The Language CFG

BNF-converter

September 9, 2016

This document was automatically generated by the *BNF-Converter*. It was generated together with the lexer, the parser, and the abstract syntax module, which guarantees that the document matches with the implementation of the language (provided no hand-hacking has taken place).

The lexical structure of CFG

Identifiers

Identifiers $\langle Ident \rangle$ are unquoted strings beginning with a letter, followed by any combination of letters, digits, and the characters _ ', reserved words excluded.

Literals

Reserved words and symbols

The set of reserved words is the set of terminals appearing in the grammar. Those reserved words that consist of non-letter characters are called symbols, and they are treated in a different way from those that are similar to identifiers. The lexer follows rules familiar from languages like Haskell, C, and Java, including longest match and spacing conventions.

The reserved words used in CFG are the following:

е

The symbols used in CFG are the following:

Comments

Single-line comments begin with #.

There are no multiple-line comments in the grammar.

The syntactic structure of CFG

Non-terminals are enclosed between \langle and \rangle . The symbols ::= (production), | (union) and ϵ (empty rule) belong to the BNF notation. All other symbols are terminals.

```
\langle Grammar \rangle ::= \langle ListRule \rangle
\langle ListRule \rangle ::= \epsilon
                 |\langle Rule \rangle \setminus n \langle ListRule \rangle
\langle LHS \rangle ::= \langle Ident \rangle
\langle DRHS \rangle ::= \langle Ident \rangle
                   |\langle Ident \rangle + \langle Ident \rangle * \\ |\langle String \rangle
\langle RHS \rangle ::= \{ \langle ListDRHS \rangle \}
                            \langle Ident \rangle
                  \langle Ident \rangle + \langle Ident \rangle * \langle String \rangle
                            (\langle ListBRHS \rangle)
                             ( \langle ListBRHS \rangle ) +
                            ( \langle ListBRHS \rangle ) *
\langle BRHS \rangle ::= \langle Ident \rangle
                     | \langle Ident \rangle +
                     \langle Ident \rangle *
                              \langle String \rangle
\langle ListRHS \rangle ::= \epsilon
                         \langle RHS \rangle \langle ListRHS \rangle
\langle ListBRHS \rangle ::= \epsilon
                        | \langle BRHS \rangle \langle ListBRHS \rangle
```

```
 \begin{array}{ccc} \langle ListDRHS \rangle & ::= & \epsilon \\ & | & \langle DRHS \rangle \\ & | & \langle DRHS \rangle \mid \langle ListDRHS \rangle \end{array}
```