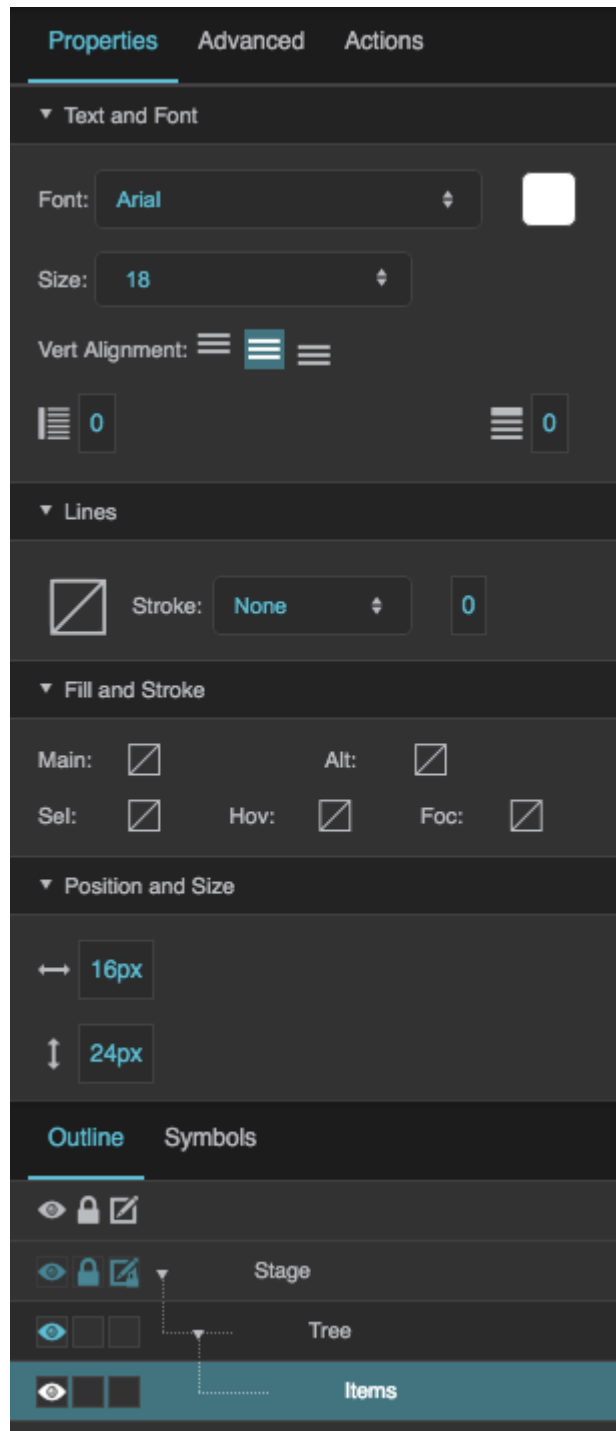


Tree Properties

These properties affect the tree component. For a guide to using the tree component, see [Tree](#).



Trees are also affected by [Common Properties](#).



The Tree Items properties in the Property Inspector

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:

Show Root Max Depth:


Load All Nodes Expand All Nodes


Show Loading Indicator


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:




Open Icon: 




Open Icon Selected: 




Close Icon: 




Close Icon Selected: 

