

Node

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Description

The abstract base class of all SceneGraph nodes and the equivalent of the BrightScript roSGNode component. See [roSGNode](#) for supported interfaces.

Node class objects do not draw anything and are skipped in the render traversal of the SceneGraph node tree. The **Node** class provides the core parenting and key focus management functionality used by all nodes.

Fields

Field	Type	Default	Use																				
id	string	""	Adds a dictionary entry that allows the node to be retrieved with <code>ifSGNodeDict.findNode()</code> function																				
focusedChild	N/A	N/A	When a node or one of its children gains or loses the keyboard focus, the <code>focusedChild</code> field will be set and call its observer functions. In the observer function, typically, you use <code>ifSGNodeFocus</code> functions to query whether this node or some other node has the key focus or is in the key focus chain. Accessing the value of the field will result in script errors.																				
focusable	Boolean	false	Provides a hint as to whether or not this node can take the key focus																				
change	associative array	{ Index1: 0, Index2: 0, Operation: none }	Read-Only Operations affecting the set of children of a Node are recorded in this field if, and only if, this field has been observed. The field associative array indicates the <i>operation</i> and two indexes, <i>index1</i> and <i>index2</i> , involved in the change. The <i>operation</i> is denoted by these value strings: <table border="1"><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>none</td><td>No operation on the children nodes since the change field was observed, indexes are irrelevant</td></tr><tr><td>insert</td><td>A child node was inserted at <i>index1</i></td></tr><tr><td>add</td><td>A child node was added to the end of the children node tree (at <i>index1</i>)</td></tr><tr><td>remove</td><td>A child node was removed from position <i>index1</i>, and if <i>index2</i>><i>index1</i>, all the children nodes between <i>index1</i> and <i>index2</i> inclusive were removed</td></tr><tr><td>set</td><td>The child node at position <i>index1</i> was replaced with a new child node</td></tr><tr><td>clear</td><td>All the children nodes were removed</td></tr><tr><td>move</td><td>The child node at position <i>index1</i> was moved to the new position <i>index2</i></td></tr><tr><td>setall</td><td>All the children nodes were replaced</td></tr><tr><td>modify</td><td>A pre-defined content meta-data field of a ContentNode node child at <i>index1</i> was changed (<i>only</i> set for ContentNode node children when a pre-defined content meta-data field changes)</td></tr></tbody></table>	Value	Meaning	none	No operation on the children nodes since the change field was observed, indexes are irrelevant	insert	A child node was inserted at <i>index1</i>	add	A child node was added to the end of the children node tree (at <i>index1</i>)	remove	A child node was removed from position <i>index1</i> , and if <i>index2</i> > <i>index1</i> , all the children nodes between <i>index1</i> and <i>index2</i> inclusive were removed	set	The child node at position <i>index1</i> was replaced with a new child node	clear	All the children nodes were removed	move	The child node at position <i>index1</i> was moved to the new position <i>index2</i>	setall	All the children nodes were replaced	modify	A pre-defined content meta-data field of a ContentNode node child at <i>index1</i> was changed (<i>only</i> set for ContentNode node children when a pre-defined content meta-data field changes)
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