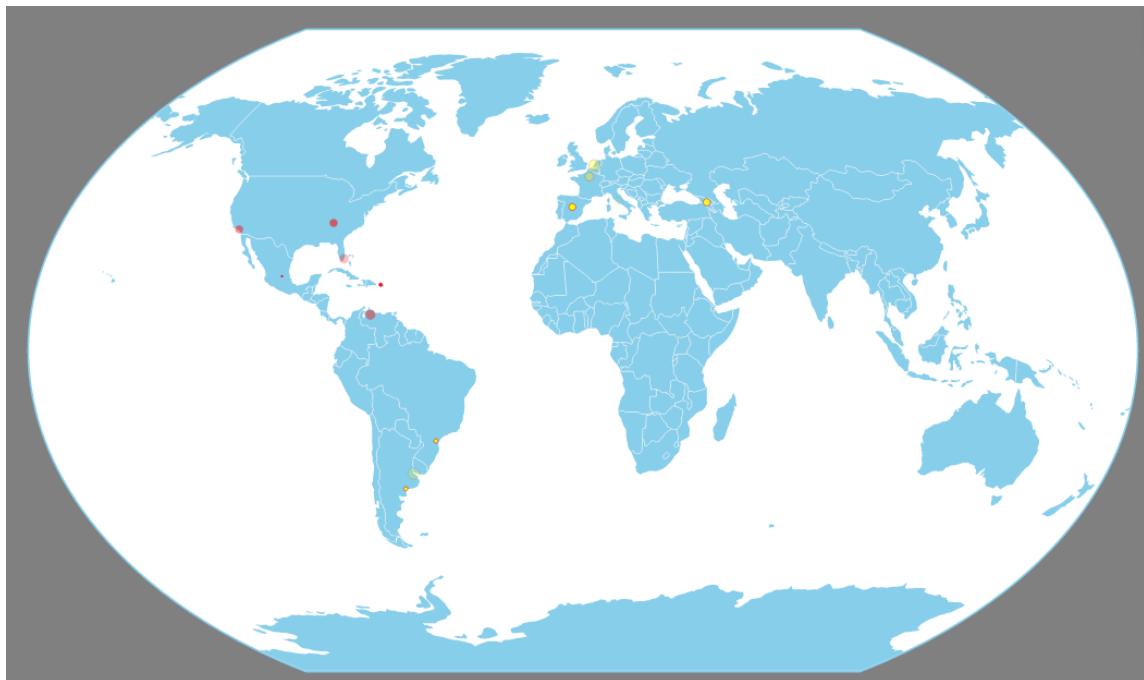
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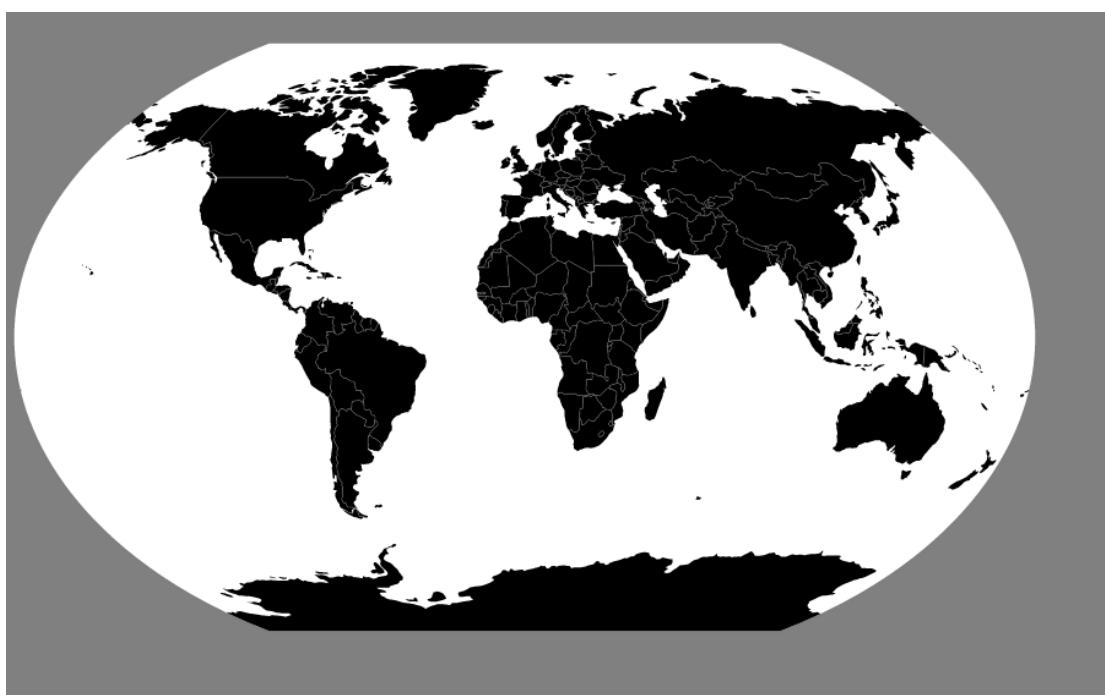
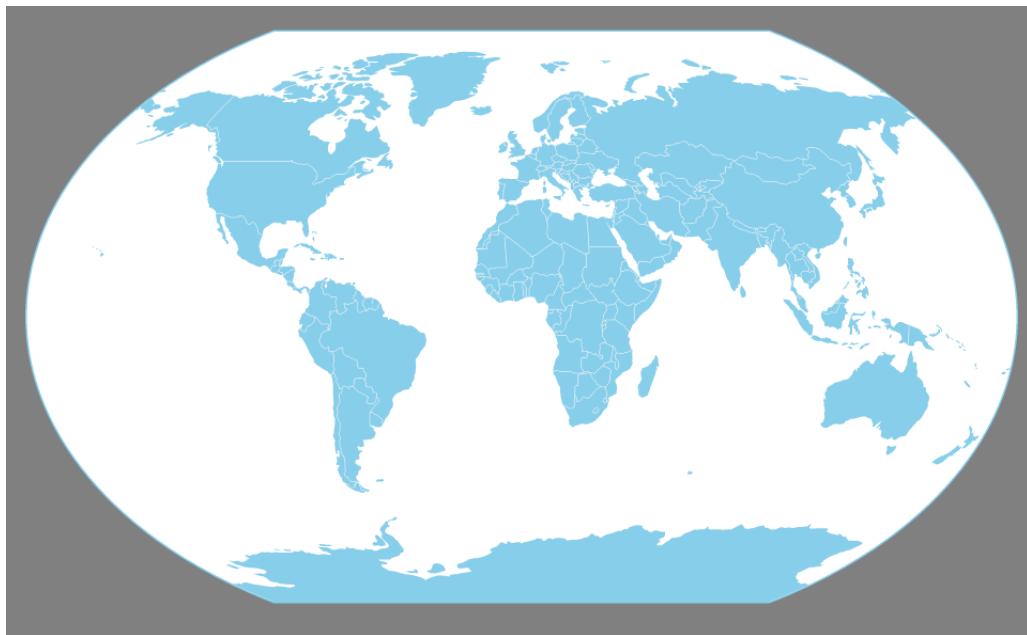
TheCubanThaw-master.zip Failed : Download error

