Visualization of Twitter Trends using World Wind on Android

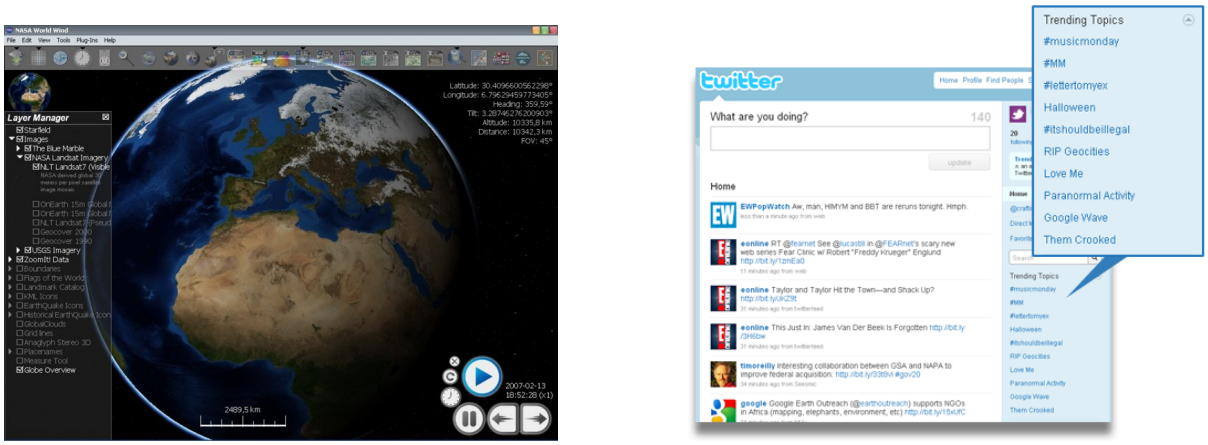
Description

In recent years, social media has been enormously growing with millons of people all over the world sharing information. Social networking sites like Twitter allows users to share content for others to follow. People can find public streams that they are interested in and follow the conversations.

Visualising Twitter data may help immediate assimilation and understanding of Twitter information, so that one can effectively extract information from the visual representations of abstract Twitter data.

The **aim of this project** is to develop an interactive system for visualizing Twitter trends by geographical reference on a virtual globe in real time on Android platform. World Wind [1] (Figure 1a) is an open source virtual globe developed by NASA. It provides a rich set of features for displaying and interacting with geographic data and representing a wide range of geometric objects. It can display high-resolution imagery, terrain and geographic information from any source.

In this project, non-spatial textual Twitter data combined with GIS (geographic information system) data will be integrated into World Wind. To extract Twitter trends, Twitter API [2] will be used. GIS data will be used for geographic information. Trends extracted from Twitter data (Figure 1b) with their geographic information extracted from GIS data will be displayed on World Wind.



(a) (b)

Figure 1: a) World Wind., b) Twitter Trends.

References

[1] Nasa World Wind, `http://worldwind.arc.nasa.gov/java/`.

[2] Twitter API, `https://dev.twitter.com/`.

Links

[1] A free GIS data, http://data.geocomm.com/.

[2] World Wind Demo Applications, http://goworldwind.org/demos/.

[3] World Wind Android SDK, http://goworldwind.org/android/.

[4] Android SDK, http://developer.android.com/sdk/index.html.