

Script

Block Group:	Logic
Icon:	

Holds a custom script.

For information on using dataflow blocks, see [Dataflow](#).

Input/Output Properties

These properties can take input and give output.

- **invoke** (*trigger*)
- **autoRun** (*boolean*)
- **script** (*string or multi-line text*)
- **a-z**

invoke causes the script to run.

autoRun specifies whether the script runs automatically.

- **TRUE**: The script runs every time the script is changed, and every time any property is changed. This includes the first time that the script is initialized.
- **FALSE**: The script runs only when the **invoke** property is triggered.

script specifies the instance of DGScript held by this block. See [Scripting and Syntax](#) for more information about creating a script.

a-z set or return the values of properties that you can use in your script as needed.

Output Properties

These properties can give output. They cannot take input.

- **output** (*string*)
- **print** (*string*)

output returns the output of your script.

print returns a string that is used for errors, other notifications, and [debugging](#).

Model

These are basic uses of the block.

Dataflow Model	Description
<p>The Dataflow Model shows a flow from a green "number" block (value: 1000) to an orange "script" block. The "script" block has an "invoke" connection to a "String(@.a,16)" function. Its "output" connection is labeled "3e8" and its "print" connection is labeled "1000". A "string" block (value: 3e8) receives an input from the "script" block and outputs "1000". The "script" block's "script" field contains the code: 1 return String(@.a,16);</p>	<p>This script uses a function from the DGLux5 script reference to convert a base 10 number to base 16.</p>
<p>The Dataflow Model shows two green "string" blocks (value: Lowercase Letters and value: A,B,c,D,e) connected to an orange "script1" block. The "script1" block has an "invoke" connection to a "String(@.a.toUpperCase()+' '+String(@.b.toLowerCase())" function. Its "output" connection is labeled "LOWERCASE LETTERS: a,b,c,d,e" and its "print" connection is labeled "Lowercase Letters A,B,c,D,e". The "script1" block's "script" field contains the code: 1 return String(@.a.toUpperCase()+' '+String(@.b.toLowerCase());</p>	<p>This script converts the first input string to all uppercase letters and the second input string to all lowercase letters. It concatenates them with a middle string that includes a space and some punctuation.</p>

Use Case

This [Keyboard Event use case](#) uses a Script block.

[Previous: Event Gate](#)

[Next: Trace](#)

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