

Axis Properties

These properties affect horizontal and vertical axes for charts.

For a guide to using charts, see [Designing Charts](#).



Axes can also be affected using [Effects properties](#).

Properties Advanced Actions

▼ Axis

Display:

Title:

Title Align:

Axis Placement:

Labels:

Font:

Size: *I* **B** U

Vertical Alignment:

Label Gap:

Label To Title Gap:

Label to Edge Gap:

Label Rotation:

Use div Labels

Line: Stroke:

Inverted

Format String:

Auto Adjust Base At Zero

Major Ticks:

Color: Stroke: Width:

Minor Ticks:

Color: Stroke: Width:

Computed Minimum:

Computed Maximum:

Computed Interval:

Symbols Outline

Stage

Area_Chart

Series

vAxes

AxisRenderer1

Axis properties in the Property Inspector

Video Tutorial: Auto Adjust Property

More video tutorials are [here](#).

Click to display/hide all elements

Visible

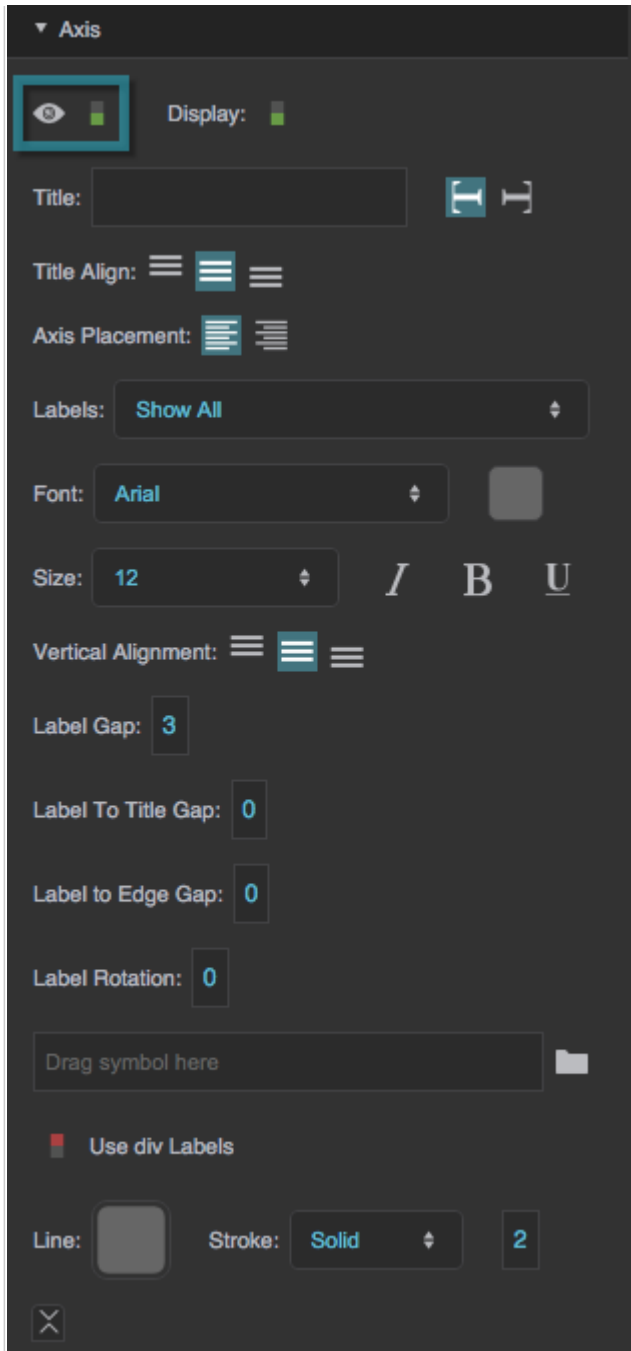
Defines whether this element is visible. Regardless of value, the element affects layout and is stored in the user's browser memory. Because the element is stored in memory, performance might be affected.

TRUE

This element is visible.

FALSE

This element is not visible, but it still affects layout and is stored in browser memory.



The Visible property

Display

Defines whether this element is displayed. If it is not displayed, the component does not affect layout. However, regardless of value, the element is stored in the user's browser memory. Performance might be affected as a result.

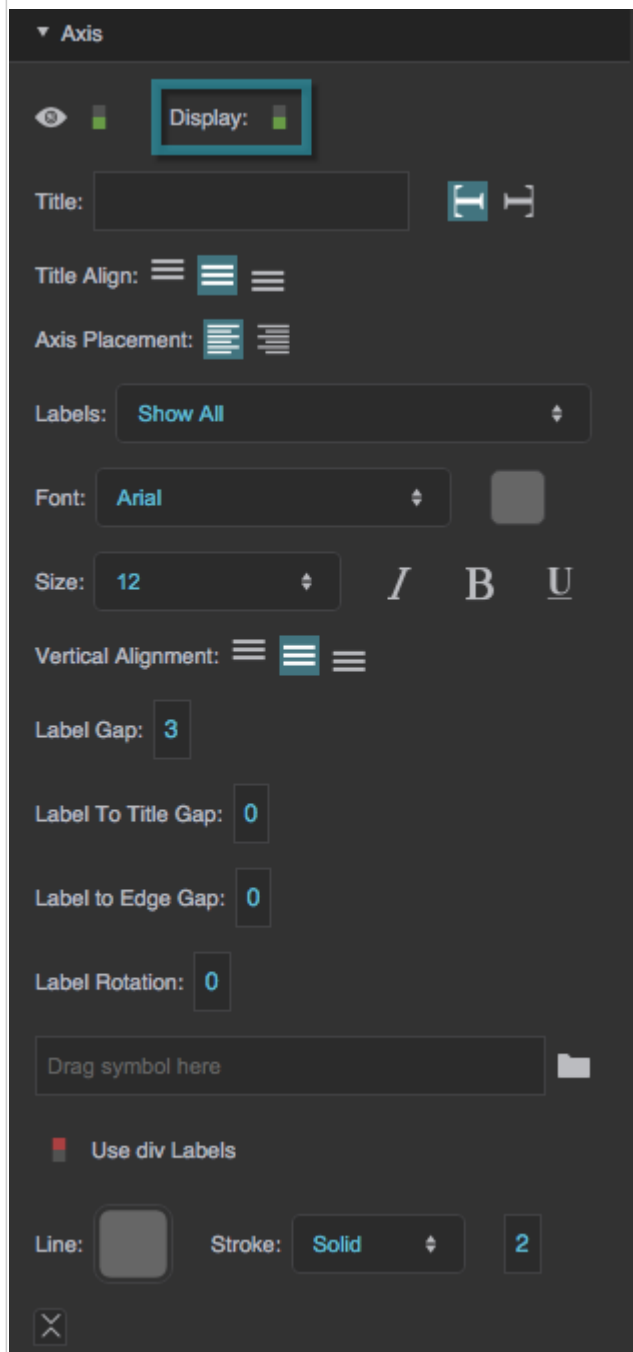
TRUE

This element is displayed, and it affects layout.

FALSE

This element is not displayed, and it does not affect layout. The element remains stored in browser

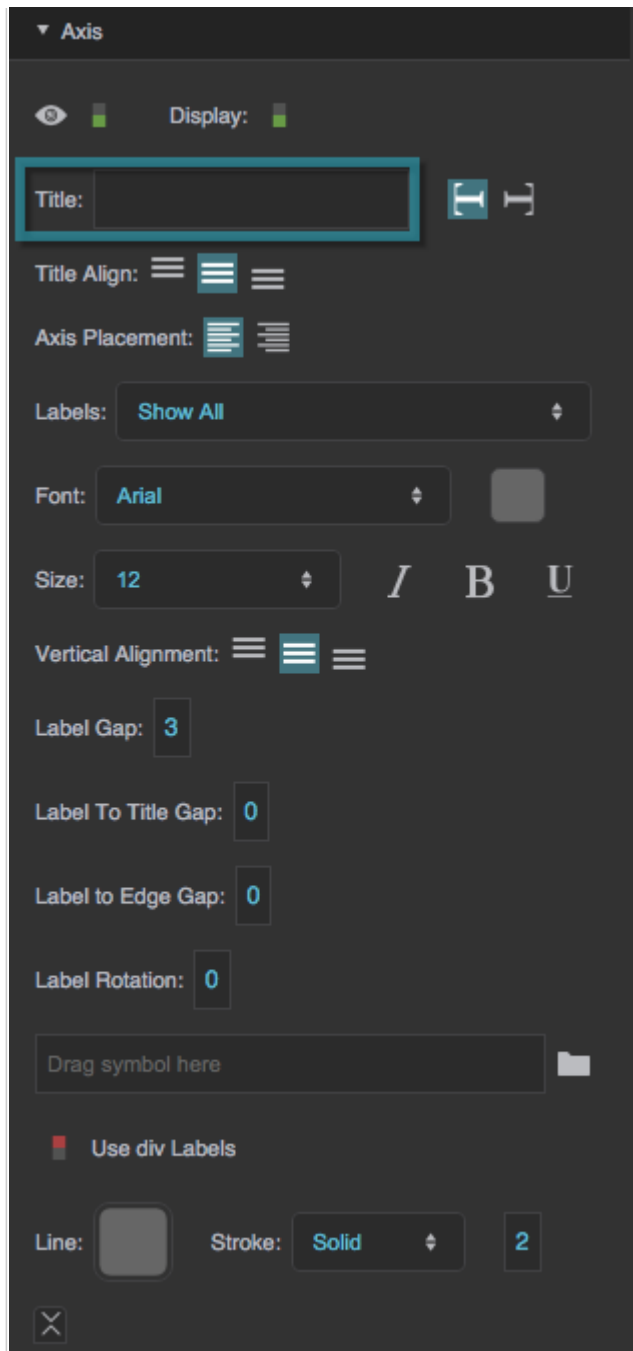
memory.



The Display property

Title

Defines the title text for this axis. This text appears as an axis title label.