Outline Symbols

   Stage

   **Tree**

   Items

The Tree properties in the Property Inspector

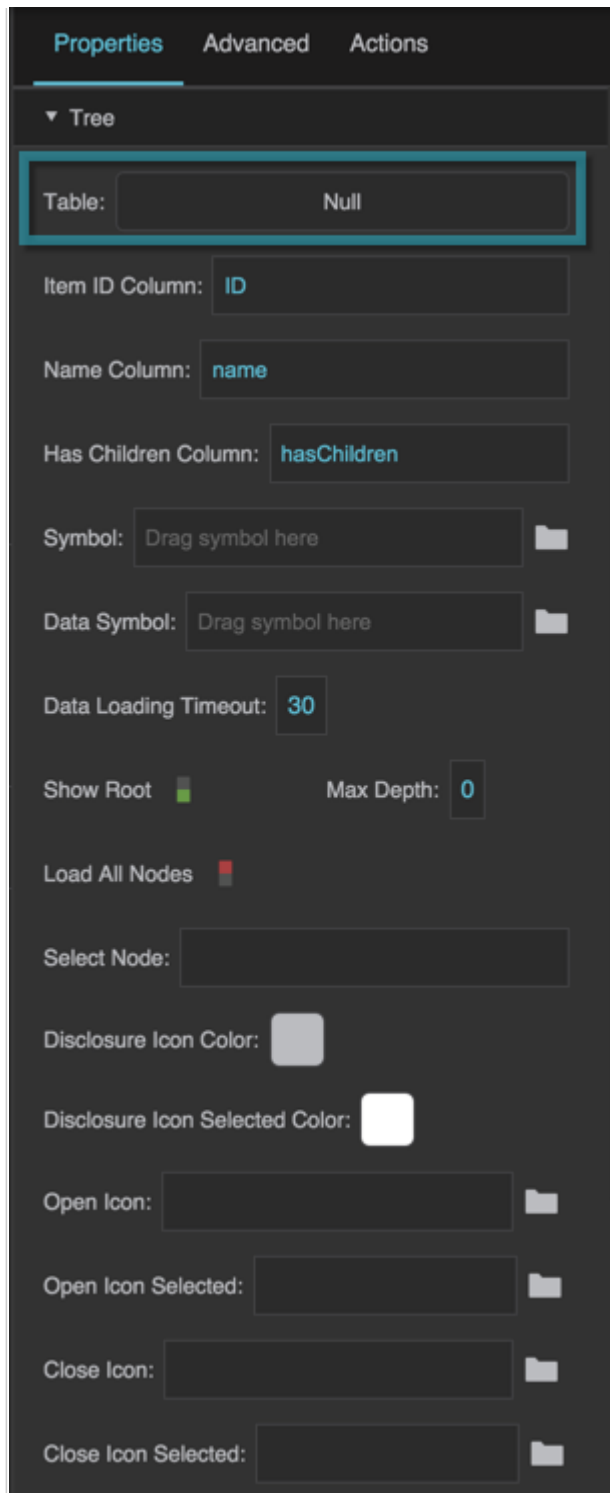
Click to display/hide all elements

Tree Properties

These properties affect the entire tree.

Table (Required)

Defines the table that the tree uses as a data source. This table contains the top level of nodes and references to the next level of nodes, if they exist. This table must include a column that contains item IDs.



Properties Advanced Actions

▼ Tree

Table: Null

Item ID Column: ID

Name Column: name

Has Children Column: hasChildren

Symbol: Drag symbol here

Data Symbol: Drag symbol here

Data Loading Timeout: 30

Show Root Max Depth: 0

Load All Nodes

Select Node:

Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon:

Open Icon Selected:

Close Icon:

Close Icon Selected:

The Table property

Item ID Column (Required)

Contains the name of a column in this tree's source table. This column contains IDs for tree nodes. IDs must be unique within a given table.

The screenshot shows a dark-themed configuration window for a tree component. At the top, there are three tabs: 'Properties' (selected), 'Advanced', and 'Actions'. Below the tabs is a dropdown menu labeled 'Tree'. The main area contains several configuration fields:

- Table:** A text input field containing 'Null'.
- Item ID Column:** A text input field containing 'ID', which is highlighted with a red rectangular border.
- Name Column:** A text input field containing 'name'.
- Has Children Column:** A text input field containing 'hasChildren'.
- Symbol:** A text input field containing 'Drag symbol here' with a folder icon to its right.
- Data Symbol:** A text input field containing 'Drag symbol here' with a folder icon to its right.
- Data Loading Timeout:** A numeric input field containing '30'.
- Show Root:** A checkbox that is checked, indicated by a green square.
- Max Depth:** A numeric input field containing '0'.
- Load All Nodes:** A checkbox that is unchecked, indicated by a red square.
- Select Node:** An empty text input field.
- Disclosure Icon Color:** A color selection box showing a light gray color.
- Disclosure Icon Selected Color:** A color selection box showing a white color.
- Open Icon:** A text input field with a folder icon to its right.
- Open Icon Selected:** A text input field with a folder icon to its right.
- Close Icon:** A text input field with a folder icon to its right.
- Close Icon Selected:** A text input field with a folder icon to its right.

The Item ID Column property

Name Column (Recommended)

Contains the name of a column in this tree's source table. This column contains names for tree nodes. If default tree styling is used, the items in this column are used as display text. If a symbol is used for the tree, and the symbol has a default property defined, the items in this column are used for that default property.

Properties Advanced Actions

▼ Tree

Table: Null

Item ID Column: ID

Name Column: name

Has Children Column: hasChildren

Symbol: Drag symbol here

Data Symbol: Drag symbol here

Data Loading Timeout: 30

Show Root Max Depth: 0

Load All Nodes

Select Node:

Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon:

Open Icon Selected:

Close Icon:

Close Icon Selected:

The Name Column property

Has Children Column (Recommended)

Contains the name of a column in this tree's source table. This column indicates whether items in the tree have children and whether the disclosure icon is displayed. All values are considered TRUE except:

- false
- False

- a null value
- any string that is parsed as 0

If no column is set, the disclosure icon is always displayed, and an attempt can always be made to load children.

The image shows a dark-themed configuration panel for a tree component. At the top, there are three tabs: 'Properties' (selected), 'Advanced', and 'Actions'. Below the tabs is a dropdown menu labeled 'Tree'. The main configuration area contains several fields:

- Table:** A text input field containing the value 'Null'.
- Item ID Column:** A text input field containing the value 'ID'.
- Name Column:** A text input field containing the value 'name'.
- Has Children Column:** A text input field containing the value 'hasChildren', which is highlighted with a red rectangular border.
- Symbol:** A text input field with the placeholder text 'Drag symbol here' and a folder icon to its right.
- Data Symbol:** A text input field with the placeholder text 'Drag symbol here' and a folder icon to its right.
- Data Loading Timeout:** A numeric input field containing the value '30'.
- Show Root:** A checkbox that is currently checked, indicated by a green square.
- Max Depth:** A numeric input field containing the value '0'.
- Load All Nodes:** A checkbox that is currently unchecked, indicated by a red square.
- Select Node:** A text input field.
- Disclosure Icon Color:** A color selection field with a grey square.
- Disclosure Icon Selected Color:** A color selection field with a white square.
- Open Icon:** A text input field with a folder icon to its right.
- Open Icon Selected:** A text input field with a folder icon to its right.
- Close Icon:** A text input field with a folder icon to its right.
- Close Icon Selected:** A text input field with a folder icon to its right.

The Has Children Column property

Symbol

Optionally, this property can be used to specify a symbol to represent the tree nodes, instead of the default tree styling.