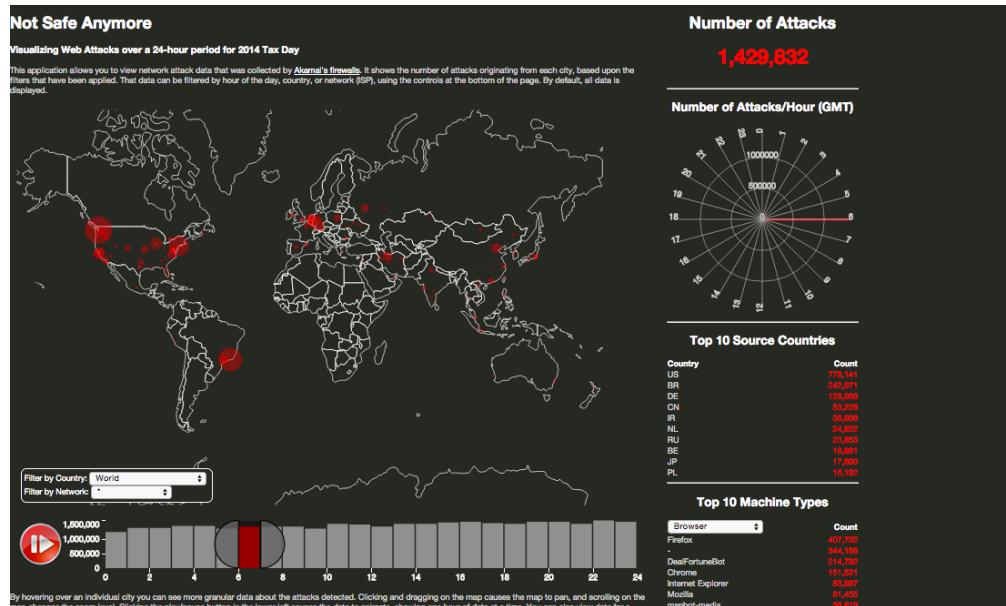
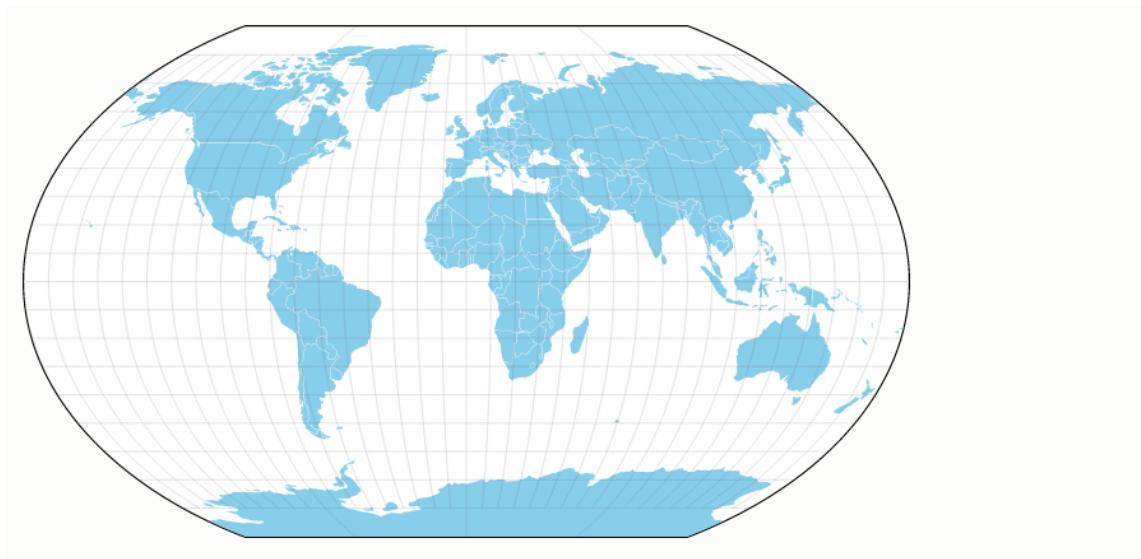
Show All