The Title property

Vertical Axis Title Orientation

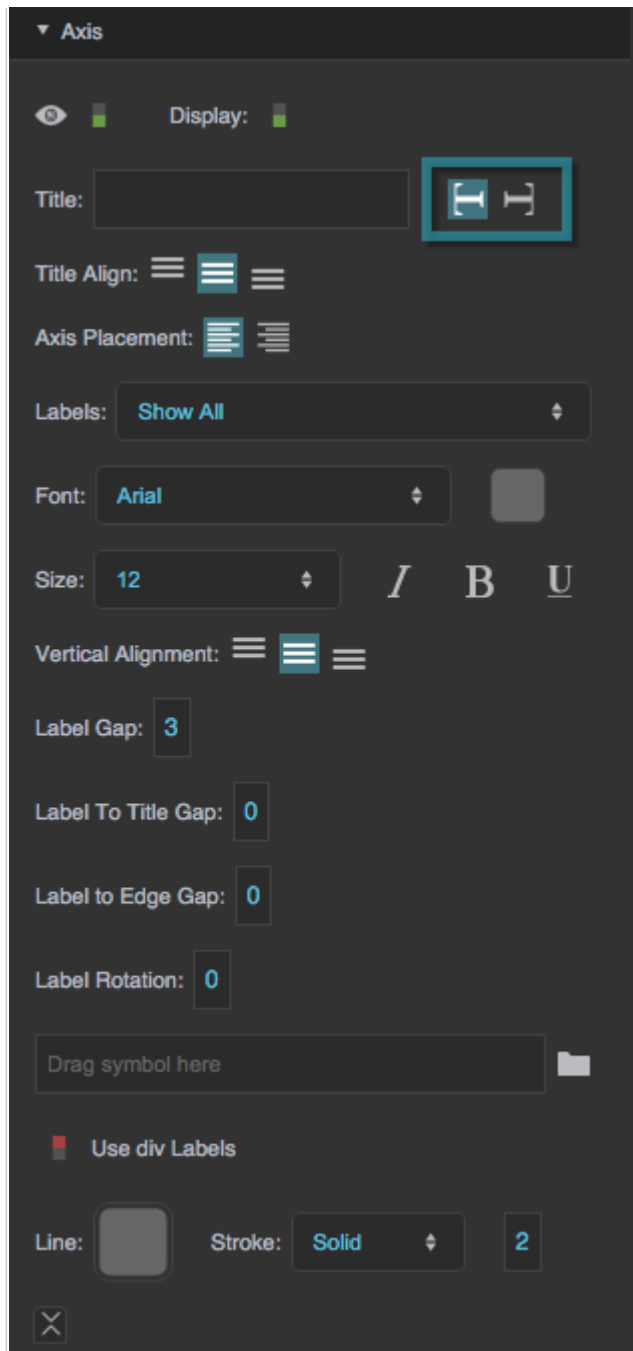
Controls axis title orientation for a vertical axis. Orientation can be either Vertical or Flipped Vertical. You might want to select Vertical if the axis is on the left of the chart, and Flipped Vertical if the axis is on the right.

The screenshot shows a software interface with a dark theme. On the left, there is a breadcrumb trail: "Stage > Area_Chart > vAxes > AxisRenderer1". Below this is a preview window showing an area chart with a vertical axis on the left. The axis is labeled "Number of Units" and has a scale from 0 to 60. The chart has two data series, one in orange and one in blue. On the right, there is a properties panel with tabs for "Properties", "Advanced", and "Actions". The "Properties" tab is active. The "Title" is "Number of Units". The "Title Align" is set to center. The "Font" is "Verdana" and the "Size" is "12". The "Axis Placement" is set to the left. The "Outline" and "Symbols" sections are also visible.

The axis is placed on the left, and the Axis Title Orientation is set to Vertical.

This screenshot is similar to the first one, but the axis is now on the right side of the chart. The axis title "Number of Units" is oriented vertically and flipped. The properties panel on the right shows "Axis Placement" set to the right and "Title Orientation" set to Flipped Vertical. The breadcrumb trail and chart data are the same as in the first screenshot.

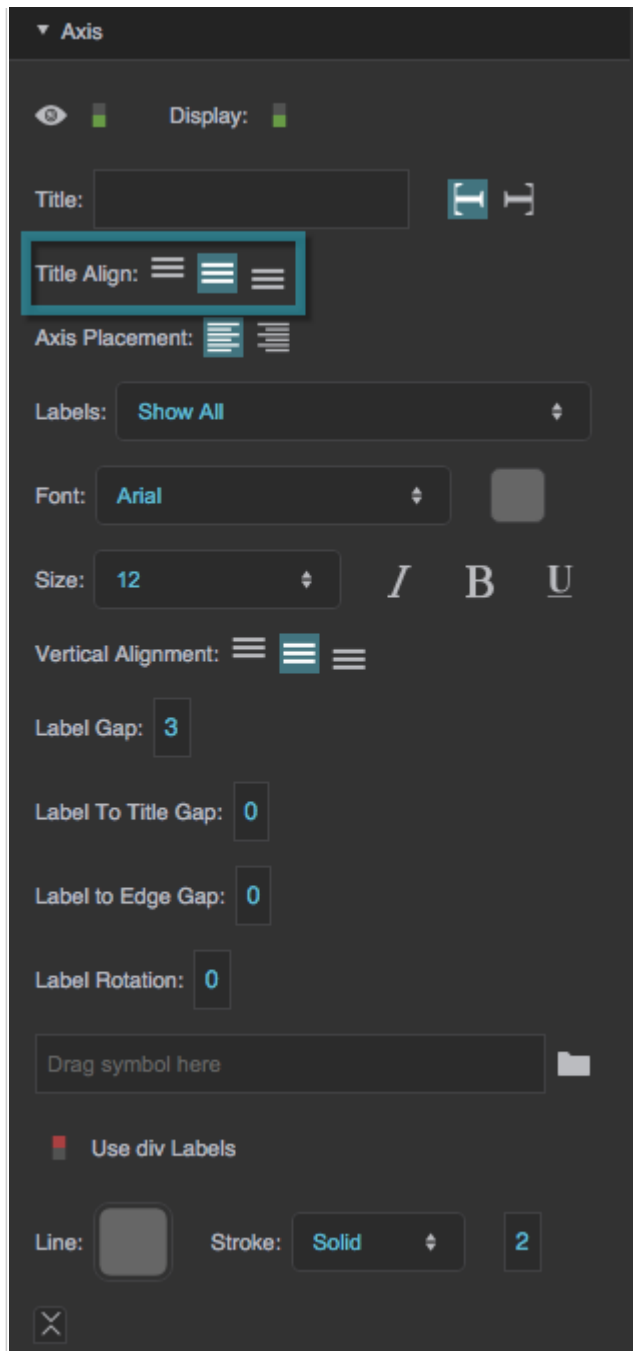
Changing the Axis Placement moves the axis to the right side, and changing the Axis Title Orientation to Flipped Vertical changes the orientation of the text.



The Vertical Axis Title Orientation property

Title Alignment

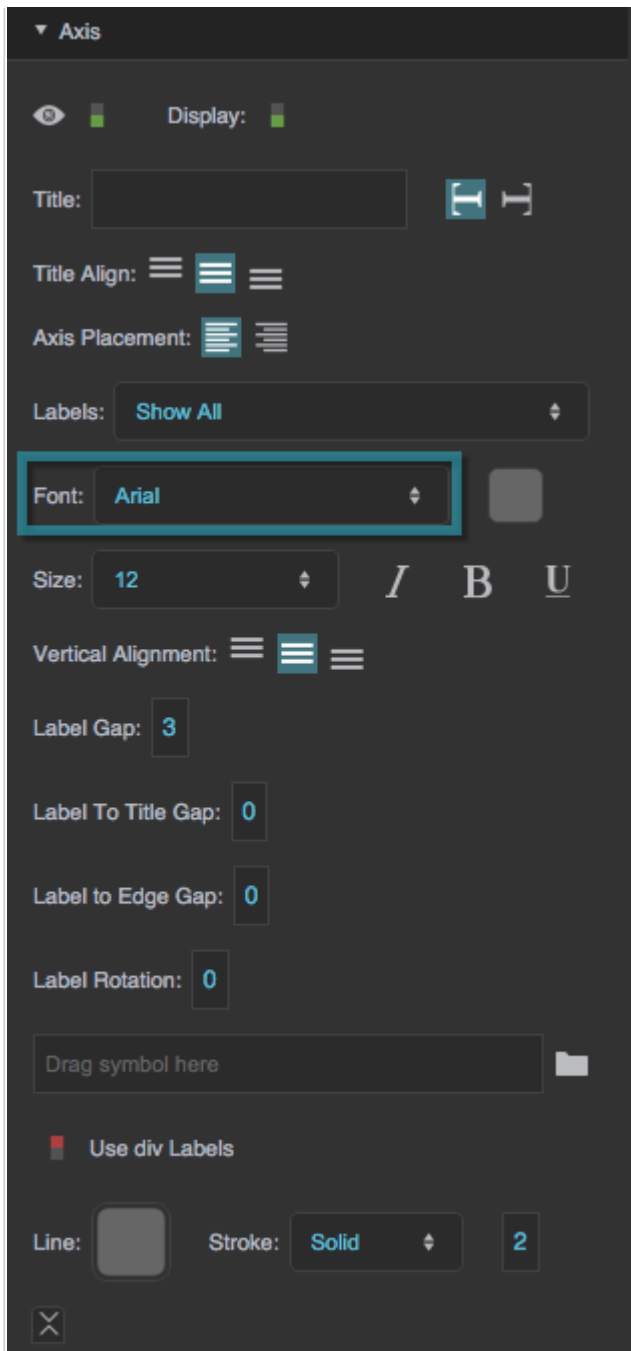
For a vertical axis, specifies whether the axis title is aligned to the top, bottom, or center of the axis. For a horizontal axis, specifies whether the axis title is aligned to the left, right, or center of the axis.



