

# TRUMP TWEETS

EECE 5642 - VISUALIZATION DEMO PROJECT

### THE TEAM

#### **DYLAN PINCUS**

COLLEGE OF ENGINEERING pincus.d@husky.neu.edu

#### KIMBERLY WHITNEY

college of Engineering whitney.k@husky.neu.edu

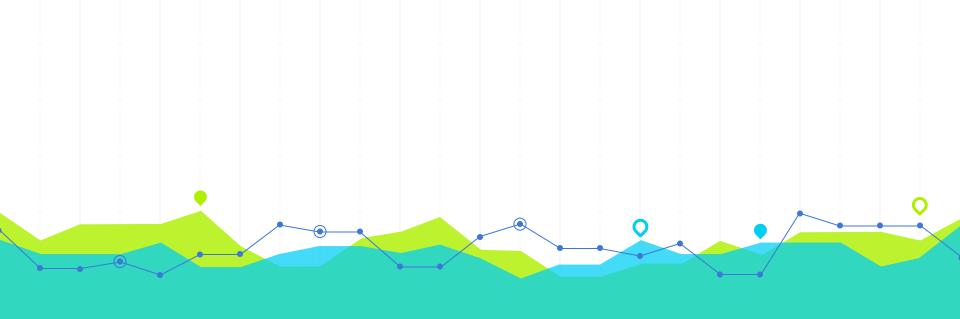
#### **OLIVER FISHSTEIN**

COLLEGE OF ENGINEERING fishstein.o@husky.neu.edu

#### **CAMPBELL ALDEN**

college of Engineering alden.ca@husky.neu.edu





### **MOTIVATION**

Why Donald Trump's Tweets?

66

Why would Kim Jong-un insult me by calling me "old," when I would NEVER call him "short and fat?" Oh well, I try so hard to be his friend - and maybe someday that will happen!

@realDonaldTrump, 11/11/2017

### **COMPARISONS TO PREVIOUS PRESIDENTS**

#### **PARKLAND - BARACK OBAMA**

"We are grieving with Parkland. But we are not powerless. Caring for our kids is our first job. And until we can honestly say that we're doing enough to keep them safe from harm, including long overdue, common-sense gun safety laws that most Americans want, then we have to change."

Compound: **0.0202** 

Negative: **18%** Neutral: **62.4%** 

Positive: **29.6%** 



#### PARKLAND - DONALD TRUMP

"My prayers and condolences to the families of the victims of the terrible Florida shooting. No child, teacher or anyone else should ever feel unsafe in an American school."

Compound: **-0.765** 

Negative: **22.6%** 

Neutral: **77.4**%

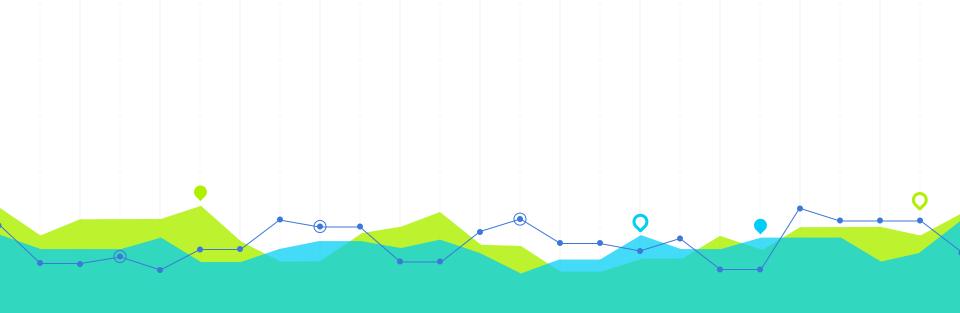
Positive: 0.0%





### TRUMP TWEETS AFFECTING THE WORLD

- His tweets against...
  - North Korea have ignited a response from Kim Jong Un
  - Parkland survivors have helped them speak out
  - Hillary possibly swayed the election
  - ..and many more
- Me contradicts himself (new tweets vs old)
- His sentiments sway how other world leaders view him



