|  |  |  |
| --- | --- | --- |
| Node | Children types | ReturnType |
|  |  |  |
| ActualParams | Same as Formal Params when function was declared | N/A |
| Assignment | Depending on symbol table | N/A |
| BinaryOp | Various | Float, Integer or Boolean |
| Block | N/A | N/A |
| BooleanLiteral | N/A | Boolean |
| ColourLiteral | N/A | Colour |
| Delay | Integer | N/A |
| Factor | Any | any – same as child |
| FloatLiteral | Float or Integer | Float |
| For | Expr has to be Boolean | N/A |
| FormalParameter | N/A | N/A |
| FormalParams | N/A | N/A |
| FunctionCall | N/A | Any – Depending on type provided |
| FunDecl | N/A | N/A |
| Identifier | N/A | Any - depending on symbol table |
| If | Expr has to be Boolean | N/A |
| IntegerLiteral | N/A | Integer |
| Literal | N/A | any – same as child |
| Negative | Float or Integer | Float or Integer – same as input |
| Not | Boolean | Boolean |
| PadHeight | N/A | Integer |
| PadRandi | N/A | Integer |
| PadRead | N/A | Colour |
| PadWidth | N/A | Integer |
| Pixel | Integer x 2, Colour | N/A |
| PixelRange | Integer x 4, Colour | N/A |
| Print | Any | N/A |
| Program | N/A | N/A |
| Return | Any – depending on return type of parent function | N/A |
| Statement | N/A | N/A |
| StatementList | N/A | N/A |
| SubExpr | Any | any – same as child |
| TypeLiteral | N/A | N/A |
| VarDecl | Depending on symbol table | N/A |
| While | Expr has to be Boolean | N/A |