## **Abstract**

Electronic news media information is the most popular and interactive today. So interactive, so its development is quite rapid. Shown to increase the number of corporate sites and personal sites, which means the increasing amount of information and data. This rapid increase was also driven by the growing use of the Internet compared to the previous era. As a result, the amount of information increases exponentially.

Number of existing data, should provide many benefits as well. Summarization is one of the most important filter information from a source or multiple source documents to create a compact version of the text. Currently, most methods like TextRank Summarization, PageRank, etc. rely on similarity calculation based on words and not consider other aspects, such as similarity phrase. In this final attempt to summarize a document with Document Index Graph method combined with the PageRank is a method to determine how important a vertex in the graph, based on information taken from the overall graph structure.

This method was tested using a sample of Indonesian language news from the web-based mass media. Selection of the appropriate threshold would improve the quality of summaries. Tests based on fmeasure prove that the resulting summary is pretty good.

Keywords: summarization, TextRank, PageRank, vertex, graph