The Title Alignment property

Font

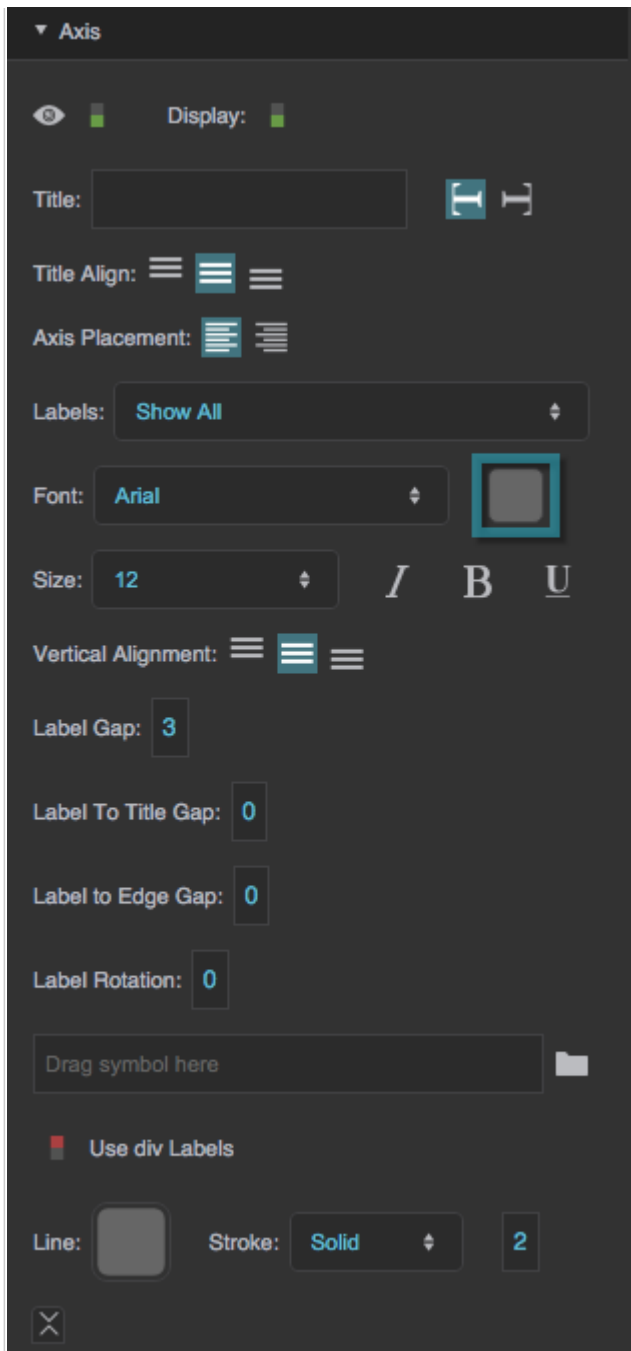
Defines the font used for the labels along this axis. To add a font to this project and use it for this property, see [Text Component Properties](#).



The Font property

Font Color

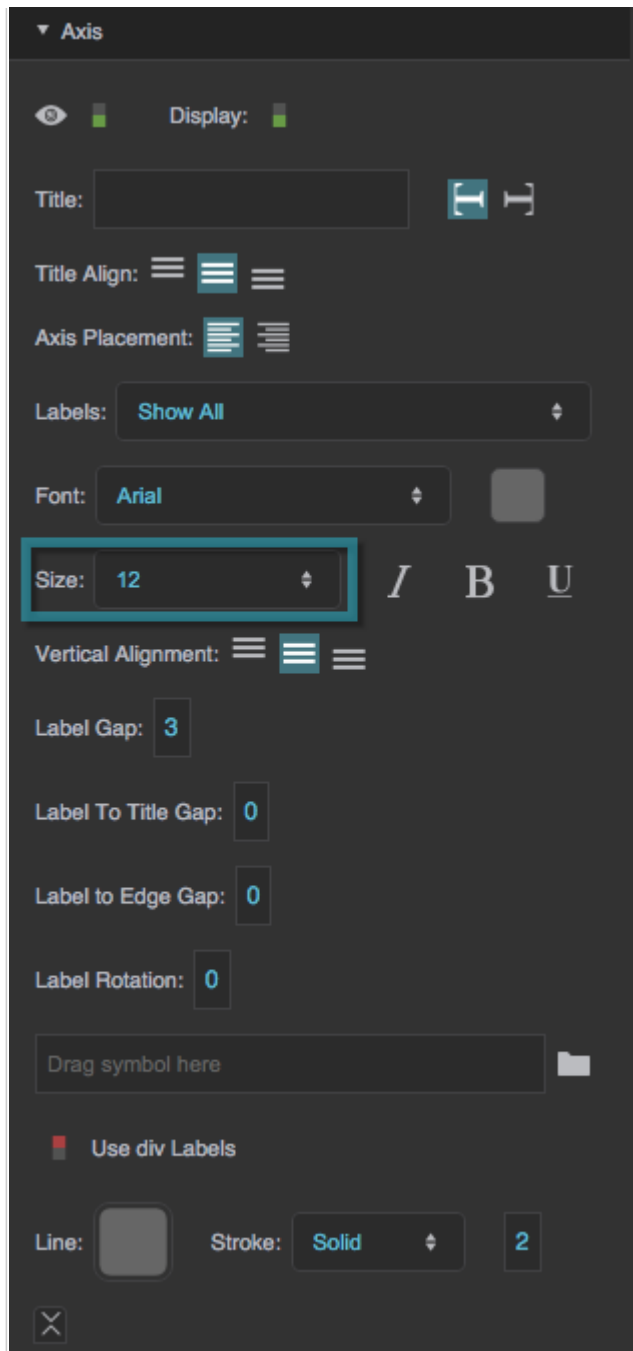
Defines the font color used for the labels along this axis.



The Font Color property

Font Size

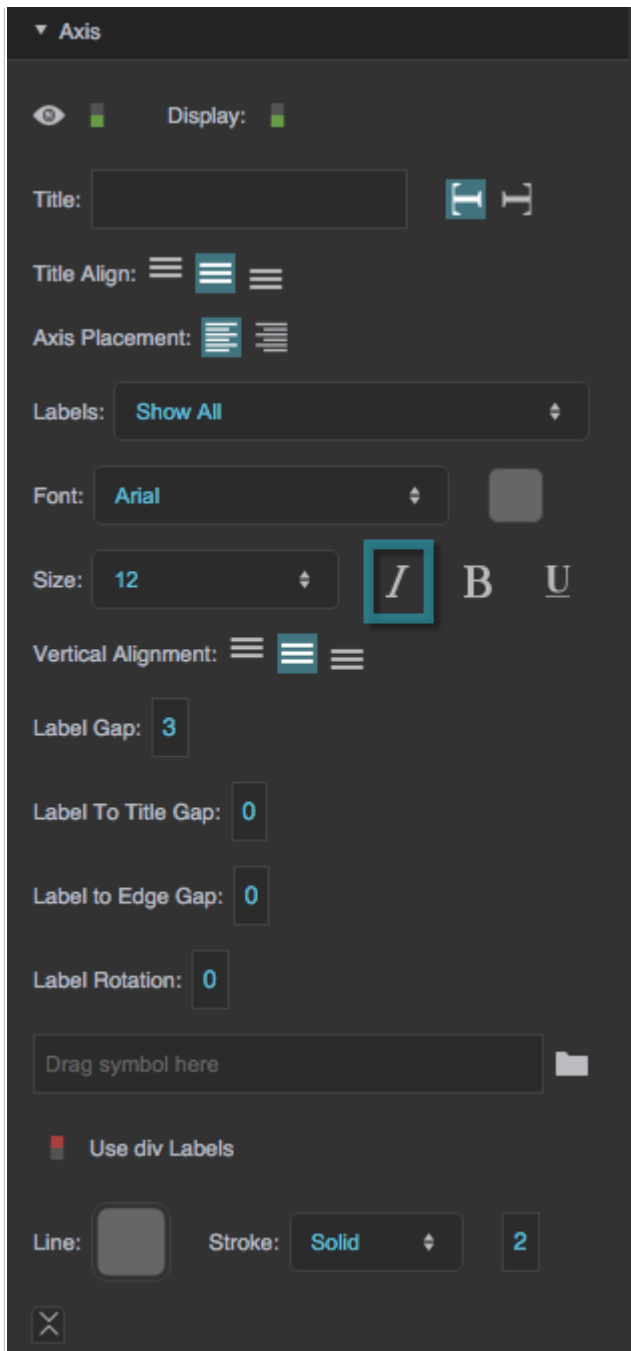
Defines the font size used for the labels along this axis.



The Font Size property

Italic

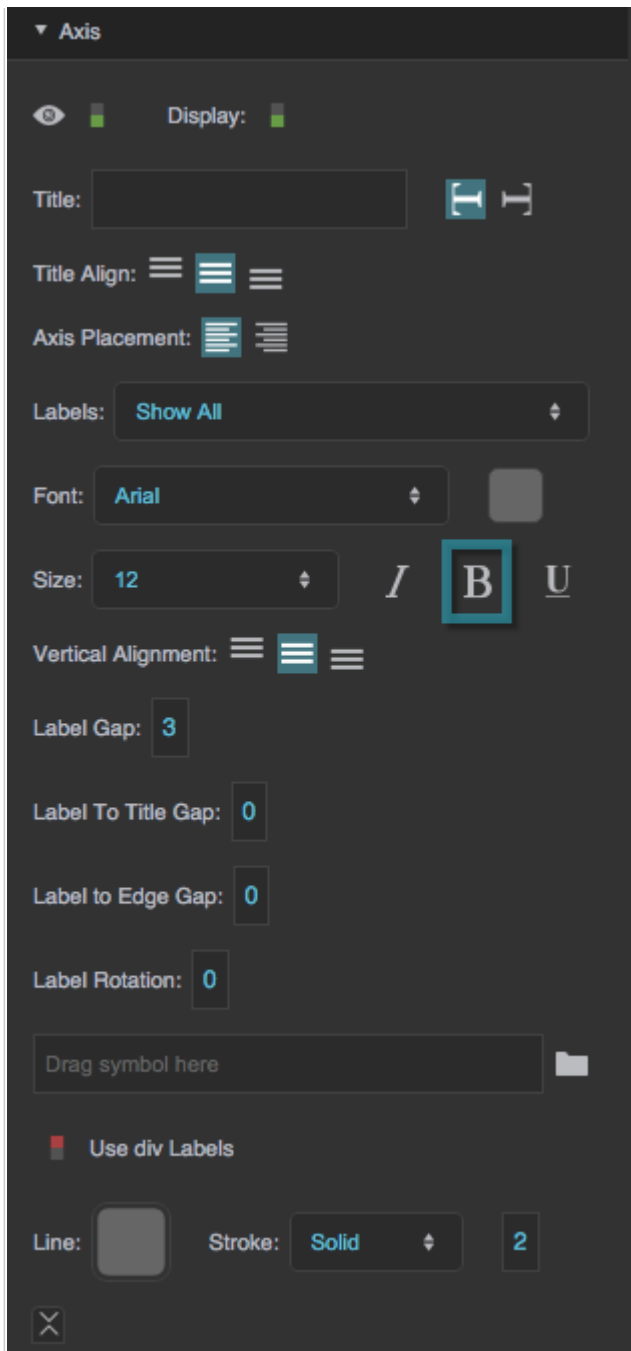
Defines whether labels along this axis are italicized.



