

ABSTRACT

Batik as a real form of art with a historical background and a strong cultural element in the development of Indonesian culture became the basis of national identity to this day. Batik decorative variety is not just a picture that is taped, but able to give a feel of beauty. Efforts that can be done in maintaining the preservation of batik is to create a new pattern in batik one of them using coral reef motif's.

The application of coral reefs as a new pattern in batik is a method used to combine computer technology with the science of art. Various coral shapes and colors that exist in Indonesia to make coral is one of the right objects for batik motif at this time. The type of coral that will be focused to become a new batik motif in this final project is a type of Pavona Cactus.

In this final project is made an application development of web-based batik motif. by using l-system method in making this application, hence simplify making some new batik motif. The purpose of this final project is to develop Pavona Cactus coral motifs module on the application of web-based batik motif.

The result of this final project is creating a batik design with Pavona Cactus coral as the main motif. Coral model proposed and combined with batik pattern to look modern. Some tests have been done so that it can be concluded that this final project has been completed as the authors expect. With the completion of this design, it has created a batik design that has a coral shape as it's motive.

Keywords: *L-system, Batik, Coral, Web, Pavona Cactus*