The screenshot shows a configuration panel for a tree component. The 'Symbol' field is highlighted with a red box. The panel includes the following fields and controls:

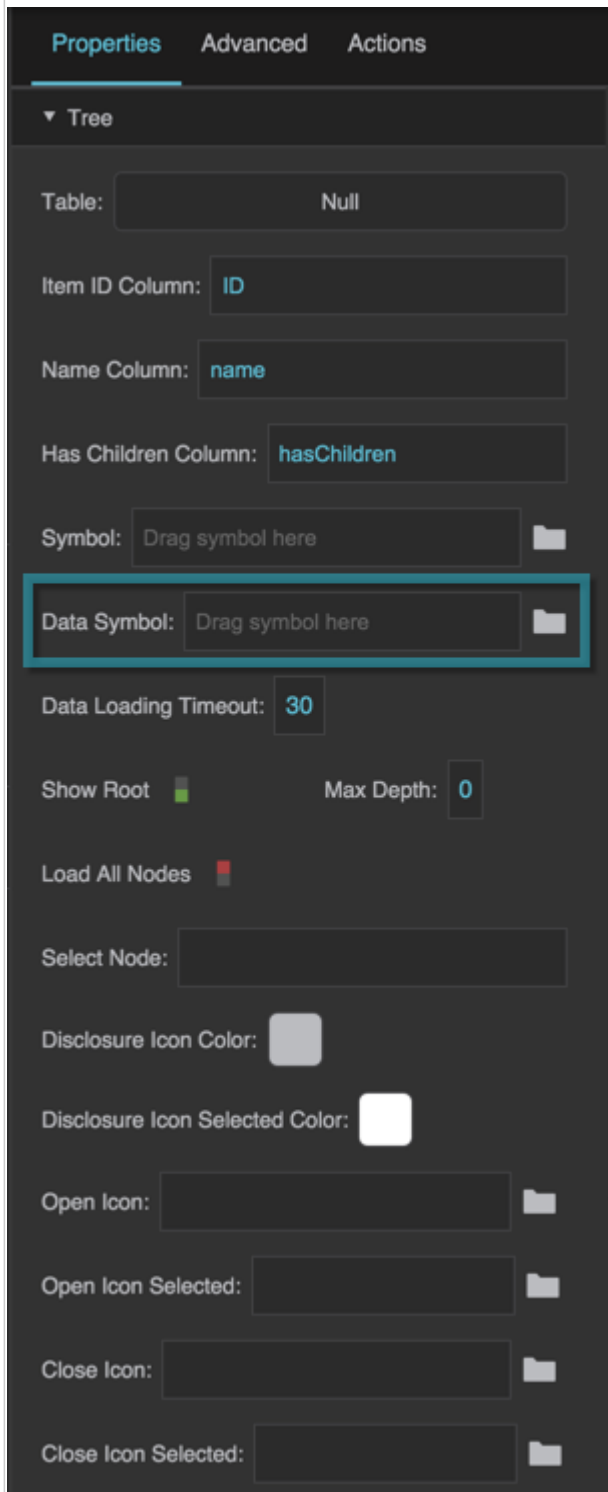
- Table: Null
- Item ID Column: ID
- Name Column: name
- Has Children Column: hasChildren
- Symbol: Drag symbol here (highlighted)
- Data Symbol: Drag symbol here
- Data Loading Timeout: 30
- Show Root:
- Max Depth: 0
- Load All Nodes:
- Select Node: [empty text box]
- Disclosure Icon Color: [color picker]
- Disclosure Icon Selected Color: [color picker]
- Open Icon: [empty text box]
- Open Icon Selected: [empty text box]
- Close Icon: [empty text box]
- Close Icon Selected: [empty text box]

The Symbol property

Data Symbol (Required)

Specifies the name of the [dataflow symbol](#) to be used by this tree. As described [here](#), the dataflow symbol must include input and output [tabledata parameters](#). This symbol takes a one-row table and

returns the child table that it refers to, if any.



The screenshot shows the 'Tree' properties dialog box with the following fields and values:

- Table: Null
- Item ID Column: ID
- Name Column: name
- Has Children Column: hasChildren
- Symbol: Drag symbol here
- Data Symbol: Drag symbol here** (highlighted with a red rectangle)
- Data Loading Timeout: 30
- Show Root:
- Max Depth: 0
- Load All Nodes:
- Select Node:
- Disclosure Icon Color:
- Disclosure Icon Selected Color:
- Open Icon:
- Open Icon Selected:
- Close Icon:
- Close Icon Selected:

The Data Symbol property

Data Loading Timeout

Specifies how long, in seconds, DGLux5 will attempt to load a child table before stopping the attempt.

The screenshot shows a configuration panel for a tree component. It has three tabs: 'Properties', 'Advanced', and 'Actions'. Under the 'Properties' tab, there is a 'Tree' section. The configuration includes:

- Table: Null
- Item ID Column: ID
- Name Column: name
- Has Children Column: hasChildren
- Symbol: Drag symbol here (with a folder icon)
- Data Symbol: Drag symbol here (with a folder icon)
- Data Loading Timeout: 30** (highlighted with a red box)
- Show Root: (with a green indicator)
- Max Depth: 0
- Load All Nodes: (with a red indicator)
- Select Node: (empty text input)
- Disclosure Icon Color: (color picker)
- Disclosure Icon Selected Color: (color picker)
- Open Icon: (with a folder icon)
- Open Icon Selected: (with a folder icon)
- Close Icon: (with a folder icon)
- Close Icon Selected: (with a folder icon)

The Data Loading Timeout property

Show Root

Specifies whether the data in the top-level table is displayed in the tree component. This property is TRUE by default.