The Italic property

Bold

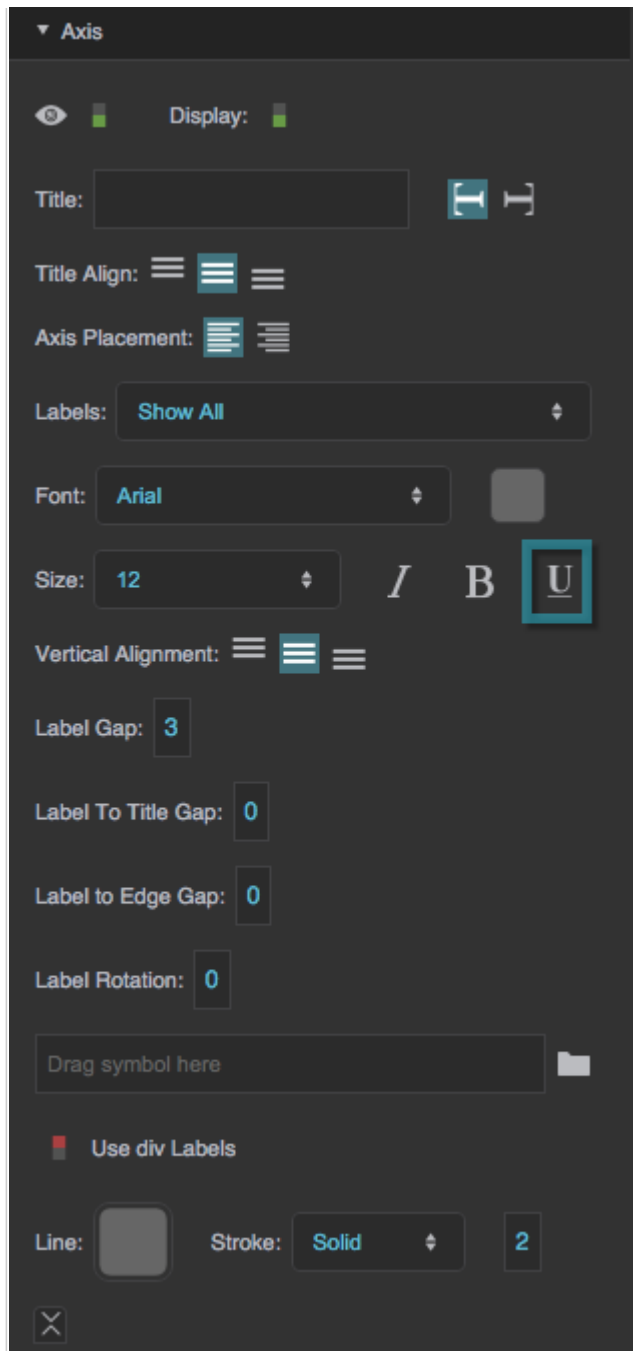
Defines whether labels along this axis are bold.



The Bold property

Underline

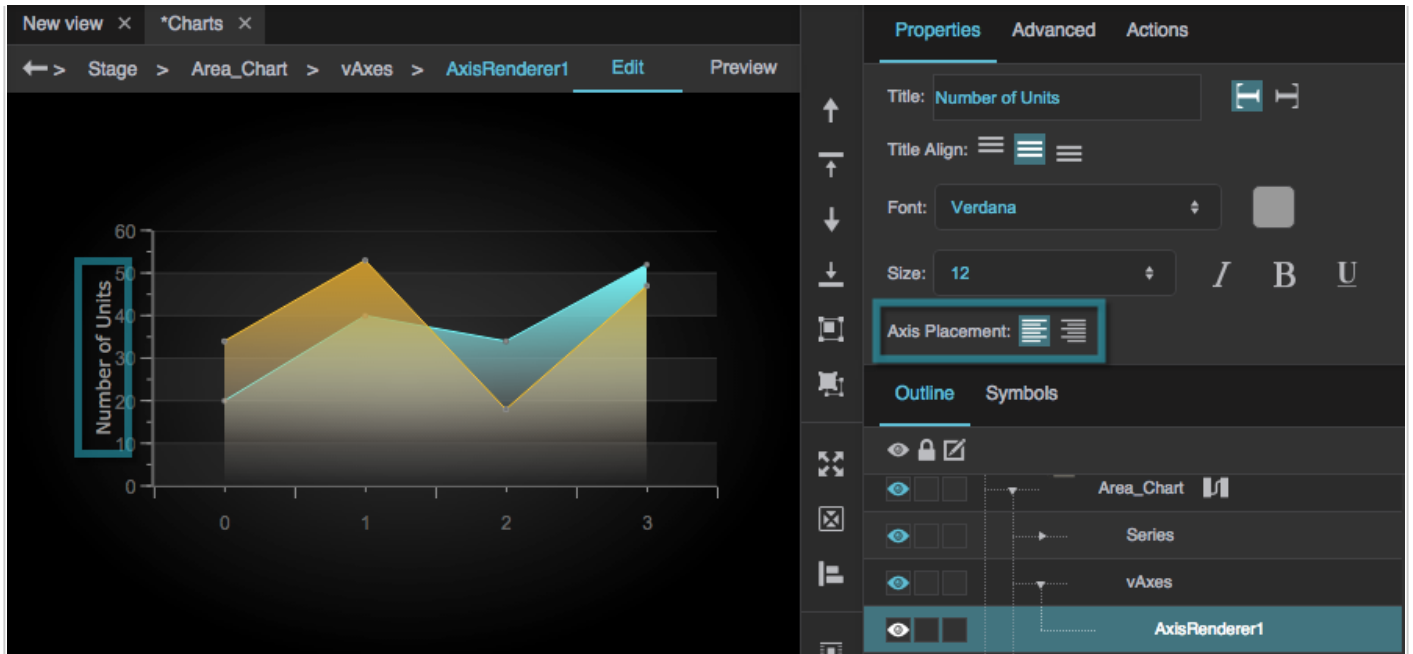
Defines whether labels along this axis are underlined.



