

Expressions Explained:

The idea of this paper is to give you an overview of how the expressions work in Flame, and bring down to earth some of the abstract concepts that you have to deal with while writing your expressions.

¿So what is an expression?

An expression in very basic terms is a series of statements that will help you among other things establish a relationship between different elements. Example:

We have two elements:

- + T-shirt
- + The color blue

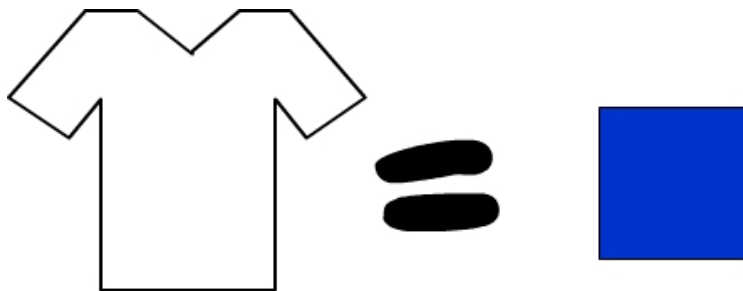
Let's write the following statement:

The t-shirt **is** blue

In this case the word that establishes the relationship is the word **IS**. This word helps us relate the color blue to the t-shirt.

The trick with the expressions is translating "normal" language to the machine's language.

So in the case of the previous example we would write the expression somewhat like this:



The t-shirt is blue OR
t-shirt = blue

Having as a result:



axis1
→ position
→ x

Expression = axis2.position.x

Here since it's a completely different axis we have to write the whole "path" to indicate that the channel we're linking belongs to axis2. The reason we don't have to write the whole path in the previous examples is because the values are under the same level of "hierarchy":

Position → x
→ Y

X and Y both under Position

Or

Axis1 Position → x
 Rotation → y

Position and Rotation both under Axis1

This concludes the first part of working with expressions.
The topics we've covered have been:

- Expressions concept
- Establishing relationships
- Channel Linking
- Simplified expressions.