

ABSTRACT

One of the cultural heritages owned by Indonesia is batik. Where we must preserve and cultivated by developing new pattern patterns for batik to develop in every next generation. And one of the patterns that will be used is coral reefs. In addition to the typical Indonesian batik, coral reefs are also one of the natural beauty that exists in Indonesia. With various types of corals in Indonesia.

In this research, we will design a model for application of web based batik motif development using L-Systems method in making the application. The purpose of this research is to make coral motif based on coral species Acropora Echinata. Batik design is made with a collection of mathematical operations created in the language pemogramn PHP where the results can be viewed from the web browser design.

In making the coral motif there are several mathematical operations and each operation has its own function. Each operation has a variable that has its own role in building design batik motif, in addition L-Systems is also used as a method of design development of this batik motif. The results of the test through the survey also showed that 83% said it was good in developing batik design and 17% stated quite good and need to be developed again in batik design

Keywords: Batik, Coral, Web, Acropora echinata