1. Ideas

• using a bar graph to see which words are said the most in the tweet with Trump in reference to the topic

2. Word tree

3. Graph of avg. mood of the tweets over time

4. Word tree that's changing over time

5. Word Cloud that changes as you scrool ~~the~~ based on time.

6. Graph for the amount of posted tweets over time

7. Bar chart for the top sources of tweets (countries, state)

8. Map with plotted words - size - amount of this word usage in ~~that~~ the area

2. Filter

1. Word tree that changes over time as you scroll.

2. Graph for the mood of the tweets over time

3. Bar graph of most popular word over time and their popularity

4. Graph for amount of posted tweets over time

3. Categorize

Trees:
①

Other data representations:
②
③
④

4. Combine and Refine

Word tree combined with Graphs for different attributes that all show change over time as you scroll.
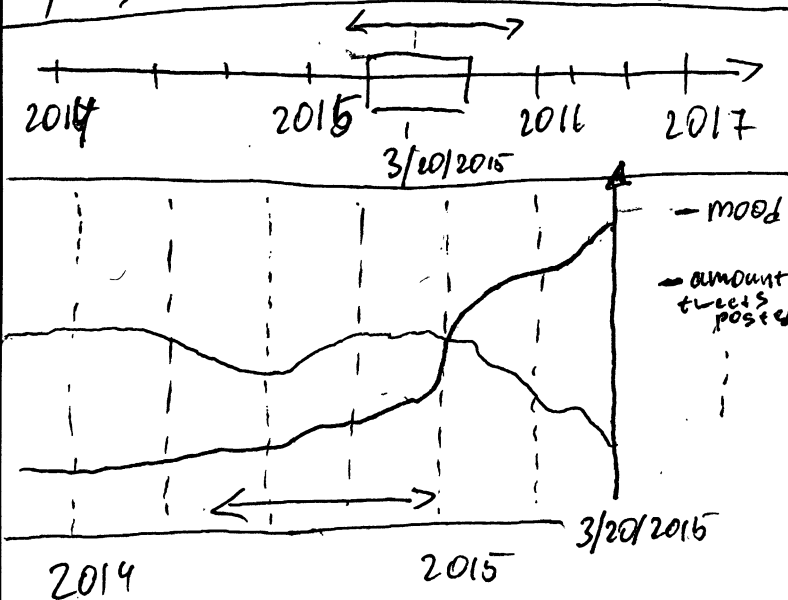
Attributes may be: mood, amount of posted tweets, word popularity and etc.

5. Question

Which words were mostly used over time by bots? Were they aimed to influence election?

Layout

> Donald ⌐
> for — Trump ⌐ will ⇐
> Why ⌐   is ⇐
>   on ⇐
>   campaign ⇐
>   to —

