

ABSTRACT

Batik is one of the biggest and best cultural heritage. One way to preserve batik is to explore new patterns. Batik patterns can be taken from objects, plants, and even animals. Therefore, in this study, the pattern that is used as batik is a pattern of pine plants in the Densiflora group.

Batik patterns are developed by using the L-System method. The L-System method is chosen because the method is widely used to modeling the plants or objects that have properties similar to plants which are elongated, branched and stop growing. In addition to using the L-system, the Random walk method is also used in the development of this batik patterns. Random walk is used to add stochastic elements to pine tree growth. Furthermore, the developed model was implemented into the web-based batik pattern application.

Keyword : L-Systems, WEB Application, Densiflora