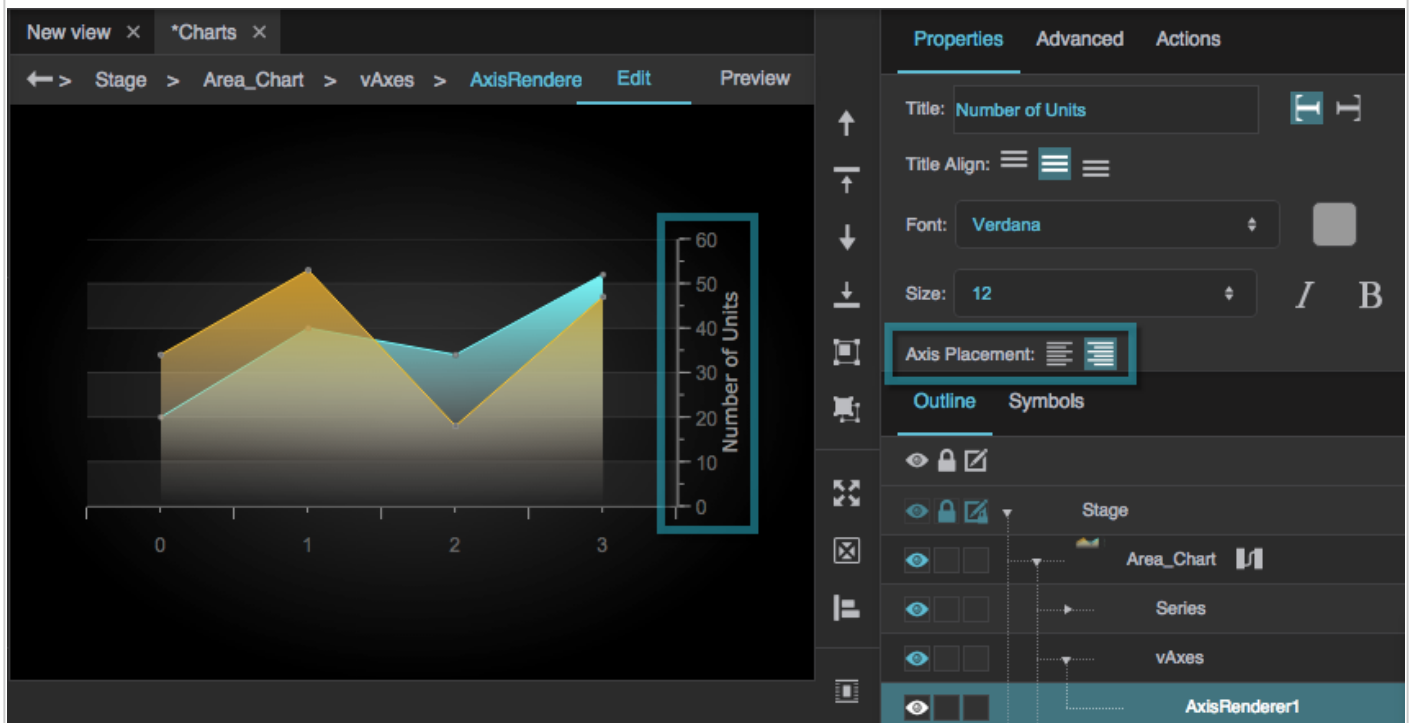
The Underline property

Axis Placement

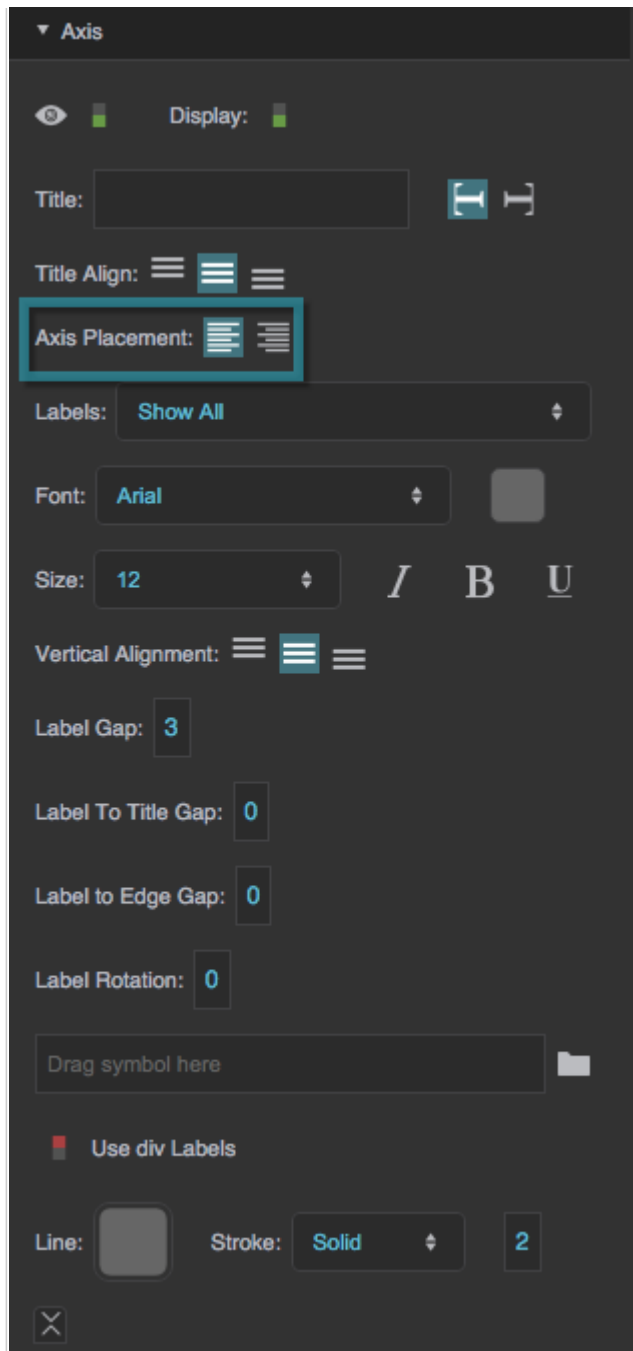
For a vertical axis, specifies whether the axis is positioned on the left or the right of the chart. For a horizontal axis, specifies whether the axis is positioned on the top or the bottom of the chart.



The axis is placed on the left.



The axis is placed on the right.



The Axis Placement property

Labels

Specifies how many labels appear along the axis.

None

No labels appear.

Min Max

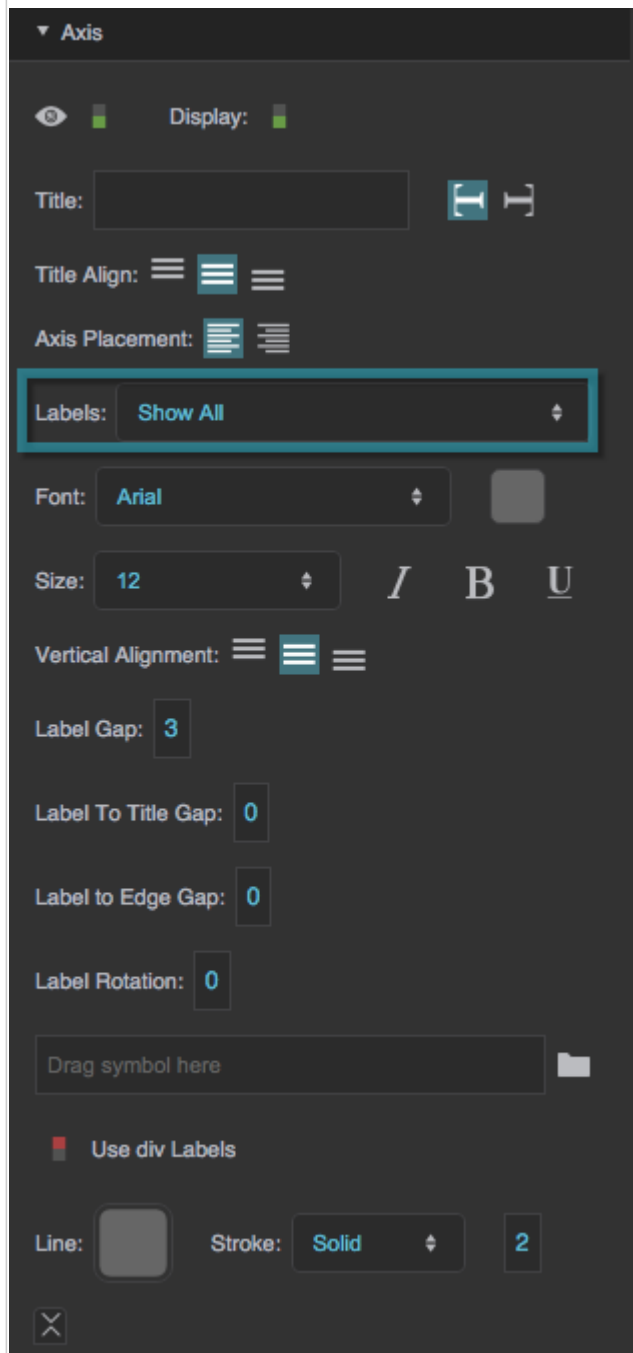
Only the minimum and maximum labels appear.

Auto

The number of labels depends on the amount of available space.

Show All

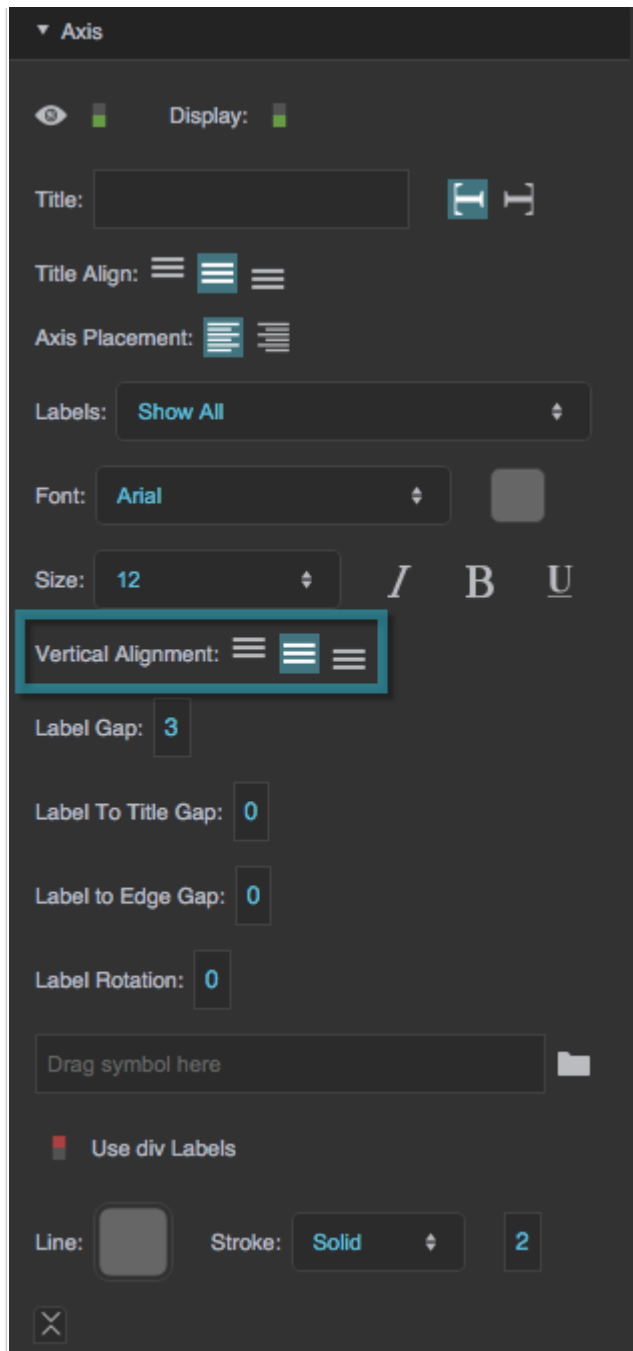
A label appears for every major tick.



