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iCanScript v2.0.20		
June 8, 2015		
V2.0.20 add the ability to	define the generated code variable specification associated with the ports.	
With V2.0.20, the user car Variables is also provided	n create public or private ports as well as determine if the port is static (class scope) or not (instance scope). Support for Constant, Parameters, and Lo	
(WARNING): V2.0.20 req	uires Unity V5.0.2 or later. Please upgrade Unity before using this version of iCanScript.	
List of Changes		
	rt for selecting the type of variable to be generated in the port dialog editor:	
Constant;      Dublic & Drivete	Versiables	
<ul><li>Public &amp; Private `</li><li>Static Public &amp; P</li></ul>		
<ul> <li>Local Variables;</li> </ul>	Tivate variables,	
<ul> <li>Function Definition</li> </ul>	on Parameters.	
• [NEW] New port visual	als to easily indentify the variable type associated with the port.	
	e contrast of the selected node.	
	se port size to improve variable type visibility.	
	needed casts in the generated code. data upgrade in now perform on import.	
V2.0.19 adds the support	for C# primitive variables <i>Bool</i> , <i>Int</i> , <i>Float</i> , and <i>String</i> .	
List of Changes		
• [NEW] Added suppor	rt for the creation and usage of C# primitive types: bool, int, float, string. The C# primitive types are located in namespace <b>CSharp.Primitives</b> .  ne variables in namespace <b>iCanScript.Variables</b> should be replaced by their C# equivalent. The iCanScript variables are now obsoleted and will be	
<ul> <li>IMPORTANT: The removed in a future</li> </ul>		
<ul> <li>IMPORTANT: The removed in a future</li> <li>[IMPROVED] Partial</li> <li>NOTE: To remain</li> </ul>	ure release. conversion of the API that changed between Unity 5.0.1 and 5.0.2. n compatible with Unity 5.0.1, not all of the API changes have been applied.	
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<ul> <li>IMPORTANT: The removed in a future removed in a future [IMPROVED] Partial remains and remains are removed.</li> <li>IMPROVED] Avoid grade [IMPROVED] Null exceptions.</li> <li>ICANSCRIPT V2.</li> </ul>	ure release.  conversion of the API that changed between Unity 5.0.1 and 5.0.2.  n compatible with Unity 5.0.1, not all of the API changes have been applied.  generating variable and function names that collide with C# reserved keywords.  on when generating comments for a function parameter that has no description field.	
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iCanScript Release Notes

iCanScript v2.0.21

V2.0.21 add the ability to define node that can inject your own source code into the generated code.

• The *Inline Code* can be added to your graph from the contextual menu.

**WARNING]:** V2.0.20 requires Unity V5.0.2 or later. Please upgrade Unity before using this version of iCanScript.

• The *Inline Code* node can be used to injecting your own source code into the generated code.

June 15, 2015

**List of Changes** 

**List of Changes** 

iCanScript v2.0.15

V2.0.15 is a library database bug fix release.

May 15, 2015

May 15, 2015

May 15, 2015

May 13, 2015

libraries.

**List of Changes** 

iCanScript v2.0.11

iCanScript v2.0.10

iCanScript v2.0.9

**List of Changes** 

iCanScript v2.0.8

**List of Changes** 

iCanScript v2.0.7

**List of Changes** 

iCanScript v2.0.6

**List of Changes** 

iCanScript v2.0.5

**List of Changes** 

iCanScript v2.0.4

**List of Changes** 

iCanScript v2.0.3

**List of Changes** 

iCanScript v2.0.2

**List of Changes** 

iCanScript v2.0.1

**List of Changes** 

iCanScript v2.0.0

March 20, 2015

V2.0.1 is a development release of iCanScript2.

V2.0.0 is the initial development release of iCanScript2.

April 14, 2015

V2.0.2 is a development release of iCanScript2.

April 15, 2015

V2.0.3 is a development release of iCanScript2.

April 16, 2015

V2.0.6 is a development release of iCanScript2.

V2.0.5 is a development release of iCanScript2.

V2.0.4 is a development release of iCanScript2.

• [IMPROVED] Performance of panning canvas.

[IMPROVED] Improve name of trigger port in generated code.

• [IMPROVED] Add the 'Self' port on all function nodes.

• **[FIXED]** Disabled nodes are now displayed with half intensity in editor mode.

• [FIXED] Fix code generation when multiple enables exists on a single node.

April 20, 2015

April 20, 2015

April 19, 2015

April 17, 2015

V2.0.8 is a development release of iCanScript2.

April 22, 2015

V2.0.11 was rejected and therefore not released.

V2.0.10 was rejected and therefore not released.

V2.0.9 is a development release of iCanScript2.

**[NEW]** iCanScript2 can now be used to create *Editor Scripts*.

• **NOTE:** A restart is required for this option to take effect.

• **[NEW]** The user can now customize the *namespace* for code generation:

• The Unity Editor Library must be enabled to create Editor Visual Scripts.

• [IMPROVED] Warning provided to help simplify situation where data and control flow overlap.

• [FIXED] Invalid code generated for static functions of "GameObject" and "Transform".

• **[NEW]** Added a *Visual Script Configuration Panel* accessible from the visual script toolbar.

• **[NEW]** The global *Base Type* can be configured in the *Global Preferences*;

V2.0.7 resolves two major issues introduced in release v2.0.6. Sorry for the inconvenience.

• **[FIXED]** Enumeration null exception on data upgrade of visual script.

• **[FIXED]** Invalid error generated on *get* accessor of fields.

• [FIXED] Null exception when attempting to import a field with its value set *null*.

• **[NEW]** The user can now configure the *base type (inheritance)* for the type defined by the visual script.

