

# *Laempel System for Intelligent Text Processing*

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## Overview

### The Laempel Name

Laempel (actually, Lämpel) is an upright and respected village teacher in a humorous story by the German poet and painter Wilhelm Busch (1832–1908). That story includes a rather explosive demonstration that smoking poses a serious health hazard and thus proves Busch to have been a visionary.

### Structure of the Laempel System

The *Laempel System* consists of two modules: the Spell Checking Module and the Syntax Checking Module.

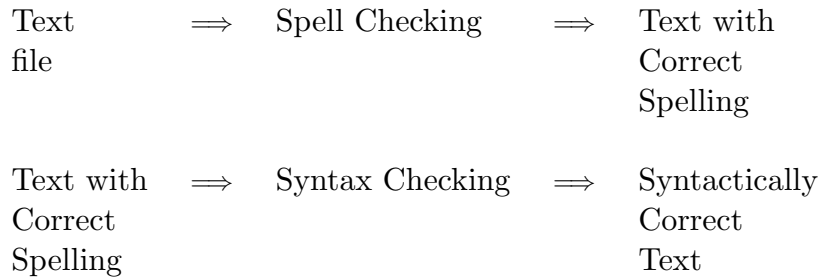
The Spell Checking Module takes as input the text file, identifies spelling and typing errors, and finds alternatives.

The Syntax Checking Module takes as input the text file with correct spelling and identifies syntactical errors.

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The entire process can be summarized as follows.



#### References:

Y. Zhao *Intelligent Text Processing*, PhD dissertation, University of Texas at Dallas, 1996.

Y. Zhao and K. Truemper “Effective Spell Checking by Learning User Behavior” *Applied Artificial Intelligence* 13 (1999) 725–742.