Individual Homework Week 9

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Online Studio 3 Group 3

Assigned topic : Text Visualization

Visualization 1: Shaped Word Clouds
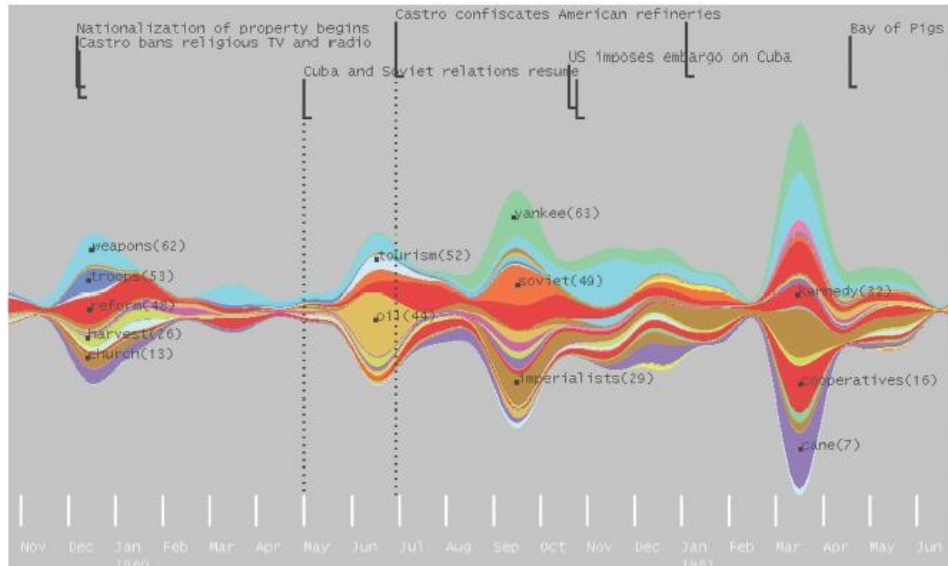
http://www.tagxedo.com/gallery.html

I think that shaping the word clouds into an image makes it more engaging. It could be useful in our project for displaying the words that appear frequently in the free text remarks and details property of each IED incident. We could create word clouds by regions or by IED incident type. We could also create a word cloud where the words are the cities and their size is proportional to the number of persons that were killed. Then we could compare them.

Visualization 2: Theme River

http://www.infovis-wiki.net/index.php?title=Teaching:TUW_-_UE_InfoVis_WS_2007/08_-_Gruppe_08_-_Aufgabe_1_-_Theme_River
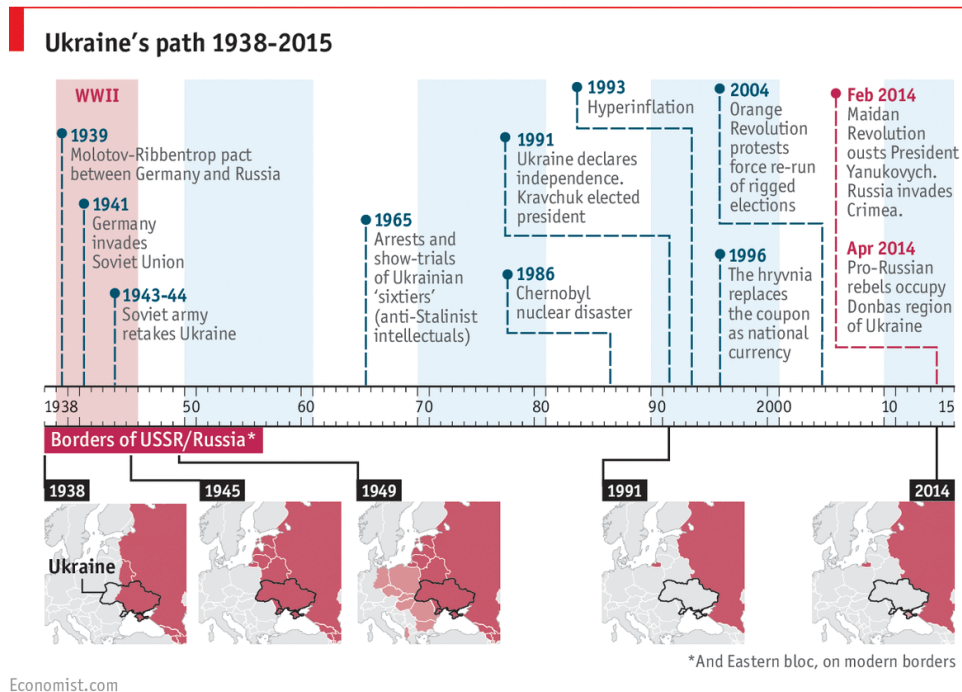
This visualization can show evolution over time. We could create Theme Rivers for each city where IED incidents happened and see how they grow or shrink over time. We could also try to find if we can extract common themes from the details and remarks free text fields.

