

Left-Corner Parsing

(Topic 25: Parsing Techniques - Section 10.1)

Michal Bolješik, Martin Riša

{xbolje00,xrisam00}@stud.fit.vutbr.cz

Left-corner (LC) parsing is one of the methods of top-down non-canonical parsing. The presentation provides a basic difference between canonical and non-canonical parsing and then it is fully focused on left-corner parsing.

The main idea of LC parsing is described as well as a relation between left spines and the production chain automaton. The automaton by itself is non-deterministic, but an offered example shows us how to get a deterministic parser from it. An important fact from the stage of making such automaton is mentioned, too.

The chain automaton parser is then used to create so-called LC parsing table and an algorithm of how to analyze the LC parsing output to retrieve the parse tree is described. At the end of the presentation a conversion of the LC(1) parser into the LL(1) one is provided.