

Languages-beta: SL-1-Lexemes *

The PPlanCompS Project

SL-1-Lexemes.cbs | PLAIN | PRETTY

OUTLINE

1 Lexemes

Identifiers
Numerals
Strings

Language "SL"

1 Lexemes

Identifiers

Lexis $Id : id ::= ('a' - 'z' \mid 'A' - 'Z') ('a' - 'z' \mid 'A' - 'Z' \mid '0' - '9')^*$

Semantics $id \llbracket Id : id \rrbracket : \Rightarrow ids$

Rule $id \llbracket Id \rrbracket = "Id"$

Numerals

Syntax $Int : int ::= '-'? _nat$

Lexis $Nat : nat ::= ('0' - '9')^+$

Semantics $int-val \llbracket Int : int \rrbracket : \Rightarrow integers$

Rule $int-val \llbracket '-' Nat \rrbracket = integer-negate \ int-val \llbracket Nat \rrbracket$

Rule $int-val \llbracket Nat \rrbracket = decimal-natural \ "Nat"$

Strings

Syntax $String : string ::= '"' _string-chars_ '"'$

Lexis $StringChars : string-chars ::= string-char^*$

$string-char ::= \sim (' ' \mid '\backslash n')$

Semantics $string-val \llbracket String : string \rrbracket : \Rightarrow strings$

Rule $string-val \llbracket '"' StringChars '"' \rrbracket = "StringChars"$

*Suggestions for improvement: plancomps@gmail.com.
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.