

Visualization of Facebook Data using VTK

Description

In recent years, social media has been enormously growing with millions of people all over the world sharing information. Social networking sites like Facebook allows users to connect people with friends and others who work, study and live around them.

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

The **aim of this project** is to develop an interactive system for visualizing Facebook data using Visualization Toolkit (VTK) [1]. VTK is an open-source, freely available software system for 3D computer graphics, image processing and visualization. VTK supports a wide variety of visualization algorithms including: scalar, vector, tensor, texture, and volumetric methods; and advanced modeling techniques such as: implicit modeling, polygon reduction, mesh smoothing, cutting, contouring, and Delaunay triangulation. VTK has an extensive information visualization framework, has a suite of 3D interaction widgets, supports parallel processing, and integrates with various databases on GUI toolkits such as Qt and Tk.

In this project, the visualization capabilities of VTK will be explored and Facebook data such as friends, groups, pages etc. of a user will be visualized. The Facebook data will be extracted in XML format using Facebook API [2]. Figure 1 shows an example of interactive visualization of a blog content using VTK.

References

- [1] Visualization Toolkit (VTK), <http://www.vtk.org/>.
- [2] Facebook API, <http://developers.facebook.com/>.

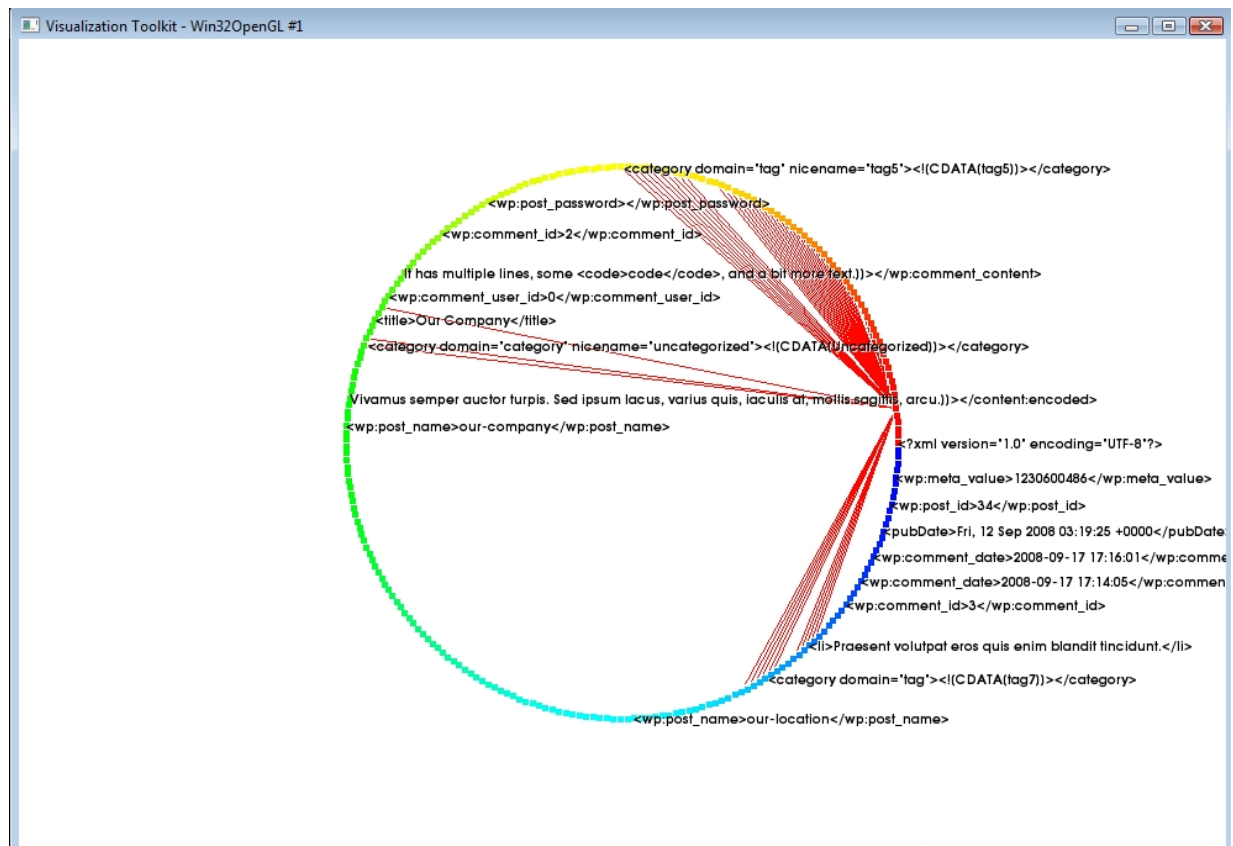


Figure 1: An interactive visualization of a blog content using VTK.