Languages-beta: SIMPLE-1-Lexical *

The PLanCompS Project

SIMPLE-1-Lexical.cbs | PLAIN | PRETTY

OUTLINE

1 Lexical Syntax

- 1.1 Booleans
- **1.2** Integers
- 1.3 Strings
- 1.4 Identifiers

Language "SIMPLE"

1 Lexical Syntax

```
Syntax \quad V : value ::= bool | int | string \\ bool ::= 'false' | 'true' \\ Lexis \quad Z : int ::= ('0'-'9')^+ \\ Syntax \quad string ::= '"'\_string-chars\_'"' \\ Lexis \quad S : string-chars ::= ( \sim '"')^* \\ Semantics \quad val \llbracket \_ : value \rrbracket : \Rightarrow values
```

1.1 Booleans

```
Rule val[ 'false' ] = false
Rule val[ 'true' ] = true
```

1.2 Integers

Rule
$$val[Z] = decimal-natural("Z")$$

1.3 Strings

Rule
$$val["" S""] = "S"$$

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

1.4 Identifiers