

## Extension

For my extension I have written an infix notation converter for the user's convenience when setting variables in a turtle script.

This will allow you to use standard mathematical expressions, e.g.

$$2 * 2 + 3 * 8$$

as well as brackets, e.g.

$$2 * ( 2 + 3 ) * 8$$

There is no support for exponentiation, +, -, \* and / are the accepted operators.

The infix converter uses the Shunting-yard algorithm to store the infix notation in a binary tree, which is then converted to RPN notation via post-order traversal of the tree. **To switch infix notation on, the INFIX macro in turtles.h should be set to 1.**