# Unstable-Languages-beta: SIMPLE-THR-1-Lexical \*

### The PLanCompS Project

SIMPLE-THR-1-Lexical.cbs | PLAIN | PRETTY

#### **OUTLINE**

#### 1 Lexical Syntax

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

Language "SIMPLE-THR"

# 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 [ \_ : value ] : \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 
$$val["" S""] = "S"$$

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

## 1.4 Identifiers