

Formal Languages and Automata Theory Term Project

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ABOUT PROJECT

This project has been an example of the “Context Free Grammar Parse Tree” application. The tree is drawn according to a predetermined rule based on the input. The project was done with the help of JavaScript and HTML languages and the library called “goJS”.

PROJECT STEPS

- The first function is the “generate” function according to the input.
- In the “generate” function, first check whether the input conforms to the grammar, and if not, give a warning.
- If the input corresponds to the grammar, the flow continues and the incoming input is sent to the “delta” function.
- Parts from the “delta” function are kept in an array named by “steps”.
- Then check that the input is compatible with the grammar and if it is approved, the tree-plotting process is started.
- The previously maintained "steps" sequence is entered as a parameter of the "init" function, and the tree draw operation occurs.

