Languages-beta: SIMPLE-1-Lexical *

The PLanCompS Project

SIMPLE-1-Lexical.cbs | PLAIN | PRETTY

OUTLINE

1 Lexical Syntax

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- **1.2** Integers
- 1.3 Strings
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Language "SIMPLE"

1 Lexical Syntax

```
Syntax \quad V : value \ ::= \quad bool \mid int \mid string \\ bool \ ::= \quad 'false' \mid 'true' \\ Lexis \quad Z : int \ ::= \quad ('0'-'9')^+ \\ Syntax \quad string \ ::= \quad '"'\_string-chars\_'"' \\ Lexis \quad S : string-chars \ ::= \quad (\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