

## ABSTRACT

*Indonesia has a lot of cultural diversity and one of them is batik. Batik in Indonesia has different types of motifs. Currently batik motifs are often encountered is a natural motif and still no batik motifs that take elements from the marine Indonesia. Indonesia has a vast ocean and within it is a diverse coral variety. The type of coral that is observed to be used as batik motif is Montipora Foliosa. Beautiful coral that looks like a pile of plates and a threaded circle. By using the coral motif is expected to increase the diversity and preserve batik Indonesian cultural heritage.*

*This research focuses on the development of Montipora Foliosa coral motif into batik motif by using web-based Random Walk method. The Random Walk method uses random numbers to produce non-monotonic batik motifs and the final result design will be displayed on a web browser. The results of this study is the creation of new batik motifs that use the pattern of coral shape, especially Montipora Foliosa coral with web-based applications. The results of testing through general surveys and special surveys for the art educated showed excellent results, but for the future must be done in order to get better.*

**Keywords:** *random walk, web, batik, montipora foliosa, motive, coral*