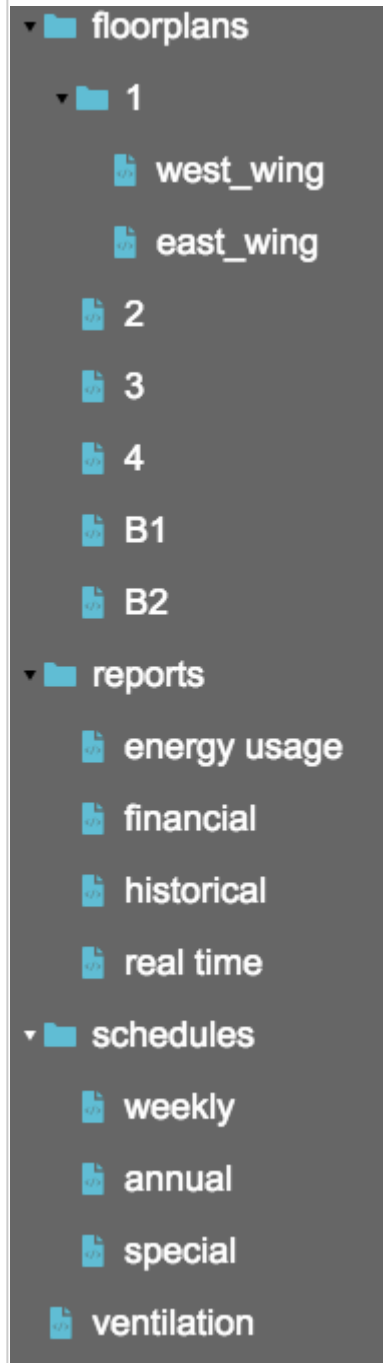
TRUE

The tree component displays as its top level the nodes named in the table that is used as the **Table**

property.

FALSE

The tree component displays as its top level the *children of the first row of the table* that is used as the **Table** property. The other rows from the top-level table are not displayed.



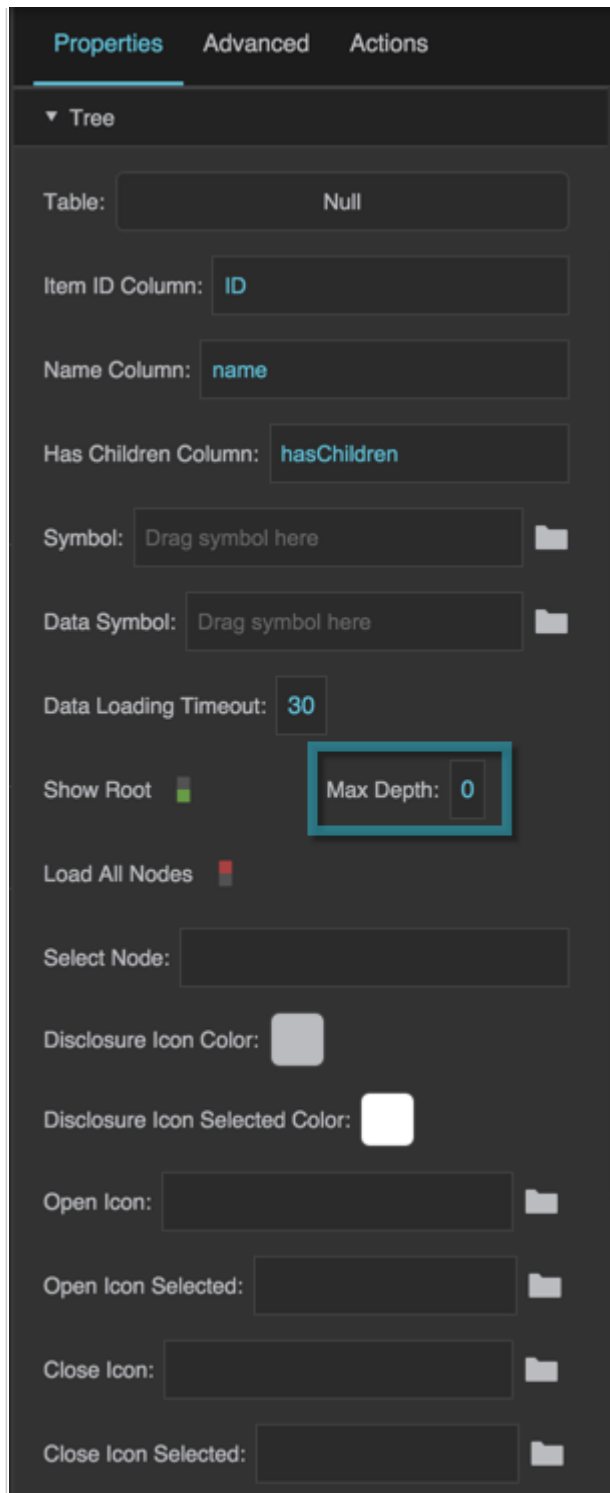
A tree with the Show Root property set to TRUE (left) and FALSE (right)

The screenshot shows a configuration panel for a tree view. The 'Show Root' checkbox is highlighted with a red box. The 'Max Depth' is set to 0. Other settings include 'Table: Null', 'Item ID Column: ID', 'Name Column: name', 'Has Children Column: hasChildren', 'Symbol: Drag symbol here', 'Data Symbol: Drag symbol here', 'Data Loading Timeout: 30', 'Load All Nodes', 'Select Node', 'Disclosure Icon Color', 'Disclosure Icon Selected Color', 'Open Icon', 'Open Icon Selected', 'Close Icon', and 'Close Icon Selected'.

