

## **DATA VISUALIZATION- MAT259**

### **Correlation Assignment proposal**

**Concept-** Visualizing and correlating events in Ukraine. What really describes the the chaos happenings in Ukraine. The three data sets used here are New york times and Twitter and SPL. Further comparison from Twitter and NY times api is done with [seattle public library database](#).

One of the basic reasons for doing this information visualization is to provide a perspective on the underlying data related to the current 'war' in ukraine, its context, and interactively allow or engage a user in exploring various aspects of the data. Hence, the idea is to create a *text-cloud*. The idea is to depict pre- and post- president, Viktor F. Yanukovyc, fleeing Ukraine and giving power back to the people.

Ukraine is a divided country caught in an increasingly violent tug of war between its past and future. Its heading for a civil war and considered a 'revolution'. Ukraine have been in the news since the orange revolution back in 2004. Yet, though the Orange Revolution demonstrated that Ukrainians could reverse a stolen election by taking to the streets, a crucial precedent in a post-Soviet country, the victory did nothing to resolve Ukraine's larger economic problems, and in **2010**, Yanukovych won a legitimate victory as voters rushed toward a candidate who promised a more stable path forward. [Read more..](#)

Keyword searching included: war, ukraine, civil war, protest, Kiev, Russia, linkage, EU

### **Query-**

I have decided to query from 2010, since many people say the elections were fraud and invalid.

```
select title, year(cout), count(*), date(cout) from spl2.inraw where year(cout) >= 2010 and title like "%ukraine%" group by title;
```

*Processing Time: 44.23 sec*

```
select title, year(cout), count(*), date(cout) from spl2.inraw where year(cout) >= 2010 and title like "%kiev%" group by title;
```

*Processing Time: 43.93 sec*

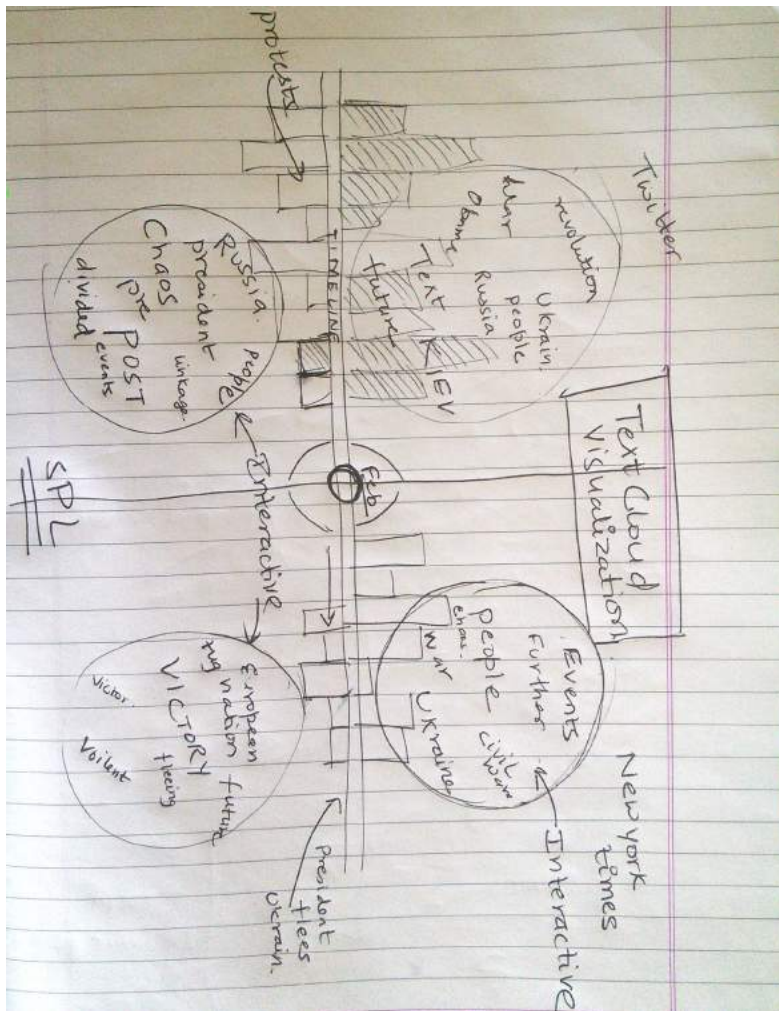
### **Method/Process-**

Interactive text cloud depiction of text and frequencies with user interaction to read the data, with

timeline in the middle. One of the basic reasons for doing this information visualization is to provide a perspective on the underlying data related to the current 'war' in Ukraine, its context, and interactively allow or engage a user in exploring various aspects of the data. That can be by mouse interaction/hovering over a word and getting more information in the same context like date, location, additional links, videos etc.

The process involves various kinds of text manipulation(surrounding boxes to avoid collision), filtering functional and stop words, Sorting(insertion sort), data mining, ordering the text in the right spatial manner, etc.

### Doodle-



Data- In the csv file attached.