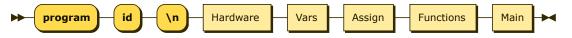
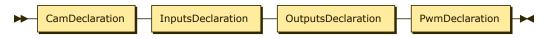
Program:



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

no references

Hardware:

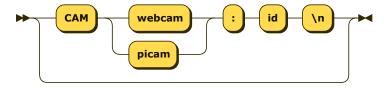


Hardware ::= CamDeclaration InputsDeclaration OutputsDeclaration PwmDeclaration

referenced by:

• <u>Program</u>

CamDeclaration:



referenced by:

• <u>Hardware</u>

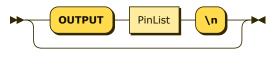
InputsDeclaration:



referenced by:

• Hardware

OutputsDeclaration:



referenced by:

• <u>Hardware</u>

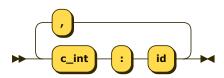
PwmDeclaration:



referenced by:

• <u>Hardware</u>

PinList:

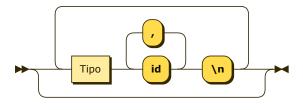


PinList ::= 'c_int' ':' 'id' (',' 'c_int' ':' 'id')*

referenced by:

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

Vars:

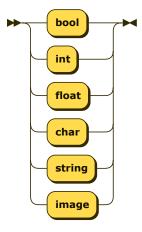


Vars ::= (Tipo 'id' (',' 'id')* '\n')*

 $referenced\ by:$

• <u>Program</u>

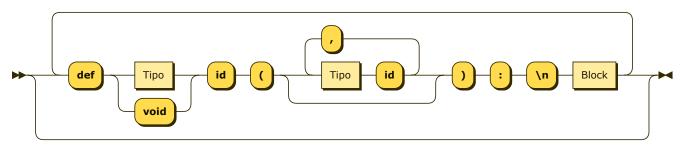
Tipo:



referenced by:

- Functions
- <u>Main</u>
- <u>Vars</u>

Functions:

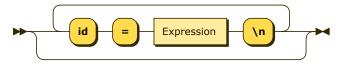


```
Functions
::= ( 'def' ( Tipo | 'void' ) 'id' '(' ( Tipo 'id' ( ',' Tipo 'id' )* )? ')' ':' '\n' Block )*
```

referenced by:

• <u>Program</u>

Assign:

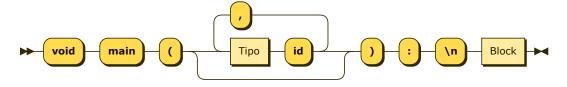


```
Assign ::= ( 'id' '=' Expression '\n' )*
```

referenced by:

- Program Statement

Main:

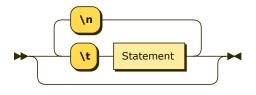


```
::= 'void' 'main' '(' ( Tipo 'id' ( ',' Tipo 'id' )* )? ')' ':' '\n' Block
Main
```

referenced by:

• <u>Program</u>

Block:

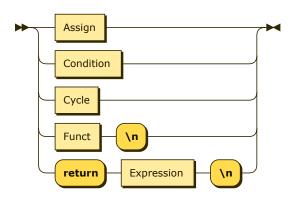


```
::= ( '\t' Statement ( '\n' '\t' Statement )* )?
Block
```

referenced by:

- Condition
- Cycle
- Functions
- Main

Statement:



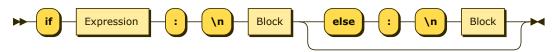
Statement

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

referenced by:

• Block

Condition:



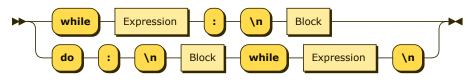
 ${\tt Condition}$

```
::= 'if' Expression ':' '\n' Block ( 'else' ':' '\n' Block )?
```

referenced by:

• Statement

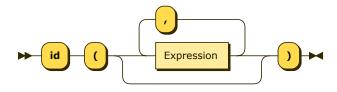
Cycle:



referenced by:

• Statement

Funct:

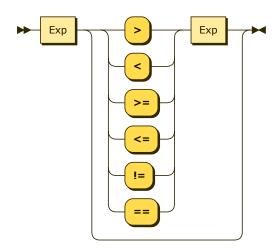


Funct ::= 'id' '(' (Expression (',' Expression)*)? ')'

referenced by:

- Factor
- Statement

Expression:

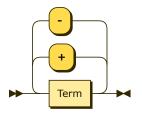


${\tt Expression}$

referenced by:

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

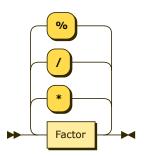
Exp:



referenced by:

• Expression

Term:

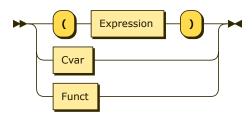


```
::= Factor ( ( '*' | '/' | '%' ) Factor )*
Term
```

referenced by:

Exp

Factor:

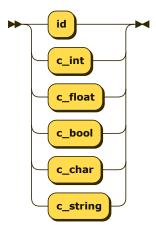


```
::= '(' Expression ')'
Factor
         | Cvar
          Funct
```

referenced by:

• <u>Term</u>

Cvar:



```
::= 'id'
Cvar
           | 'c_int'
            'c_float'
           | 'c_bool'
           | 'c_char'
           c_string'
```

referenced by:

• Factor

... generated by Railroad Diagram Generator