The Show Root property

Max Depth

An integer that specifies the maximum level of tree descendants that are allowed. A value of 0 allows an unlimited number of levels. A value of 1 allows only one level of nodes and does not allow any descendants to be loaded.



The screenshot shows a configuration panel for a tree component. At the top, there are three tabs: 'Properties' (selected), 'Advanced', and 'Actions'. Below the tabs is a dropdown menu labeled 'Tree'. The main area contains several configuration options:

- Table: Null
- Item ID Column: ID
- Name Column: name
- Has Children Column: hasChildren
- Symbol: Drag symbol here (with a folder icon)
- Data Symbol: Drag symbol here (with a folder icon)
- Data Loading Timeout: 30
- Show Root:
- Max Depth: 0 (highlighted with a red box)
- Load All Nodes:
- Select Node: (empty text input)
- Disclosure Icon Color: (color picker)
- Disclosure Icon Selected Color: (color picker)
- Open Icon: (with a folder icon)
- Open Icon Selected: (with a folder icon)
- Close Icon: (with a folder icon)
- Close Icon Selected: (with a folder icon)

The Max Depth property

Load All Nodes

A boolean value that indicates whether to pre-load children for the tree. This value is FALSE by default.

TRUE

All children are loaded when the page is first loaded, when the data table is first set, or when this property becomes TRUE.

FALSE

Children of a node are loaded only when requested, for example when a user clicks the disclosure icon.

The screenshot shows a 'Tree' properties panel with the following settings:

- Table: Null
- Item ID Column: ID
- Name Column: name
- Has Children Column: hasChildren
- Symbol: Drag symbol here
- Data Symbol: Drag symbol here
- Data Loading Timeout: 30
- Show Root:
- Max Depth: 0
- Load All Nodes**: (highlighted with a red box)
- Select Node:
- Disclosure Icon Color:
- Disclosure Icon Selected Color:
- Open Icon:
- Open Icon Selected:
- Close Icon:
- Close Icon Selected:

The Load All Nodes property

Expand All Nodes

This property is visible only when **Load All Nodes** is TRUE. It determines whether to expand all nodes after they are loaded.

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:

Show Root Max Depth:


Load All Nodes


Show Loading Indicator


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

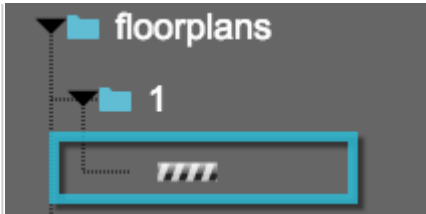
Close Icon: 

Close Icon Selected: 

The Expand All Nodes property

Show Loading Indicator

Determines whether to display a visual signal when an attempt is being made to load tree nodes.



An example of the loading indicator

Properties Advanced Actions

▼ Tree

Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol:

Data Symbol:

Data Loading Timeout:

Show Root Max Depth:

Load All Nodes Expand All Nodes

Show Loading Indicator

Select Node:

Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon:

Open Icon Selected:

Close Icon:

Close Icon Selected:

The Show Loading Indicator property

Select Node

A node ID that specifies a loaded node to select, expand, and make visible. Only works if the tree's [Selection Behavior](#) is set to a value other than **None**.

If the specified node is not loaded, this property does nothing. You can use this property together with the **Load All Nodes** property and the **onAllNodesLoaded** event property in the [Advanced properties](#), to ensure that all nodes are loaded before this property's value is set.

If a node with the specified ID exists in more than one table, then the first node with this ID that is encountered is used.

For selection of more than one node, use the **Selected Items** property in the [Selection properties](#). However, **Selected Items** controls selection only, not which nodes are expanded.

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:


Show Root Max Depth:


Load All Nodes


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

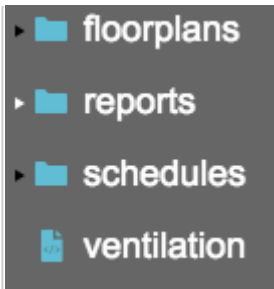
Close Icon: 

Close Icon Selected: 

The Select Node property

Disclosure Icon Color

A color to be used for the default "expand" and "collapse," or "open" and "close," icons for a node that has children and is not currently selected.



A tree with a black Disclosure Icon Color and a white Disclosure Icon Selected Color

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:


Show Root Max Depth:


Load All Nodes


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

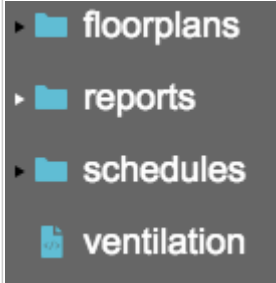
Close Icon: 

Close Icon Selected: 

The Disclosure Icon Color property

Disclosure Icon Selected

A color to be used for the default "expand" and "collapse," or "open" and "close," icons for a node that has children and is currently selected. Only works if selection is enabled for this tree.