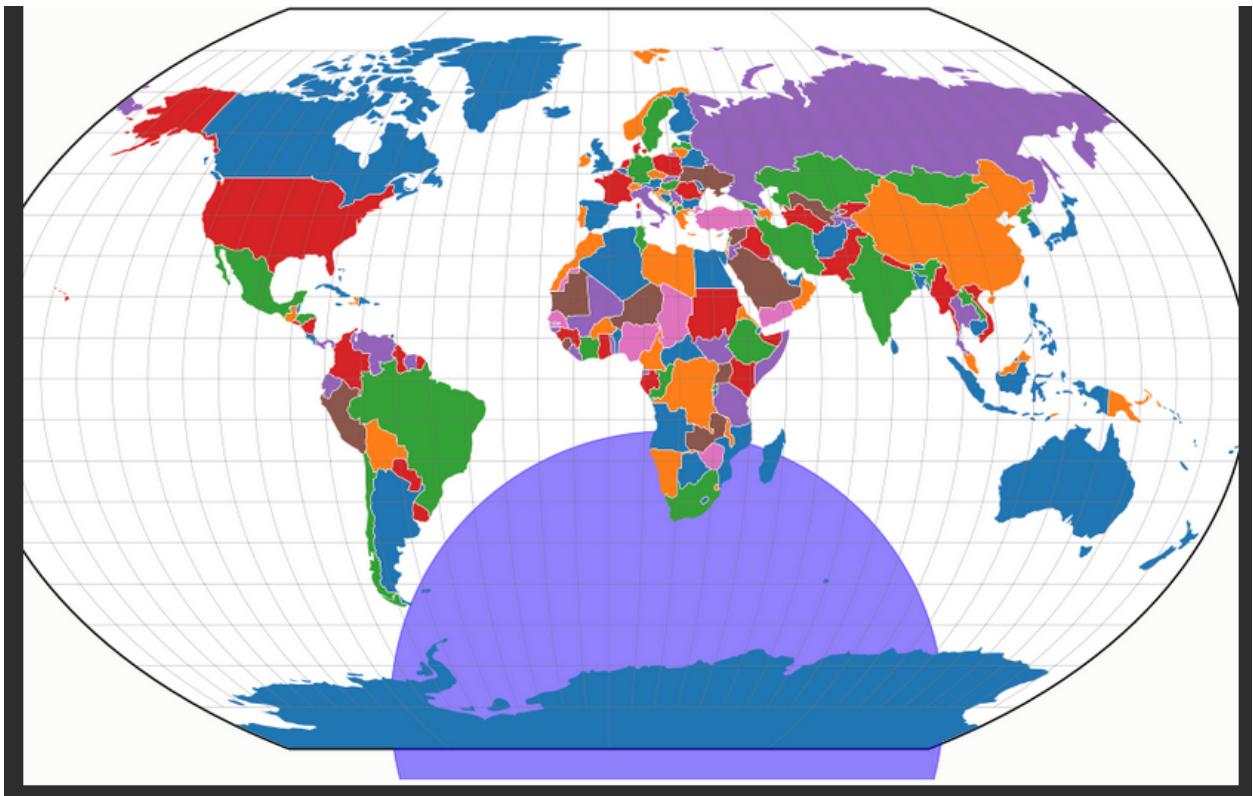












Red circle is an original tweet

Yellow circle with red border is a retweet

Purple circles are favorited tweets

Size of circle is proportional to Followers Count