2014 ———— 2015 ———— 2016 ———— 2017

3/20/2015

— mood
— amount tweets posted

3/20/2015

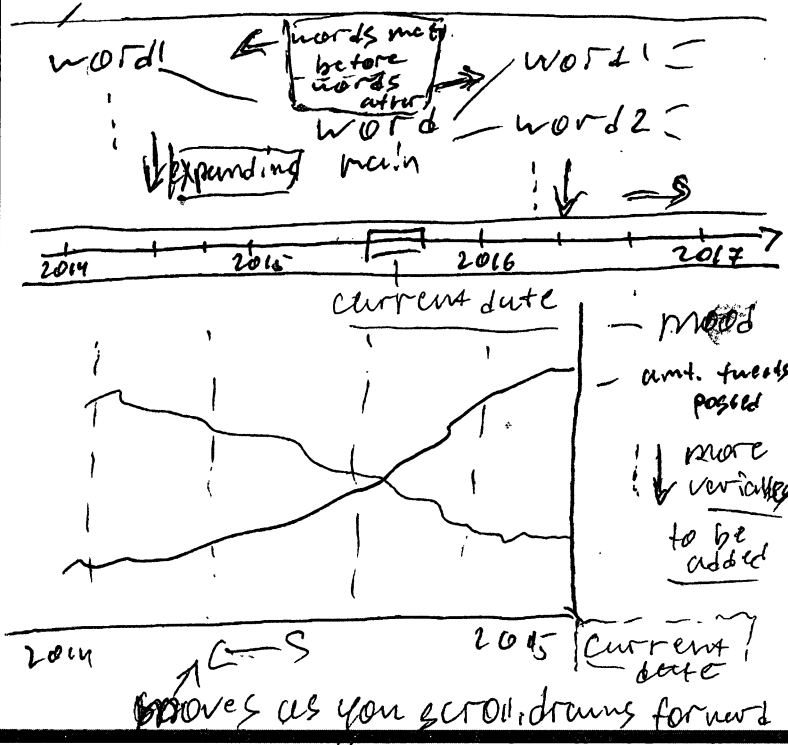2014 — 2015

Operations

- Scrolling time
- Graph with different variables that draws as you scroll time
- word tree that is changing for the current date as you scroll time
- variables for the graph will be plotted on a same axis with different colors.
- Graph shows approx. 1 year before the current date variables and a color mapping are on the right.

Focus word tree, changing over time

word1
words met before words after
word1
word
word2
main
expanding

2014 — 2015 — 2016 — 2017

current date

— mood
— amt. tweets posted
more variables to be added

2014 — 2015 — current date

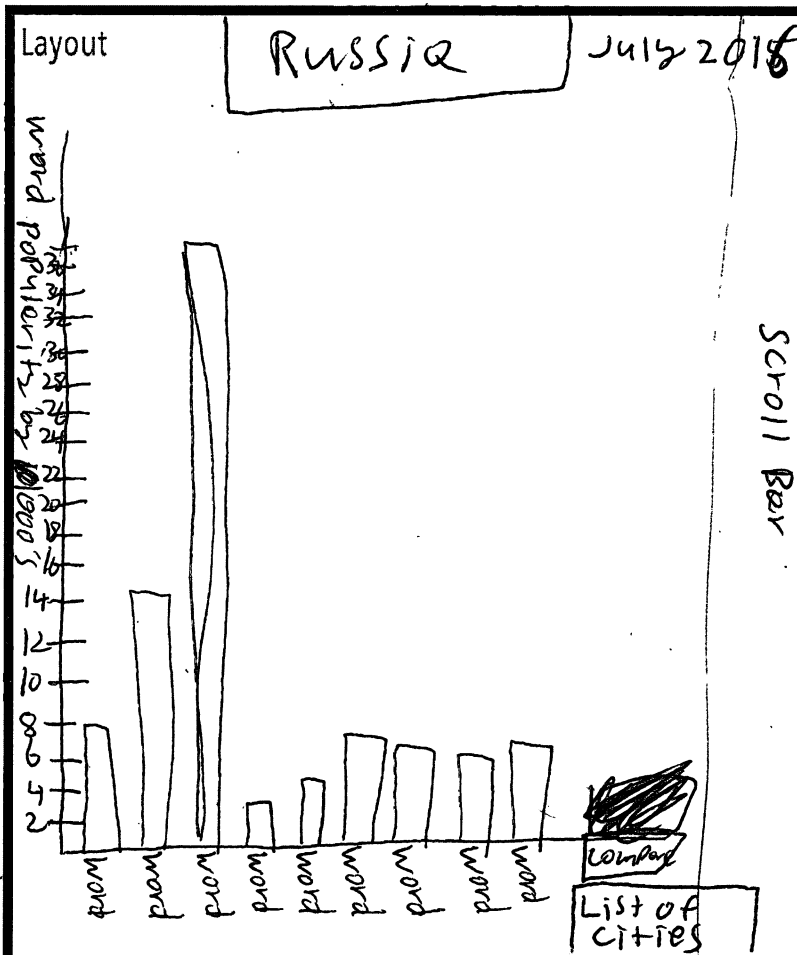moves as you scroll, draws forward

Discussion

The dataset will be parsed over time, there will be a graph and a word tree. As well as the scroller for time. As you move it, the word tree and a graph are changing based on a current date.
It allows to analyze the data set and see how it changes to an upcoming election.

