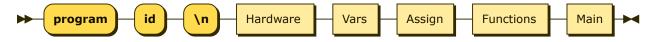
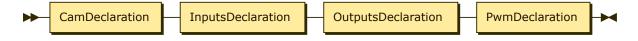
Program:



Program ::= 'program' 'id' '\n' Hardware Vars Assign Functions Main

no references

Hardware:

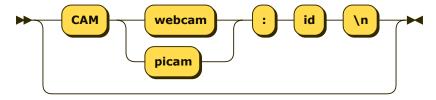


 $\label{prop:lambda} \textit{Hardware} ::= \textbf{CamDeclaration InputsDeclaration OutputsDeclaration PwmDeclaration}$

referenced by:

• <u>Program</u>

CamDeclaration:



referenced by:

• <u>Hardware</u>

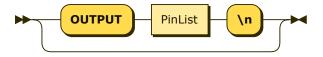
InputsDeclaration:



referenced by:

• <u>Hardware</u>

OutputsDeclaration:



```
OutputsDeclaration
   ::= ( 'OUTPUT' PinList '\n' )?
```

referenced by:

• <u>Hardware</u>

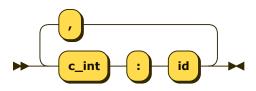
PwmDeclaration:



referenced by:

• Hardware

PinList:



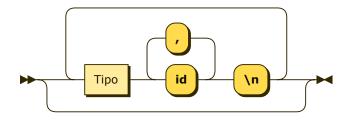
```
PinList ::= 'c_int' ':' 'id' ( ',' 'c_int' ':' 'id' )*
```

referenced by:

- <u>InputsDeclaration</u>
- OutputsDeclaration
- <u>PwmDeclaration</u>

Vars:

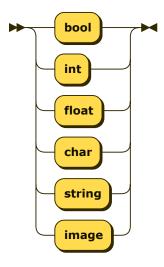
2 of 9



referenced by:

• <u>Program</u>

Tipo:

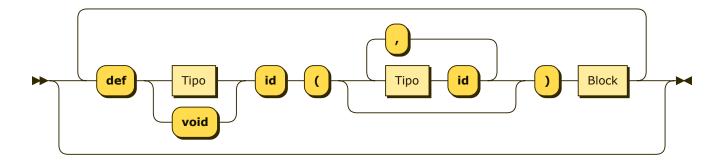


Tipo ::= 'bool' | 'int' | 'float' | 'char' | 'string' | 'image'

referenced by:

- Functions
- Main
- Vars

Functions:

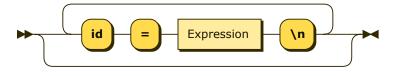


Functions

referenced by:

• Program

Assign:

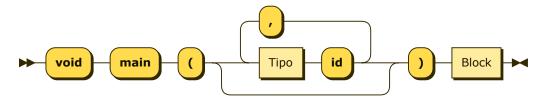


Assign $::= ('id' '=' Expression '\n')*$

referenced by:

- <u>Program</u>
- Statement

Main:

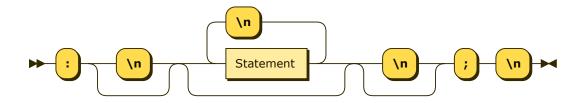


Main ::= 'void' 'main' '(' (Tipo 'id' (',' Tipo 'id')*)? ')' Block

referenced by:

• <u>Program</u>

Block:

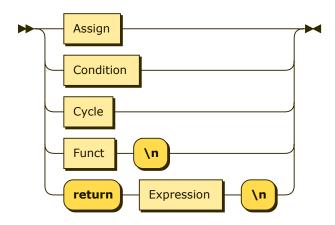


Block ::= ':' '\n'? (Statement ('\n' Statement)*)? '\n'? ';' '\n'

referenced by:

- Condition
- Cycle
- Functions
- Main

Statement:



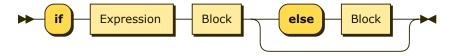
Statement

```
::= Assign
| Condition
| Cycle
| Funct '\n'
| 'return' Expression '\n'
```

referenced by:

• Block

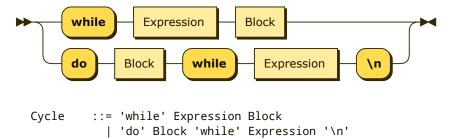
Condition:



referenced by:

• Statement

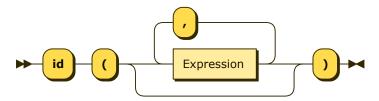
Cycle:



referenced by:

• Statement

Funct:

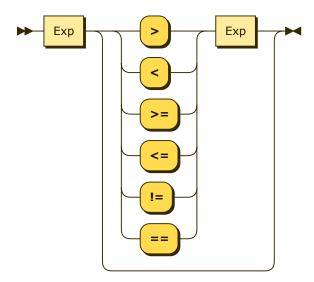


Funct ::= 'id' '(' (Expression (',' Expression)*)? ')'

referenced by:

- <u>Factor</u>
- <u>Statement</u>

Expression:

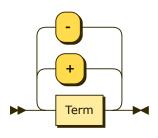


Expression

referenced by:

- Assign
- <u>Condition</u>
- Cycle
- Factor
- Funct
- <u>Statement</u>

Exp:

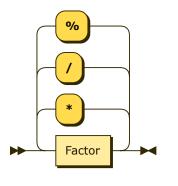


Exp ::= Term (('+' | '-') Term)*

referenced by:

• Expression

Term:

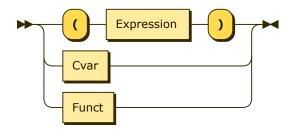


Term ::= Factor (('*' | '/' | '%') Factor)*

referenced by:

• <u>Exp</u>

Factor:

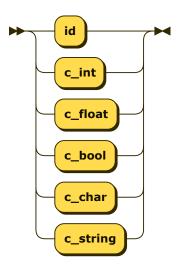


Factor ::= '(' Expression ')' | Cvar | Funct

referenced by:

• <u>Term</u>

Cvar:



referenced by:

• <u>Factor</u>

... generated by Railroad Diagram Generator