The Labels property

Label Vertical/Horizontal Alignment

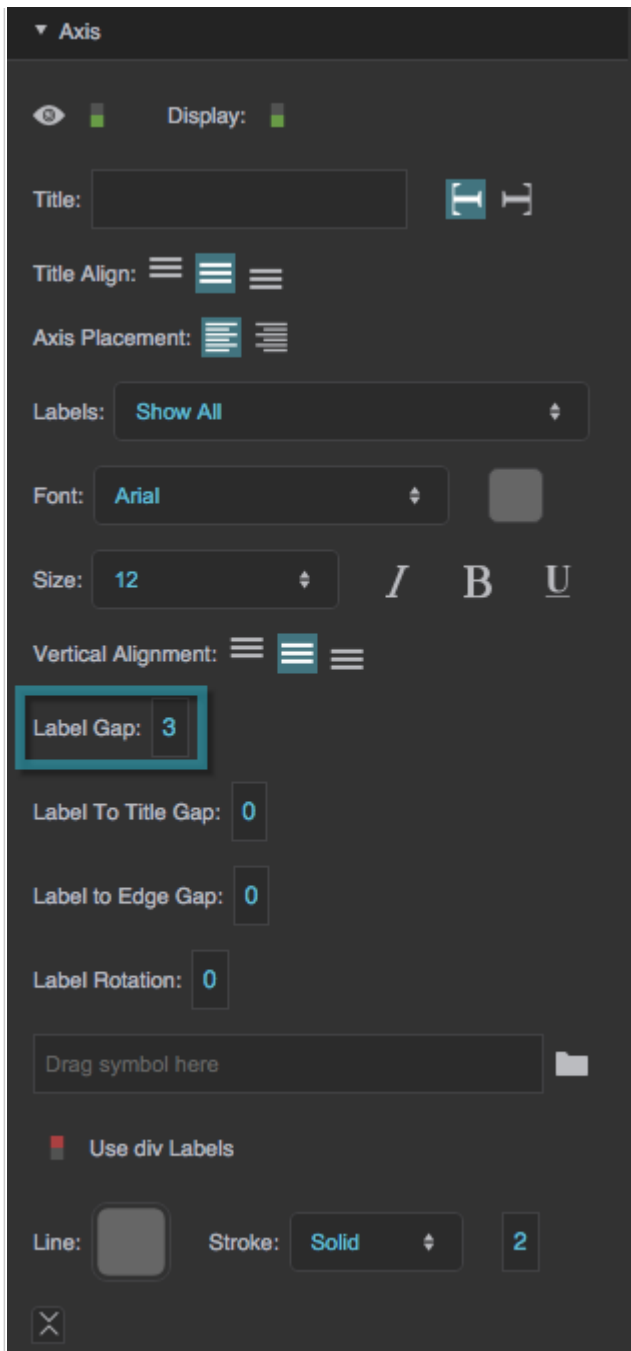
For a vertical axis, determines whether the labels are aligned vertically to the top, middle, or bottom of the major ticks. For a horizontal axis, determines whether the labels are aligned to the left, center, or right of the major ticks.



The Label Vertical Alignment property

Label Gap

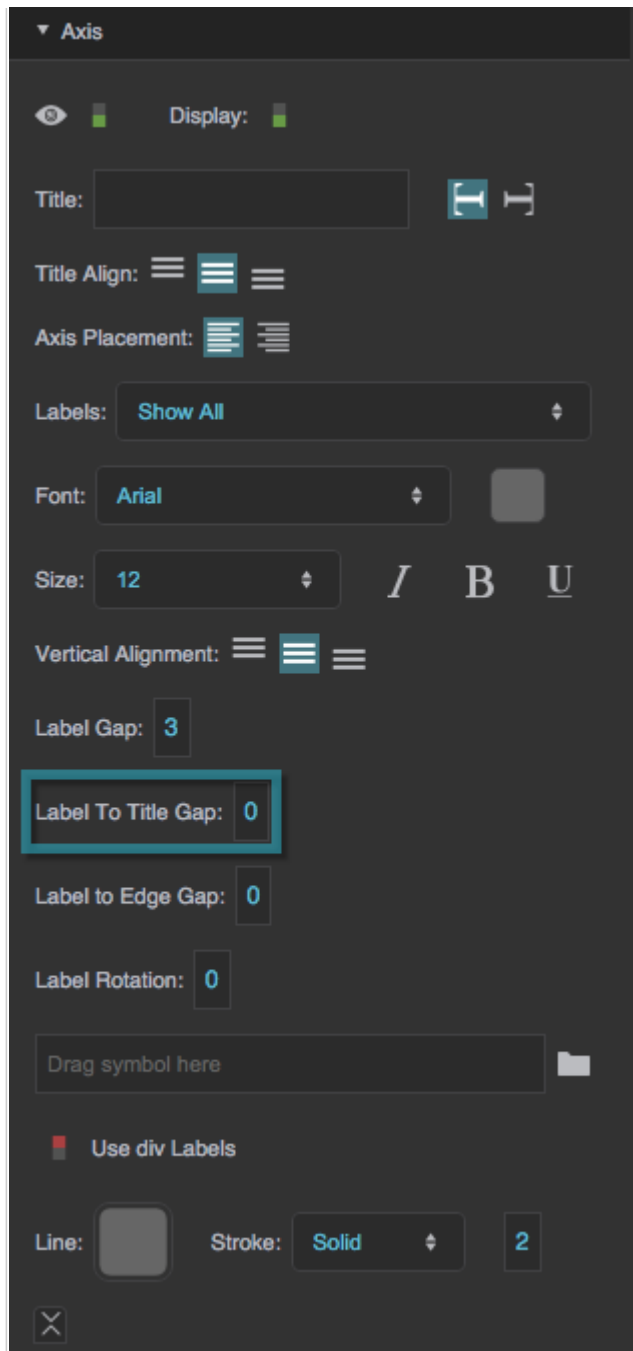
Defines the distance, in pixels, between the major tick marks and the labels for this axis.



The Label Gap property

Label to Title Gap

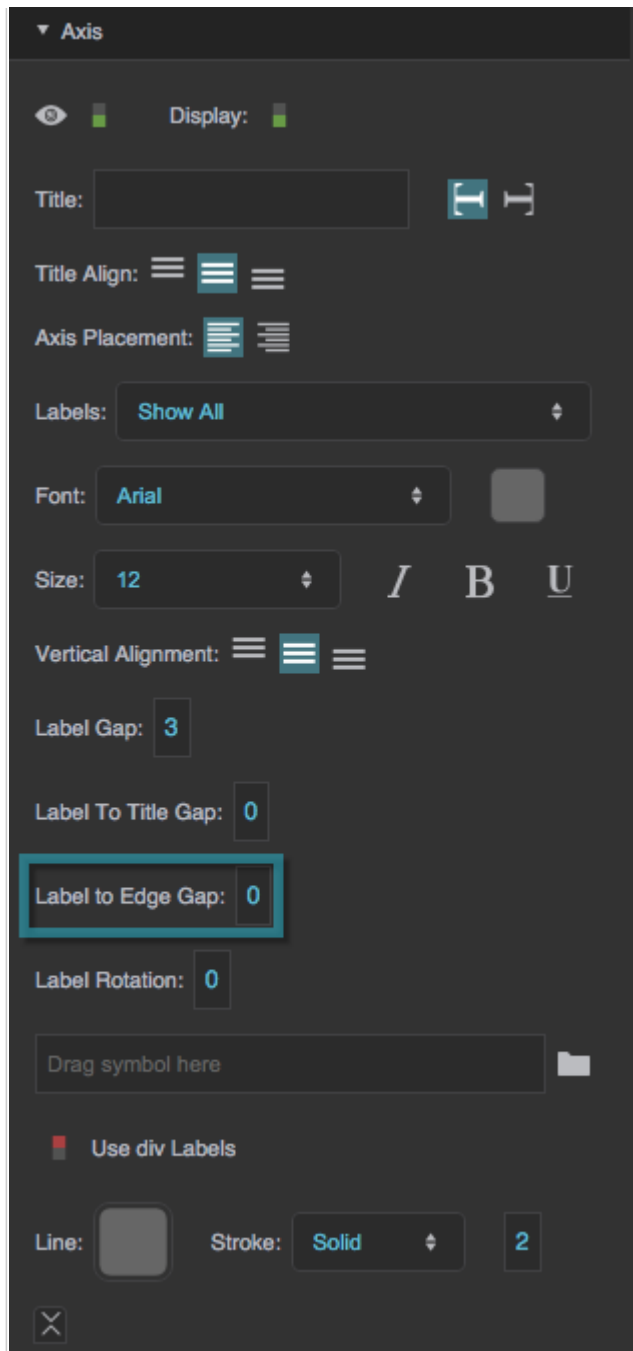
Defines the distance, in pixels, between the axis title and the axis labels.



The Label to Title Gap property

Label to Edge Gap

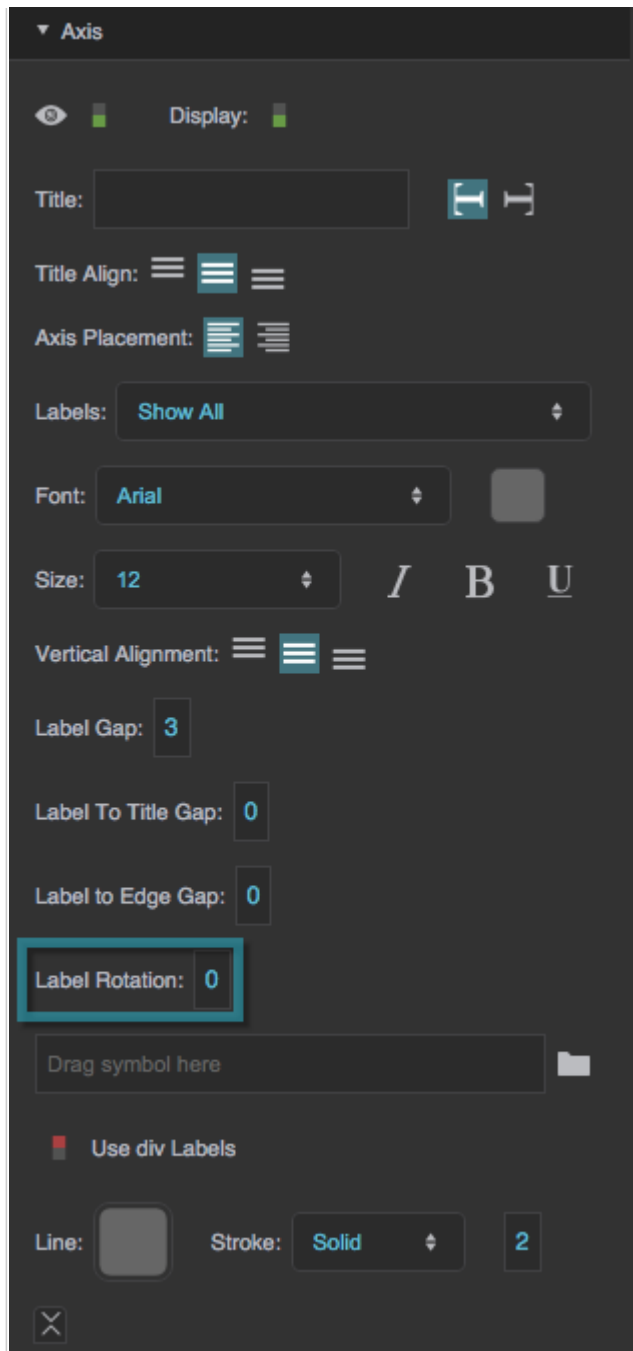
Defines the distance, in pixels, between the chart container and the labels for this axis.



