

Abstract

The easiness of communication makes the exchange of information very quickly, many information media ranging from television, newspapers and the Internet are still use writing as a way to convey information. Yet, sometimes the information conveyed through is still imperfect because of some constraints such as a typing error, therefore it need a solution to check for word error.

The process of word correction consists of two steps. First, check the error word in which every word you typed will be checked, if the word is considered as not a part of real word it then mark the word as misspelled words. The next step is to find the correct words to replace the error word.

In this final assignment, a system was built to implement words corrector for the Indonesian language documents by using bi-grams and trigrams method, then the system would test the results of the corrected documents. Parameter of test results including execution time and number of words that can be corrected properly by using this system. Test resulting in near perfect accuracy if used with user interaction, a little below 45 percent in automated, but it can greatly improved accuracy resulting by an average of above 60 percent if used in automated with threshold enabled. As for n-gram methods used, bigram is resulting slightly higher accuracy than trigram, at the expense of longer response time than trigram. And for the average system response time, it take about 1 ~ 3 seconds to process every error word, so it quite responsive and can still be tolerated by the normal user.

Key words : *spell correction, spell checker, spell suggestion, bigram, trigram.*