Languages-beta: SL-Disambiguation

The PLanCompS Project

Languages-beta/SL/SL-Disambiguation/SL-Disambiguation.cbs*

Language"SL"

A Disambiguation

Specification of disambiguation for parsing currently requires direct use of the corresponding SDF3 notation in comments, along with embedded productions in CBS notation. The well-formedness of the SDF3 notation is not checked. A future version of CBS is to include appropriate constructs for specifying disambiguation.

Syntax SDF

context-free syntax

```
expr ::= expr + expr {left}
expr ::= expr / expr {left}
expr ::= expr * expr {left}
expr ::= expr - expr {left}
expr ::= expr - expr {left}
expr ::= expr == expr {non-assoc}
expr ::= expr <= expr {non-assoc}
expr ::= expr < expr {non-assoc}
expr ::= expr != expr {non-assoc}
expr ::= expr >= expr {non-assoc}
expr ::= expr > expr {non-assoc}
expr ::= expr > expr {non-assoc}
expr ::= expr && expr {left}
expr ::= expr &/ {left}
expr ::= id = expr {right}
expr ::= expr . id = expr {right}
```

context-free priorities

^{*}Suggestions for improvement: plancomps@gmail.com. Issues: https://github.com/plancomps/CBS-beta/issues.

```
{left:
      expr ::= expr . id ( expr-list? )
      }
      >
      {right:
      expr ::= ! expr
      }
      >
      {left:
     expr ::= expr * expr
      expr ::= expr && expr
      }
      >
      \{ non-assoc:
      expr ::= expr == expr
     expr ::= expr <= expr
      expr ::= expr < expr
      expr ::= expr != expr
      expr ::= expr >= expr
      expr ::= expr > expr
      }
      >
      {left:
     expr ::= expr + expr
     expr ::= expr - expr
      expr ::= expr || expr
      }
      >
      {right:
      expr ::= id = expr
     expr ::= expr . id = expr
      }
Lexis SDF
     lexical syntax
     id = "function" {reject}
     id = "true" {reject}
id = "false" {reject}
     id = "return" {reject}
     id = "break" {reject}
     id = "continue" {reject}
     id = "while" {reject}
     id = "if" {reject}
     id = "else" {reject}
```

```
lexical restrictions

// Ensure greedy matching for lexicals

nat -/- [0-9]

id -/- [a-zA-Z0-9_]
```