Layout

Russia   July 2016

y-axis: word popularity (10,000's)

scale: 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

x-axis labels: word word word word word word word word word

Compare

List of cities

Scroll Bar

Title / Metadata

Title: Bar graph of biggest words over time in verious cities
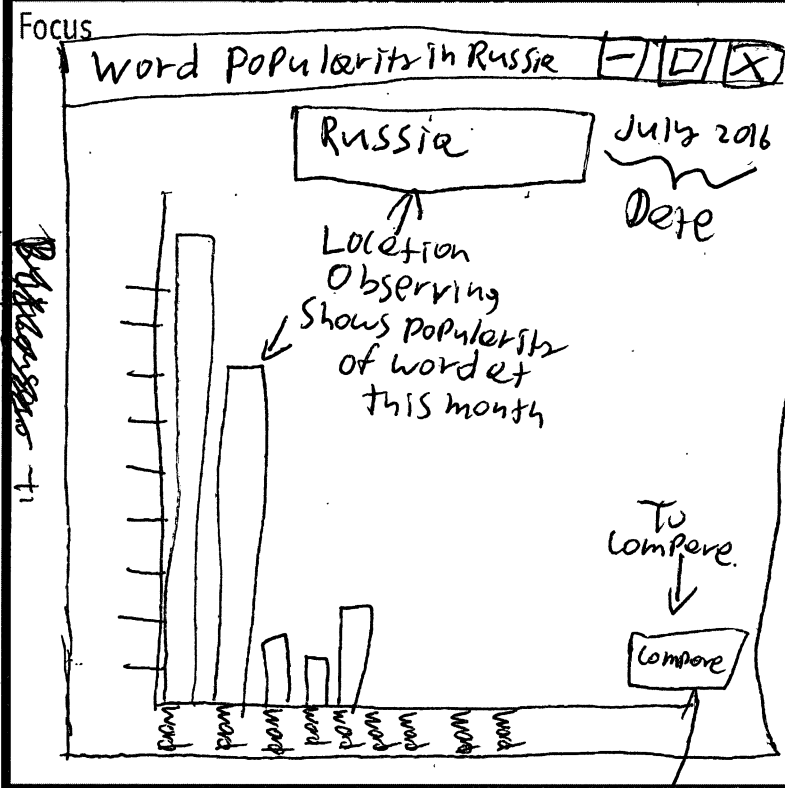
Auther: Anthony

Date: 3/5/19

Sheet: 3

Task:

Operations

- Look on a chart to see which words were used relevent to Trump's Presidency and what month/year was their popularity.
- Scroll bar to scroll over time.
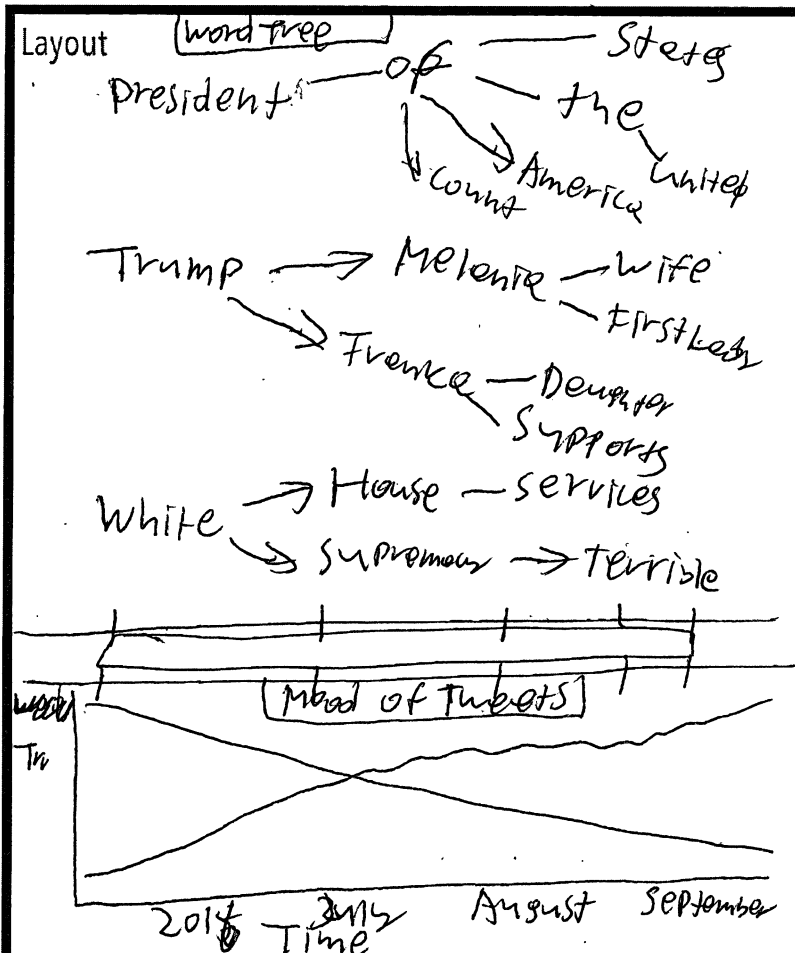- A city can be chosen to see popularity of a word within just the city.