A tree with a black Disclosure Icon Color and a white Disclosure Icon Selected Color

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:


Show Root Max Depth:


Load All Nodes


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

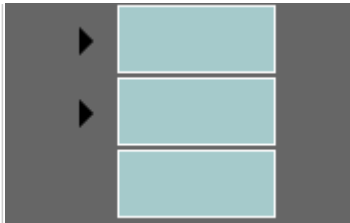
Close Icon: 

Close Icon Selected: 

The Disclosure Icon Selected Color property

Open Icon

An image to be used as the "expand," or "open," icon for a node that has children, is currently closed, and is not currently selected.



A tree with a triangle SVG used as the Open Icon property

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:


Show Root Max Depth:


Load All Nodes


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

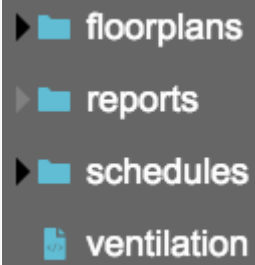
Close Icon: 

Close Icon Selected: 

The Open Icon property

Open Icon Selected

An image to be used as the "expand," or "open," icon for a node that has children, is currently closed, and is currently selected. Only works if selection is enabled for this tree.



A tree with a gray triangle SVG used as the Open Icon Selected property

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:


Show Root Max Depth:


Load All Nodes


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

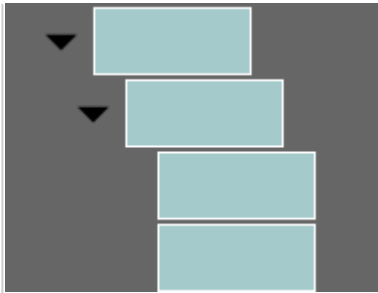
Close Icon: 

Close Icon Selected: 

The Open Icon Selected property

Close Icon

An image to be used as the "collapse," or "close," icon for a node that has children, is currently open, and is not currently selected.



A tree with a black triangle SVG used as the Close Icon property

Properties Advanced Actions

▼ Tree

Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol:

Data Symbol:

Data Loading Timeout:

Show Root Max Depth:

Load All Nodes

Select Node:

Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon:

Open Icon Selected:

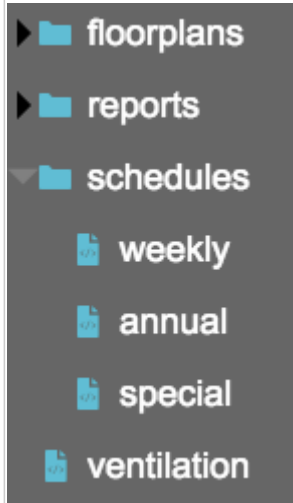
Close Icon:

Close Icon Selected:

The Close Icon property

Close Icon Selected

An image to be used as the "collapse," or "close," icon for a node that has children, is currently open, and is currently selected. Only works if selection is enabled for this tree.



A tree with a gray triangle SVG used as the Close Icon Selected property

Properties Advanced Actions


▼ Tree


Table:

Item ID Column:

Name Column:

Has Children Column:

Symbol: 

Data Symbol: 

Data Loading Timeout:


Show Root Max Depth:


Load All Nodes


Select Node:


Disclosure Icon Color:

Disclosure Icon Selected Color:

Open Icon: 

Open Icon Selected: 

Close Icon: 

Close Icon Selected: 

The Close Icon Selected property

Tree Items Properties

These properties affect the visual formatting of the tree.

Tree Items Text and Font Properties

The Text and Font properties for tree items are similar to those for [Text components](#).

Tree Items Lines Properties

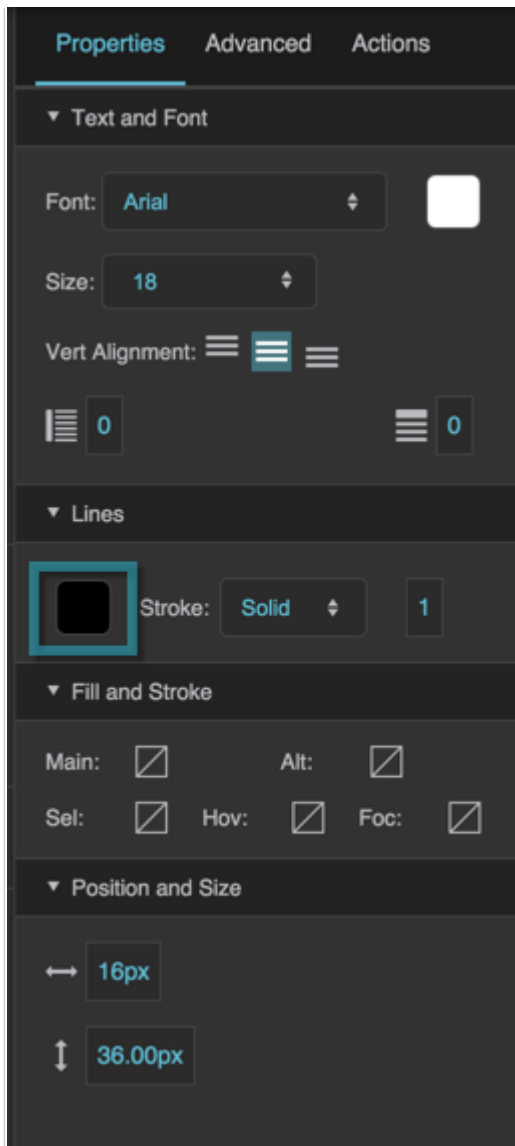
The Lines properties for tree items affect the lines that connect tree items.



