LOGIC FACTORY

CHEAT SHEET

FILE HANDLING

LOADING

To load a file, select the Load File button in the right-hand corner, which will prompt you to select a JSON file from your system.

SAVING

To save a file, select the Save File button in the right-hand corner, which will prompt you for a filename, then downloads as a JSON file.

OBJECTS IN WORLD

LIBRARIES

A library can be selected in the topright corner, which defines the set of objects that can exist in the world at one time. You can select an object from the TYPE dropdown box and a set the colour for a Geometry object from the COLOUR dropdown box, then click 'Add Object' to add it to the world.

MANIPULATING OBJECTS

Manipulate objects by using the following buttons: 'Bigger', 'Smaller', 'Copy' and 'Remove'. You can dynamically change the Name variable of an object using the NAME textbox. All theses manipulations can be used as fields in expressions.

EXPRESSIONS

WRITING

Use the logic buttons to write your expressions, hover over the buttons to see tooltips & shortcuts. Write expressions about objects you've added to the world

FIELDS

The fields that objects have include: type, width & height or radius, size, x, y, colour and name. The colours are: red, green, blue, orange, yellow, purple, brown, black and white.

ADDING

To add an expression to the expression list, click 'Add Expression'. To delete, click 'Clear Expression'.

EVALUATING

To evaluate an expression to true or false, click Go!

EXAMPLE

∃ x,y • x.size > y.size ∧ x.type != y.type

"There exists object x and y such that x's size is greater than y's size and x's type does not equal y's type"