• **[NEW]** The Base Type can be overridden for each visual script in the new Visual Script Configuration Panel.

• [IMPROVED] Automatically generated type-cast now uses the most specialized type instead of the common base type.

[IMPROVED] Restructuring of the dynamic menu for future support of variable & nested type creation.

• **[NEW]** Default *Target* port value to script *Owner* if not connected and of type *Transform* or *GameObject*.

[IMPROVED] In the contextual menu, rename menu item "+ Out Instance Port" to "+ Add Self Port".

• [IMPROVED] In the contextual menu, rename menu item "+ Enable Port" to "+ Add Enable Port". • [IMPROVED] In the contextual menu, rename menu item "+ Trigger Port" to "+ Add Trigger Port".

• [FIXED] Prepend namespace to generated type names when type exists in more than one namespace.

• **[FIXED]** Generation of the "using" directive is now dependent on the content of the visual script.

• [IMPROVED] Addition of the Unity "Awake()" event handler in the dynamic menu.

• **[FIXED]** Fix code generation when *Target* port is connected to a package input port that is initialized to *Owner*.

V2.0.3 introduces the concept of the script *Owner* which is used to configure input ports to designate the game object on which the script is installed.

• [FIXED] Remove generation of extra function parameters when input port is connected to a variable defined outside of the function.

• [IMPROVED] Remove illegal option to add *enable/trigger* ports on a Unity event handler.

[IMPROVED] Remove unused menu item '+ Iterator' from contextual menu.

• [IMPROVED] Prefix all constructors with the keyword *New* in the library.

• **[NEW]** Error display when a function node cannot find its runtime code.

• **[FIXED]** Opening the port/node editor now requires a double click.

• [FIXED] Generate upcast when the Target port when needed.

• [FIXED] Fields defined in a base class not properly imported in derived classes resulting in a type not found error.

May 8, 2015

May 1st, 2015

April 24, 2015

**List of Changes** 

iCanScript v2.0.14

V2.0.14 is a critical bug fix release.

iCanScript v2.0.13

iCanScript v2.0.12

V2.0.13 was rejected due to critical bugs found.

**List of Changes** 

• **[NEW]** Support code generation for function definition input parameters. NOTE: Output parameters and return value is not yet supported.

• [IMPROVED] Don't show the inherited members by default in the library window.

• [FIXED] Fix issue introduced in v2.0.12 where new visual script could not be created.

• [FIXED] Fix "Unable to find suitable parent" error message when drawing from the library.

• [NEW] Imports all public libraries and source code available in the Unity project;

first a scene created with an earlier version of iCanScript.

[IMPROVED] Rename library branches for element without a namespace to "- no namespace -" instead of <empty>.

V2.0.12 introduces a redesigned library capable of supporting all features of an object-oriented programming language (ex: C# or C++).

• **[NEW]** The library database and its selection window has been fully designed to support all features of an object-oriented language (C# or C++).

WARNING: The option to display in the library the functions with a protected accessibility scope is not functional in this release.

• **[NEW]** Library database hierarchy is structured based on the namespaces and types imported from the libraries.

• **[NEW]** The **Type Name** of the visual script can now be configured in the *Visual Script Configuration* panel.

• Enable/Disable the Editor Script option in the Visual Script Configuration to switch between engine and editor scripts.

• [NEW] An option to include the Unity Editor Library is now available in the Code Generation section of the Global Preferences.

• **[NEW]** Separate *Namespaces* for *Editor* & *Engine* code generation can be customized from the *Global Preferences*;

• [IMPROVED] The "Add Unity Event Handler" menu item is no longer displayed if the script does not inherit from MonoBehaviour.

• [FIXED] The name of the type can now be configured when a port required a Type value. The type name format is: "namespace.type".

• **[NEW]** The *Namespace* can be overridden on a visual script basis using the *Visual Script Configuration Panel*.

[NEW] The user can now customize the *code generation folders* for the *Editor* and *Engine* visual scripts from the *Global Preferences*.

The new library component automatically imports any library added to the project and therefore includes all functionality available in the Unity Engine, Unity Editor, and .NET

[NEW] Three search fields allow to filter the library database content based on the namespace, the type, and the member (field / property / function) names.

• [CHANGED] The iCanScript nodes were relocated under the iCanScript namespace to conform with the new library database structure. A data upgrade will be performed the

[REMOVED] The ability to programatically import external libraries into the iCanScript library database has been removed (since all libraries are automatically imported).

• [REMOVED] The option to include/exclude the Unity editor library using the Global Configuration panel has been removed (the Unity Editor library is always imported).

• **[NEW]** A new node type *Inline Code*\* has been added.

iCanScript v2.0.17 May 20, 2015 V2.0.17 adds the operators for simple primitive types such as Boolean, Int, and Float. you see errors after you upgrade. **List of Changes** 

[WARNING]: The library iCanScript.Logic.Boolean has been replaced by CSharp.Primitives.Bool. Note that you may have to regenerate the source code from the visual script if • [NEW] Added support for C# primitive variable operators. The new operators can be access from the library under namespace: CSharp.Primitives. The primitive types that are affected are: • Bool, Int, and Float. • [NEW] An option to Show / Hide the Unity Editor library has been added to the library toolbar. [IMPROVED] Properly indent the generated code for the first line of the class declaration. • [IMPROVED] The Unity event handlers in the dynamic menu are now sorted. [IMPROVED] The library options *Show Inherited* is now preserved after a recompile or a restart of Unity. • [CHANGED] The library options *Show Protected* has been removed from the library toolbar. [REMOVED] The library node iCanScript.Logic.Boolean has been removed. Use CSharp.Primitives.Bool instead. iCanScript v2.0.16 May 20, 2015 V2.0.16 is a code generation bug fix release.