A tree with the Lines properties set as a black dotted line.

Lines Stroke Color

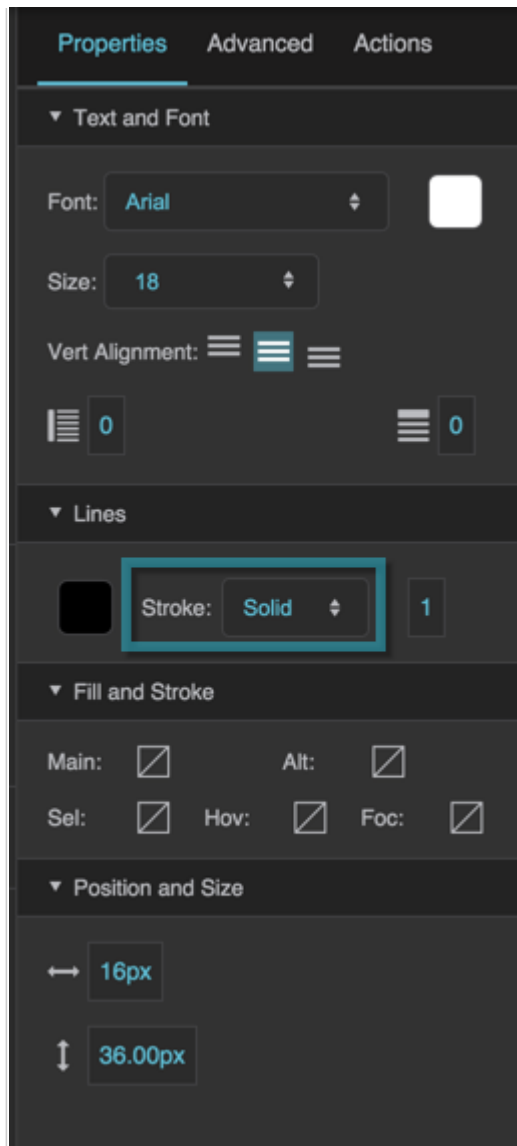
Defines the color used for lines in the tree.



The Lines Stroke Color property

Lines Stroke Style

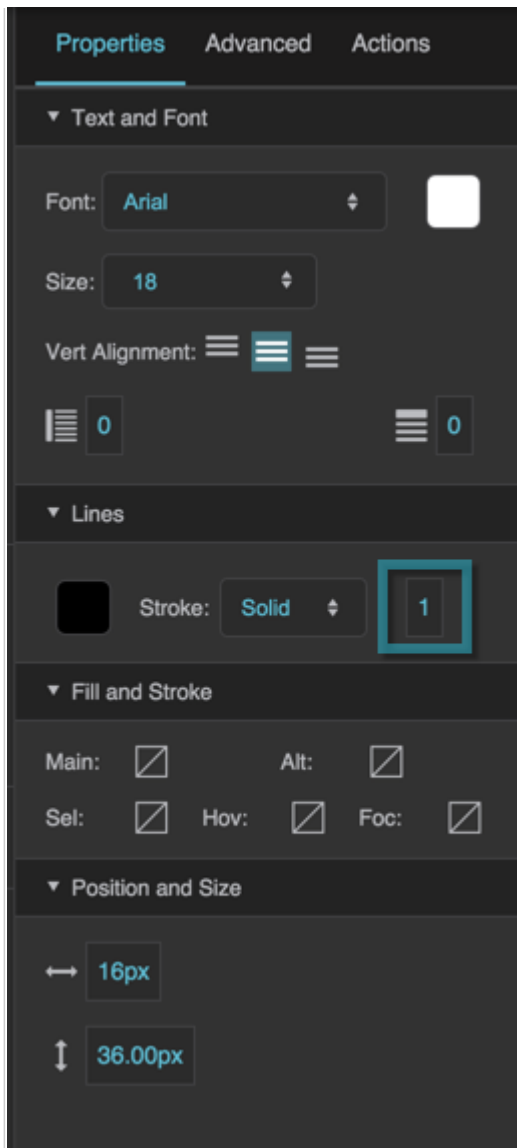
Defines whether lines in the tree are solid or dotted lines.



The Lines Stroke Style property

Lines Stroke Weight

Defines the stroke weight used for lines in the tree.

