



Automatic Java Code Generator for Regular Expressions and Finite Automata

Suejb Memeti

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Programming and resolving problems within automata theory is a complex process, which is time consuming and still the results may not be reliable (because of the great possibility to make mistakes while doing the required traversing steps). This project is an introduction of a tool that automatically generates Java Source Code for a given RE or Finite Automata, which significantly reduces complexity and increases productivity in a very short time. This is also a learning process tool, that can be used as a starting point to better understand the automata theory.

Regular Expression Code Generator tool provides support for auto generating Java code for programming and executing (deterministic) finite automata. It takes as input a regular expression and converts it into an equivalent nondeterministic and deterministic finite automata, then automatically generates Java Source Code with the implementation of the DFA for the given RE.

Regular Expression Code Generator is an interactive software for visualizing finite automata, and converting these automata in Java executable Source Code in a quick, fast and effective way.

It can be found very helpful tool within any course in Automata Theory or some Compiler courses. We intend Regular Expression Code Generator to be used by Students, Teachers and Programmers. For students it will be a good starting point to better understand RE, FA and how these FA are implemented in Java in different ways. For teachers it will be a perfect tool to check and correct student's assignments. Programmers could find it very useful to generate source code in a quick and fast way providing accessibility, performance, and improved programmer productivity while reducing time consumption.

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