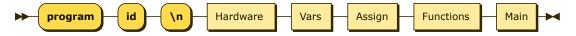
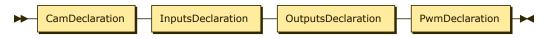
#### Program:



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

no references

#### Hardware:

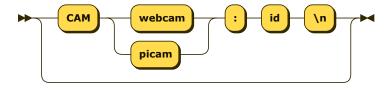


Hardware ::= CamDeclaration InputsDeclaration OutputsDeclaration PwmDeclaration

referenced by:

• <u>Program</u>

#### **CamDeclaration:**



referenced by:

• <u>Hardware</u>

### InputsDeclaration:

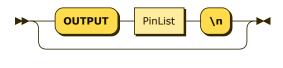


referenced by:

• Hardware

### **OutputsDeclaration:**

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referenced by:

• <u>Hardware</u>

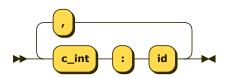
### **PwmDeclaration:**



referenced by:

• <u>Hardware</u>

### PinList:

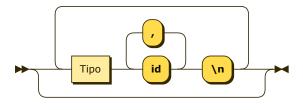


PinList ::= 'c\_int' ':' 'id' ( ',' 'c\_int' ':' 'id' )\*

referenced by:

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

### Vars:

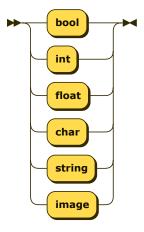


Vars ::= ( Tipo 'id' ( ',' 'id' )\* '\n' )\*

 $referenced\ by:$ 

• <u>Program</u>

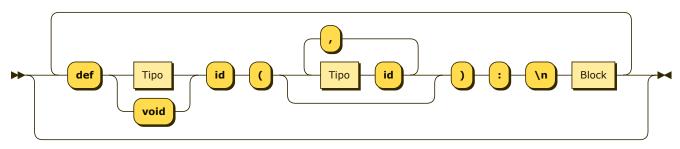
# Tipo:



referenced by:

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

# **Functions:**

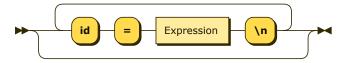


```
Functions
::= ( 'def' ( Tipo | 'void' ) 'id' '(' ( Tipo 'id' ( ',' Tipo 'id' )* )? ')' ':' '\n' Block )*
```

referenced by:

• <u>Program</u>

# Assign:



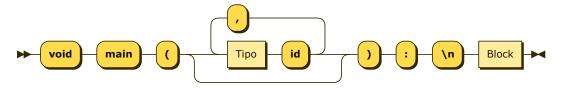
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```
Assign ::= ( 'id' '=' Expression '\n' )*
```

referenced by:

- Program Statement

#### Main:

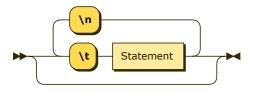


```
::= 'void' 'main' '(' ( Tipo 'id' ( ',' Tipo 'id' )* )? ')' ':' '\n' Block
Main
```

referenced by:

• <u>Program</u>

#### **Block:**

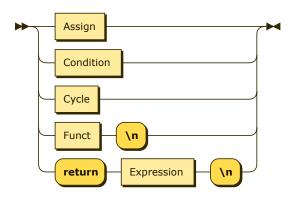


```
::= ( '\t' Statement ( '\n' '\t' Statement )* )?
Block
```

referenced by:

- Condition
- Cycle
- Functions
- Main

### Statement:



Statement

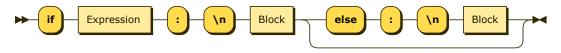
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```
::= Assign
  | Condition
  | Cycle
  | Funct '\n'
  | 'return' Expression '\n'
```

referenced by:

• Block

#### **Condition:**



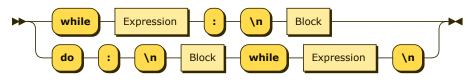
 ${\tt Condition}$ 

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

referenced by:

• Statement

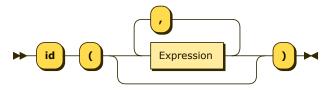
### Cycle:



referenced by:

• Statement

## **Funct:**



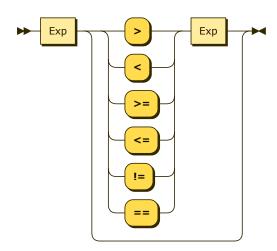
Funct ::= 'id' '(' ( Expression ( ',' Expression )\* )? ')'

referenced by:

- Factor
- <u>Statement</u>

### **Expression:**

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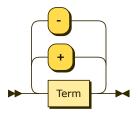


### ${\tt Expression}$

referenced by:

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

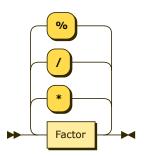
# Exp:



referenced by:

• Expression

### Term:



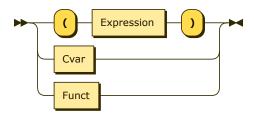
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```
::= Factor ( ( '*' | '/' | '%' ) Factor )*
Term
```

referenced by:

Exp

### Factor:

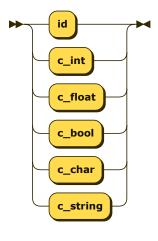


```
::= '(' Expression ')'
Factor
         | Cvar
          Funct
```

referenced by:

• <u>Term</u>

#### Cvar:



referenced by:

• Factor

... generated by Railroad Diagram Generator