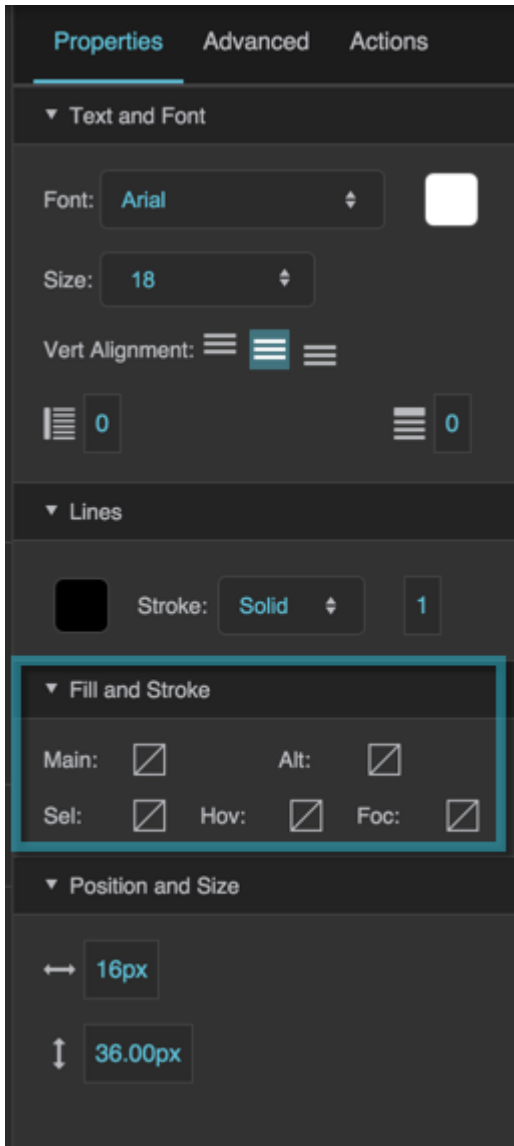


The Lines Stroke Weight property

Tree Items Fill Properties

Tree items fill properties affect the types of rows listed in this table.

Property	Description
Main Rows	The first group of alternating rows.
Alternate Rows	The second group of alternating rows.
Hovered Row	The row that the user mouses over.
Focused Row	The row that is in focus.
Selected Rows	The selected rows. Only works if selection is enabled for this tree.

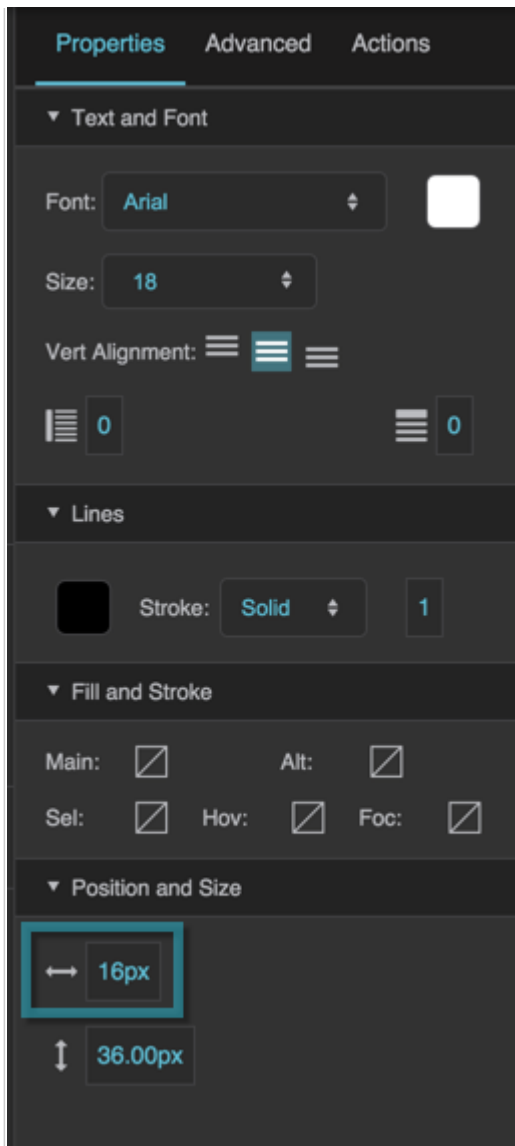


The Tree Items Fill properties

Tree Items Position and Size Properties

Indent

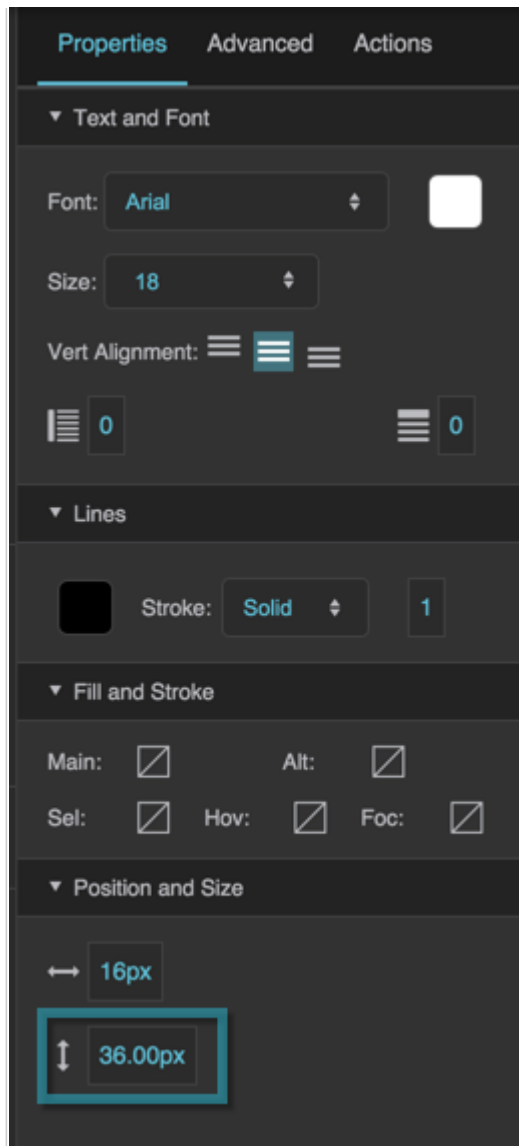
Defines the number of pixels by which each level in the tree is indented. If an image is specified for the **Open Item Icon** and **Close Item Icon** properties, then **Indent** also controls the width of this image.



The Indent property

Item Height

Defines the height of each item in the tree, in pixels.



The Item Height property

[Previous: Date Range Picker Properties](#)

[Next: Chart Properties](#)

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