

Abstract

Graph implementation can be seen in several fields such as social network, transportation, biochemistry, and so on. Graph visualization connected the people to share the information through social media. Moreover, it reflects the track or path of certain place as node or point. If the data are too large, they will cause problem in graph visualization. The big appearance of the graph becomes obstacles for the user to read or even understand the data of graph visualization. Therefore, the effective and efficient visualization is needed. Treemap implementations in this thesis is the use of data directed graph with the social network dataset content wiki vote. In addition, the output is displayed in the form of 2D treemap visualization. This treemap implementations may also interact with the user to see the relationships between nodes. The results obtained from this study is that by using a directed graph of data, produce visualizations that it is appropriate or valid but the data show that more than datasets. Resulting visualization is not efficient because it uses more memory. Moreover treemap visualization effective only up to level 3 because the form of information presentation of clear data on the treemap. So for other nodes that are not clear form of presentation of data on the treemap be ineffective in reading data. Future research is expected to use visualization graphs with visual representations other than treemap and also uses a dynamic graph.

Keyword : *Directed graph, treemap, visualization*