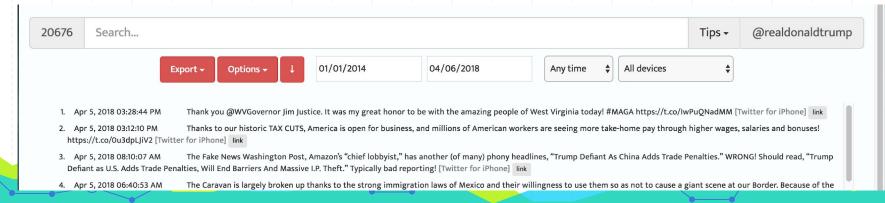
## **DATA ACQUISITION**

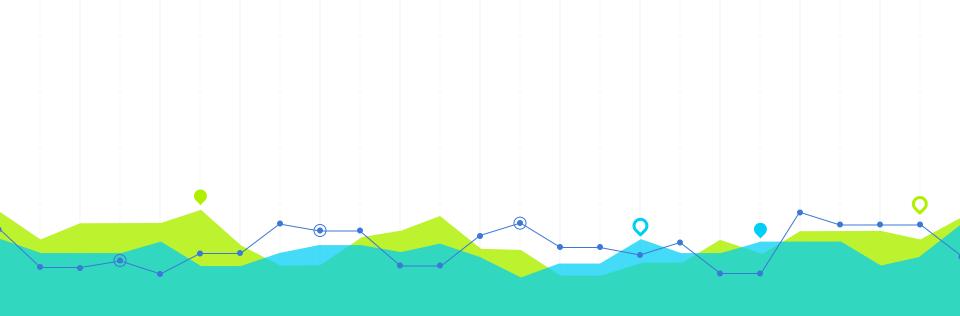
Why Donald Trump's Tweets?

2

### **DATA SOURCE**

- Dataset was provided by the <u>Trump Twitter Archive</u>.
- Selected Trump's tweets since 2014 in order to analyze his twitter activity as he came into the presidency and beyond.
- See if we can notice any trends regarding things he mentions, when he tweets, how he says things, etc.





### TWEET ANALYSIS

Data Processing.



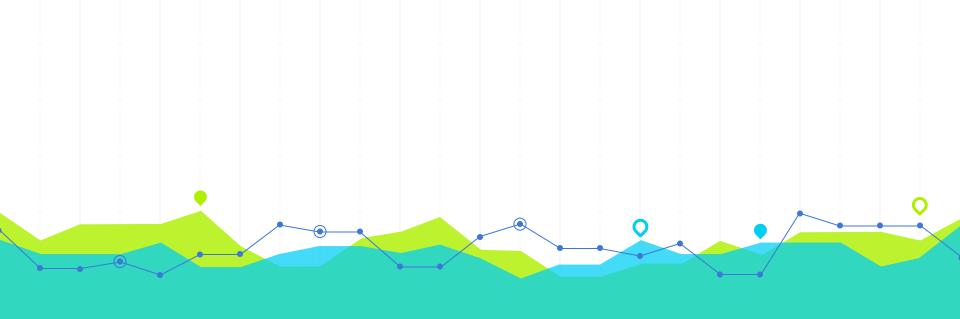
### **Tweet Analysis**

### **Analysis in Python:**

- Map tweet data into objects
- Analyze tweet text with Indico
- Compile and format results for visualizations

#### **Indico API:**

- Sentiment
- Places
- Organizations
- Twitter Engagement Score
- Political Leaning



### **VISUALIZATION TOOLS**

How we did the visualizations.

### TWEETS MENTIONING LOCATIONS

### **Python Libraries**

- GeoPy
  - Location data, coordinates, country codes, etc
- MatPlotLib/Basemap
  - World map
- Folium choropleth

### **Interactive Tools**

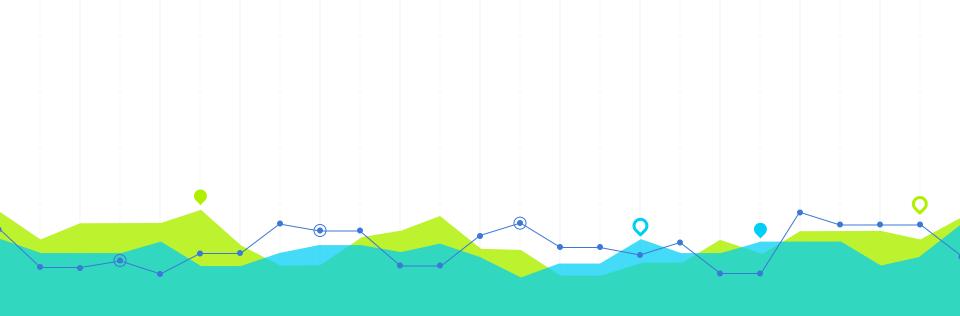
- SimpleMaps
  - JavaScript USMap library
- AMCharts World map
  - Uses "images" for places circles at mentioned locations

### TWEETS ANALYZED BY DATE AND TIME

- Tableau Public
  - Robust regex parsing of timestamps into DateTime objects
  - Allows for many correlation options from the DateTime object
    - Break out by exact date or compounded date info
  - Batch data processing of measures

### **Tweets by Words**

- Word Clouds created with WordArt.com
  - Tweets preprocessed
  - Mentions, links, and replies removed
- Words sized according to number of occurrences



### **DEMO/ VISUALIZATION RESULTS**

Trump's Tweets Over Time

5



https://sites.google.com/view/TrumpTweets

# THANKSI

Any questions?