The Label to Edge Gap property

Label Rotation

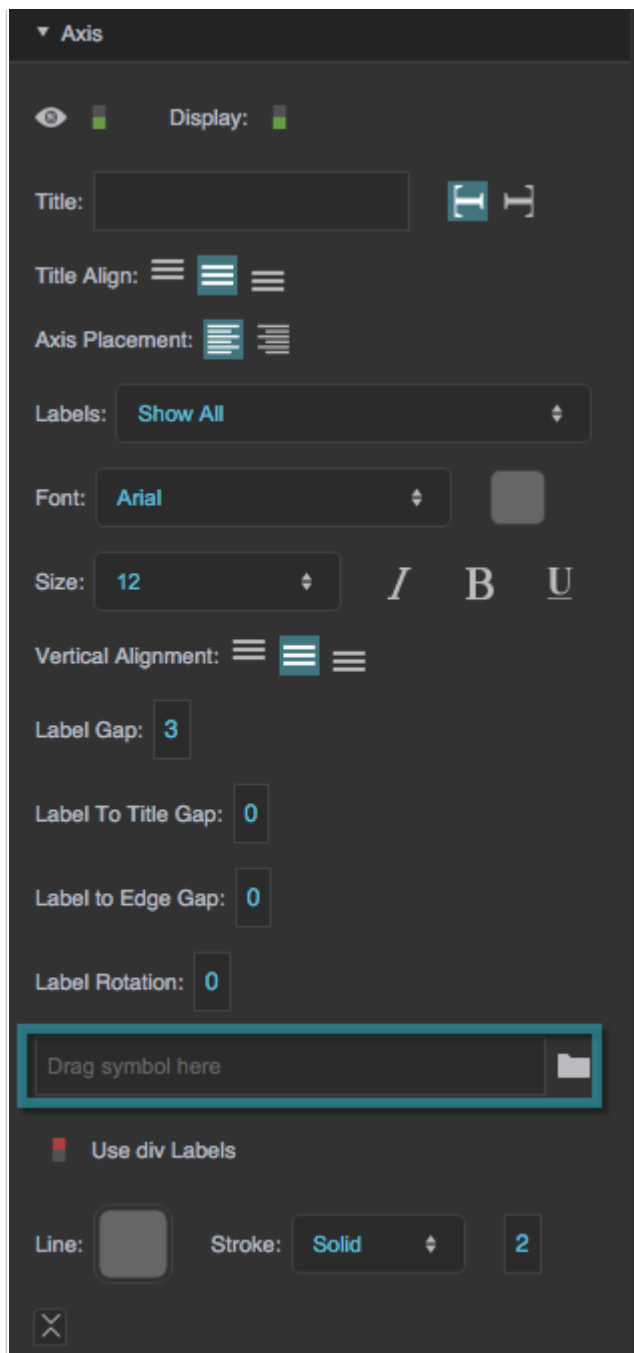
Defines the angle of rotation for the labels on this axis. Valid values are between -90 and 90 .



The Label Rotation property

Label Symbol

Specifies the symbol to use for a custom label renderer.



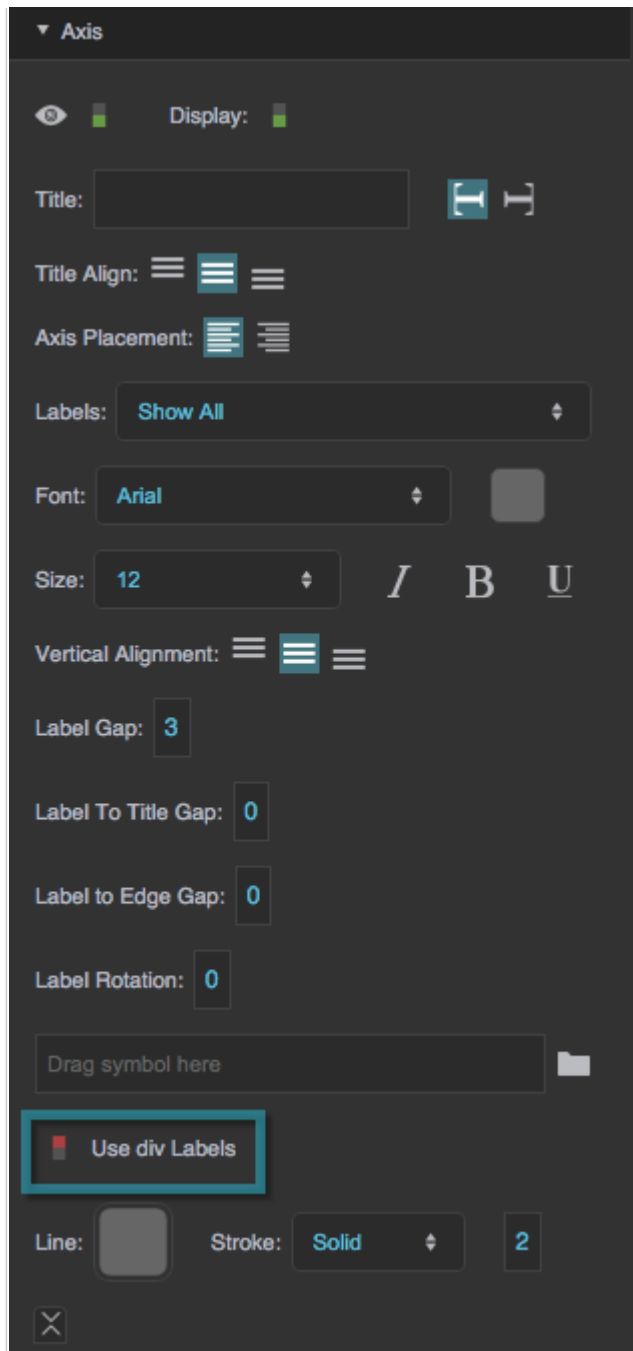
The Label Symbol property

Use div Labels

Specifies whether the labels along an axis are coded as `<div>` elements, thereby allowing multiline text and HTML tags. By default, labels are rendered as SVG text elements, which are faster but support fewer formatting options.



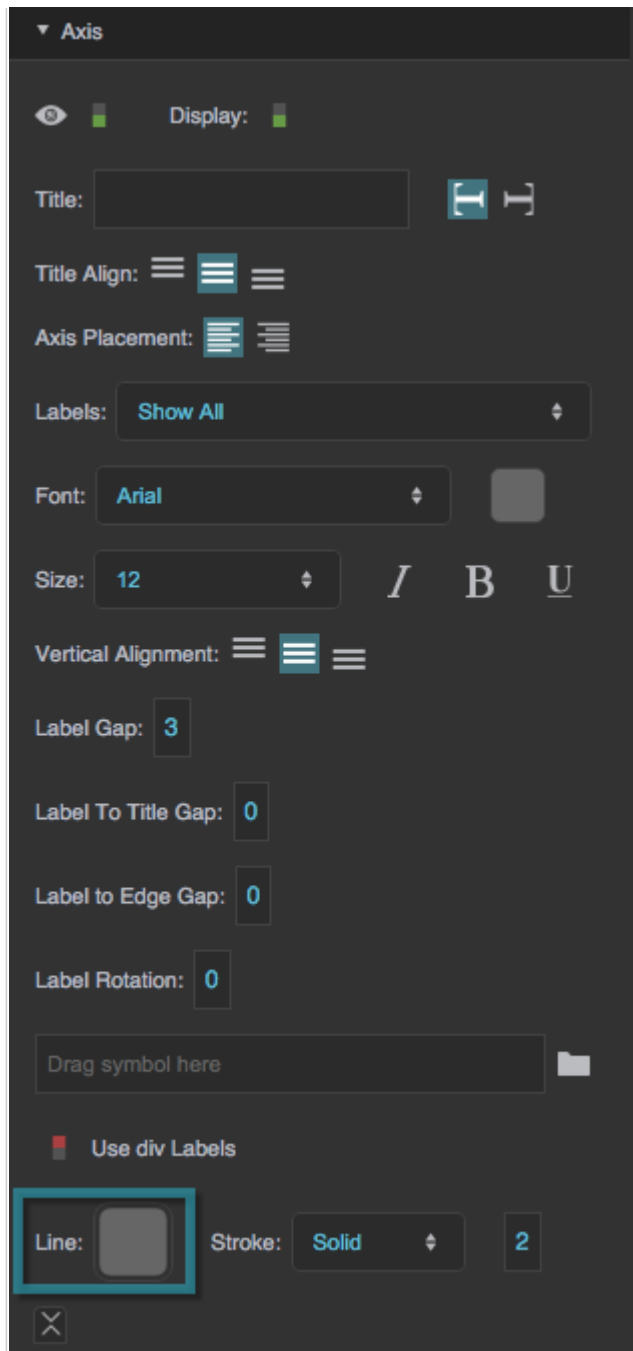
An example of HTML content used as a div label



