Or

Block Group:	Logic
Icon:	

Returns one value if one or more of its input properties is TRUE, and another value if all input properties are FALSE.

An Or block is simply an If block where the **op** property is set to "or".

For information on using dataflow blocks, see Dataflow.

Input/Output Properties

These properties can take input and give output.

- op *(enum)*
- input *n (number, string or boolean)*
- then *(number, string or boolean)*
- else *(number, string or boolean)*

op specifies the comparison, logical, or text operator to apply to the input values. The operator is used in conjunction with inputs to form an expression that can be evaluated to TRUE or FALSE. By default, the **op** value of an Or block is "or". The block will not act as described on this page if you change this property. See If Block for more information.

input *n* specifies one of the input values. One or more of the **input *n*** values must evaluate to TRUE for the Or block to return the **then** value. For example, "input 0 OR input 1" is a comparison expression. If **input 0** is TRUE and **input 1** is FALSE, the expression evaluates to TRUE and the Or block outputs the **then** value. Otherwise, if both of the inputs are FALSE, the Or block outputs the **else** value. If **input *n*** is a number, 0 (or NaN) evaluates to FALSE and any other number evaluates to TRUE. The strings "true", "True", "TRUE" and "Active" evaluate to TRUE; empty strings, "false", "False", "FALSE" and "Inactive" evaluate to FALSE. A null input evaluates to FALSE. Add more **input *n*** properties by clicking the plus sign.

then specifies the value to return if one or more of the input properties evaluate to TRUE.

else specifies the value to return if all of the input properties evaluate to FALSE.

Output Properties

These properties can give output. They cannot take input.

- output *(number, string or boolean)*

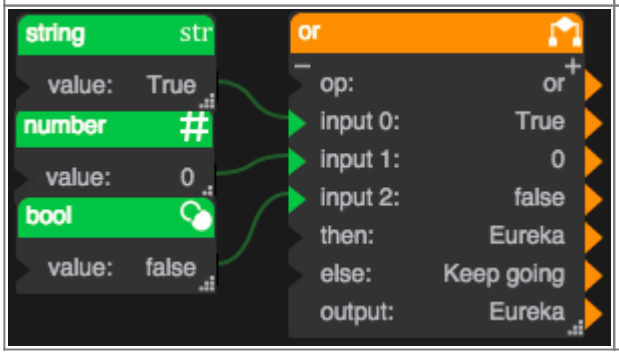
output returns either the **then** value or the **else** value. It returns the **then** value if one or more of the **input *n*** values evaluate to TRUE, and the **else** value otherwise.

Remarks

- You can add more **input *n*** properties by clicking the plus sign, and delete them by clicking the minus sign. You can have up to 1024 input properties. The block needs at least two inputs to update its output. When you add a new input property, it is false by default.
- The input properties should evaluate to logical values, such as TRUE or FALSE.
- If none of the input properties evaluates to TRUE, the Or block returns the **else** value.

Model

This is a basic use of the block.

Dataflow Model	Description
	If any of the input values is equal to TRUE, then the output displays "Eureka". Otherwise, the output displays "Keep going".

Previous: And

Next: Not

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