Nationalization of property begins
Castro bans religious TV and radio
Castro confiscates American refineries
Cuba and Soviet relations resume
US imposes embargo on Cuba
Bay of Pigs
yankee(63)
weapons(62)
tourism(52)
troops(53)
soviet(49)
reform(48)
oil(44)
kennedy(32)
harvest(26)
church(13)
imperialists(29)
cooperatives(16)
cane(7)

Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
1960   1961

Visualization 3: Ukraine'S Path History

http://istantij.com/ukraines-path-1938-2015/

This visualization is directly related to our theme. It displays the historical path of Ukraine through textual information linked to a map and a timeline in order to describe the historical events of Ukraine between 1938 and 2015. For our project, it could be interesting to link our IED data to other political events that happened mostly in 2014-2015 if we can find the relevant data.

Ukraine's path 1938-2015

WWII

● 1939
Molotov-Ribbentrop pact between Germany and Russia

● 1941
Germany invades Soviet Union

● 1943-44
Soviet army retakes Ukraine

● 1965
Arrests and show-trials of Ukrainian 'sixtiers' (anti-Stalinist intellectuals)

● 1986
Chernobyl nuclear disaster

● 1991
Ukraine declares independence. Kravchuk elected president

● 1993
Hyperinflation

● 1996
The hryvnia replaces the coupon as national currency

● 2004
Orange Revolution protests force re-run of rigged elections

● Feb 2014
Maidan Revolution ousts President Yanukovych. Russia invades Crimea.

● Apr 2014
Pro-Russian rebels occupy Donbas region of Ukraine

1938   50   60   70   80   90   2000   10   15

Borders of USSR/Russia*

1938   1945   1949   1991   2014

Ukraine

*And Eastern bloc, on modern borders

Economist.com

Most established: Tooltips

http://www.infragistics.com/samples/wpf/geographic-map/map-tooltips
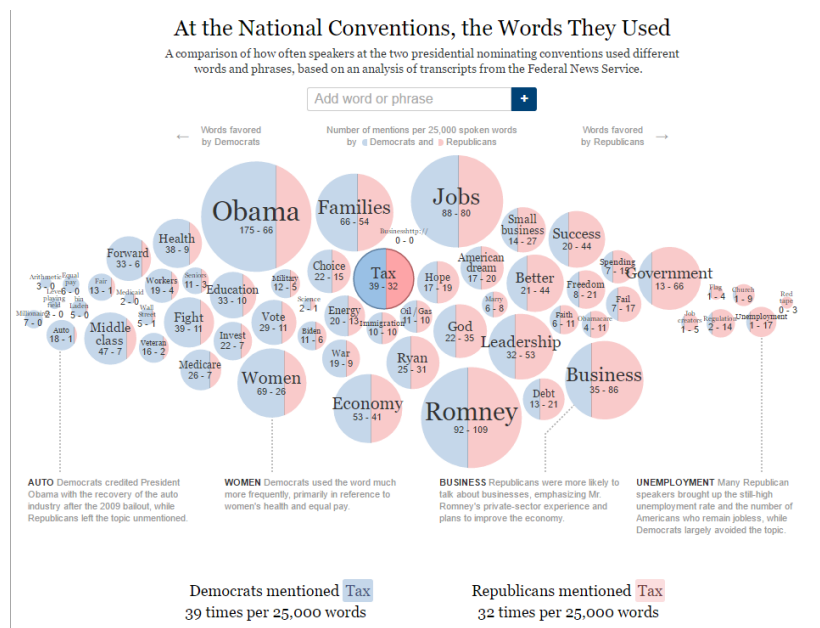
Simply showing the text information in a tooltip while hovering over an item on the map would be the simplest way to show IED incidents details over each incident symbol on the Ukraine map.

Creative and Effective: Split Bubbles

http://www.nytimes.com/interactive/2012/09/06/us/politics/convention-word-counts.html?_r=0#Tax

We could create a similar visualization where we select two different region of IED evet type and compare the use of words in the details and remarks free text properties of the IED incidents. This visualization is very effective for making comparisons.

My Favorite: Word Tree

http://blog.visual.ly/wp-content/uploads/2013/03/LoveMeDoWordTree.jpg

The word shows repeated patterns in the data. I would like to use it with categorical text data, by taking all the IED incidents that appear in a specific city and then show where the next incident happens. This is akin to a word tree in the sense that it follows a sequential order. This could help us see if there are serial patterns in the data.