Focus

Word Popularity in Russia   [-][□][X]

Russia   July 2016

↑ Location Observing Shows popularity of word at this month

Date

y-axis: word popularity

x-axis labels: word word word word word word word word

To Compare ↓

Compare

Discussion

◦ Positive

- Quick and easy to analzze
- It is a simple layout and shows over time
- Can look closer at cities

Negatives

- Maybe not best to use to compare over time
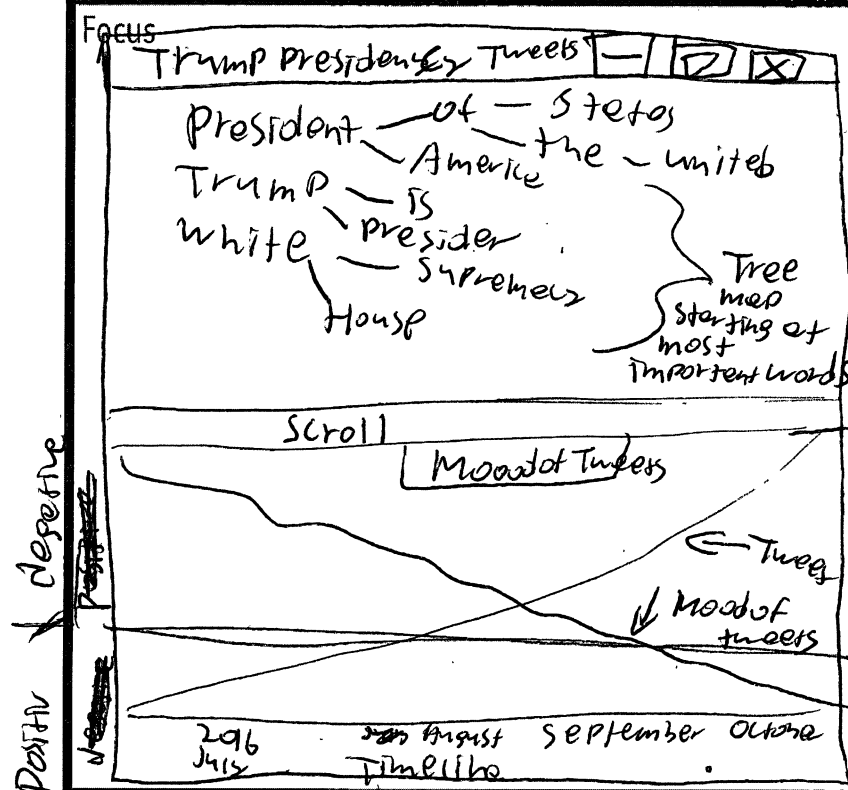- Too many words to fill onto one chart.

Allows to compare word popularity in cities.

Layout

(word tree)

President — of — States
the United
Count America

Trump → Melania — wife
First Lady
Franca — Daughter
Supports

White → House — services
→ Supremacy → Terrible

[Mood of Tweets]

2016 July August September
Time

Focus

Trump Presidency Tweets [—][▢][✕]

President — of — States
America the united
Trump — is
White — presider
— Supremecy
House

Tree map starting at most important words

Scroll
Mood of Tweets

← Tweets
↓ Mood of tweets

2016 July August September October
Timeline

negative / positive

Title: Word Tree map and mood graph of

Auther: Anthony Beron

Date: 3/5

Sheet: 4

Task:

Operations
- Word Tree on top displaying 5 most popular words related to Trumps Presidency along with a word tree up to 4 words
- A line graph at the bottom to show change in mood of tweets over time.

Discussion
Positive
- Displays data in 2 different interesting ways
- Shows over time, allowing good comperison.

- Might be tight to fit both well on a screen.