The Use div Labels property

Axis Stroke Color

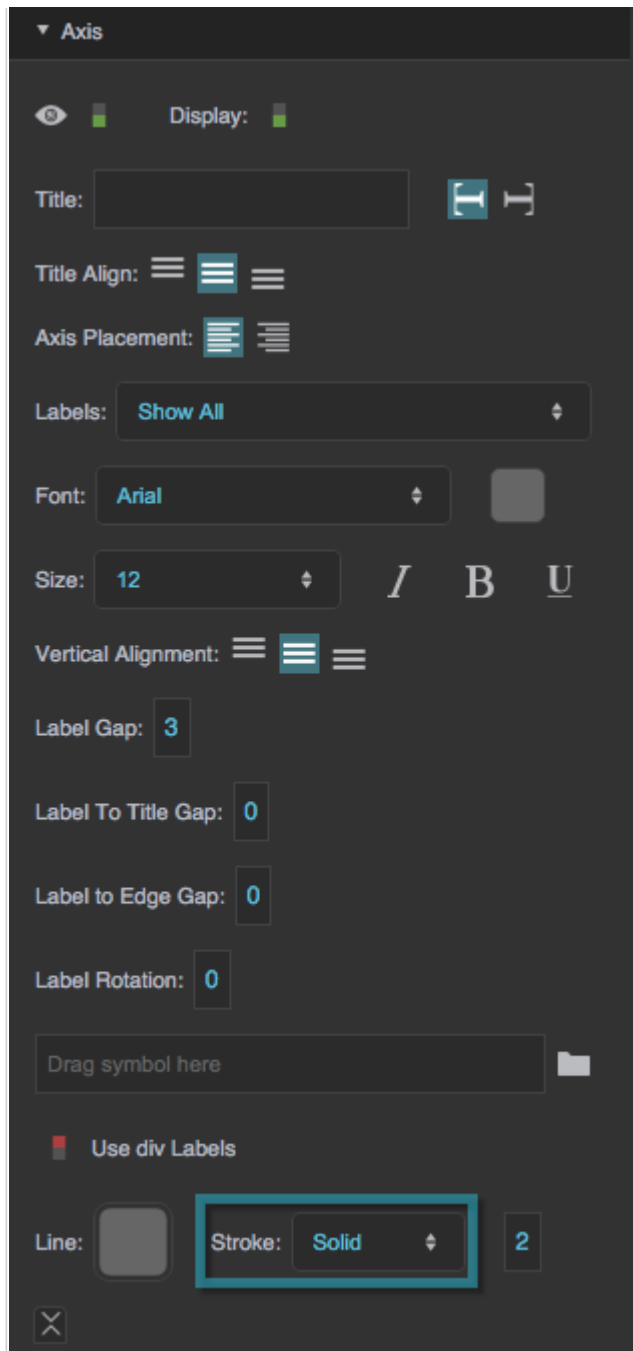
Defines the color of the line that represents this axis.



The Axis Stroke Color property

Axis Stroke Style

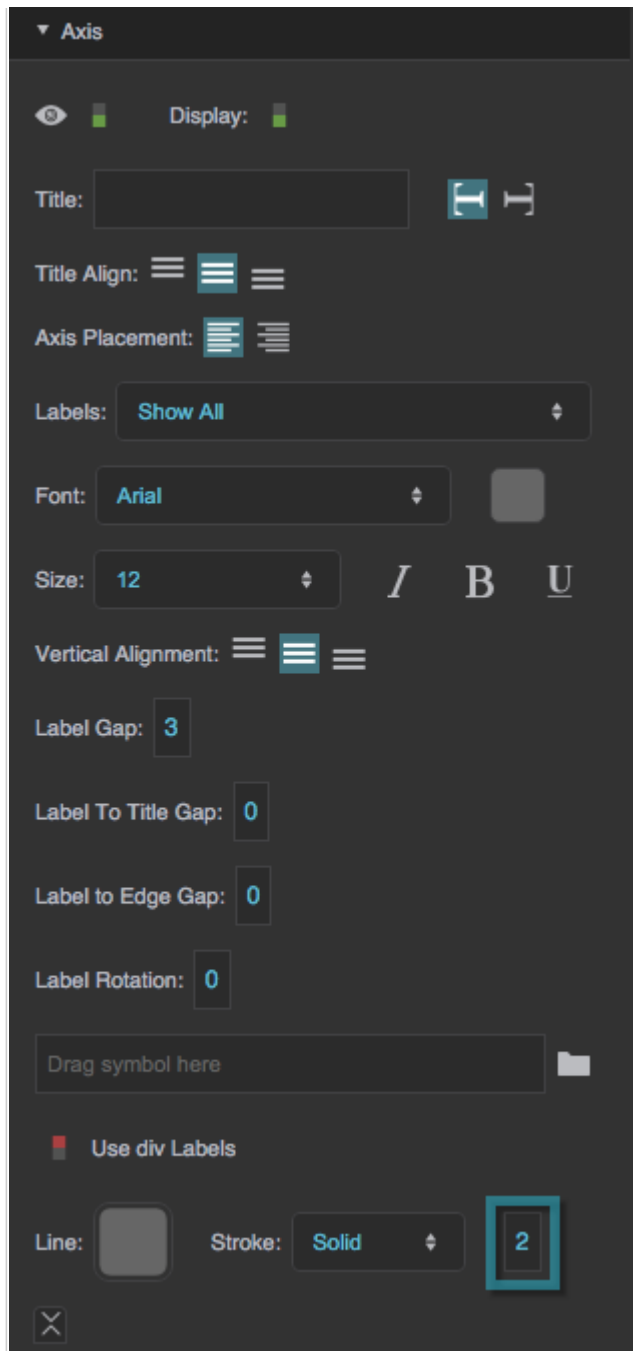
Defines the stroke style of the line that represents this axis.



The Axis Stroke Style property

Axis Stroke Weight

Defines the stroke weight of the line that represents this axis.



The Axis Stroke Weight property

Axis Type

Defines the scale type of an axis.

Linear Axis

The axis represents linearly increasing values.

Log Axis

The axis represents logarithmically increasing values. You might want a logarithmic axis if your data has a large range.

Datetime Axis

The axis represents linearly progressing date and time.

Category axis

The axis uses categories instead of a scale. Use a category axis when the data's linear progression doesn't matter, or when there is no way to interpret the data as a number or a date.

Axis Type: Linear Axis

Inverted

Format String:

Auto Adjust Base At Zero

Min: NaN Max: NaN

Major Interval: NaN

Major Ticks: Outside

Color: Stroke: 1 Width: 7

Minor Interval: NaN

Minor Ticks: Outside

Color: Stroke: 1 Width: 3

Computed Minimum: 0

Computed Maximum: 40.74

Computed Interval: 10.00

The Axis Type property

Inverted

Controls whether this axis is inverted.

TRUE

The smaller values appear at the top if this axis is vertical, or the right if it is horizontal. For a category axis, the top values in the table appear at the top or right of the axis.

FALSE

The smaller values appear at the bottom or left of the axis. For a category axis, the top values in the

table appear at the bottom or left of the axis.

Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Interval: **NaN**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

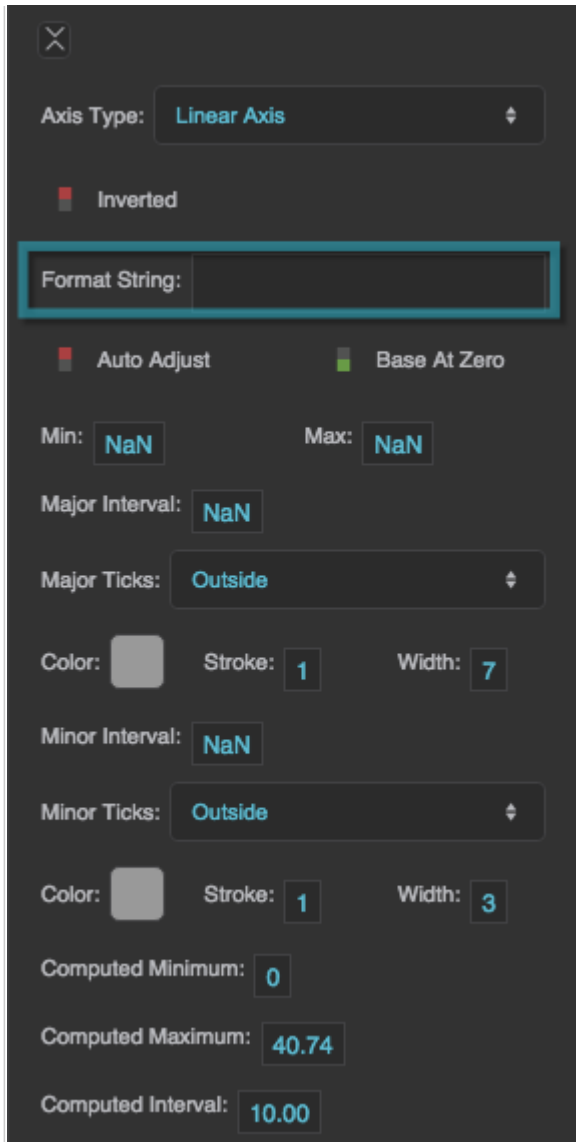
Computed Maximum: **40.74**

Computed Interval: **10.00**

The Inverted property

Format String

Defines the format used for the axis labels. For example, a Datetime axis might use the string "MM/dd/yyyy", and a number axis might use the string ",##0.00". See [here](#) for a complete list of formats.



Axis Type: Linear Axis

Inverted

Format String:

Auto Adjust Base At Zero

Min: NaN Max: NaN

Major Interval: NaN

Major Ticks: Outside

Color: Stroke: 1 Width: 7

Minor Interval: NaN

Minor Ticks: Outside

Color: Stroke: 1 Width: 3

Computed Minimum: 0

Computed Maximum: 40.74

Computed Interval: 10.00

The Format String property

Auto Adjust

Specifies whether the axis range and ticks intervals are determined automatically based on the data feeding the chart.

Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Interval: **NaN**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

Computed Maximum: **40.74**

Computed Interval: **10.00**

The Auto Adjust property

Base At Zero

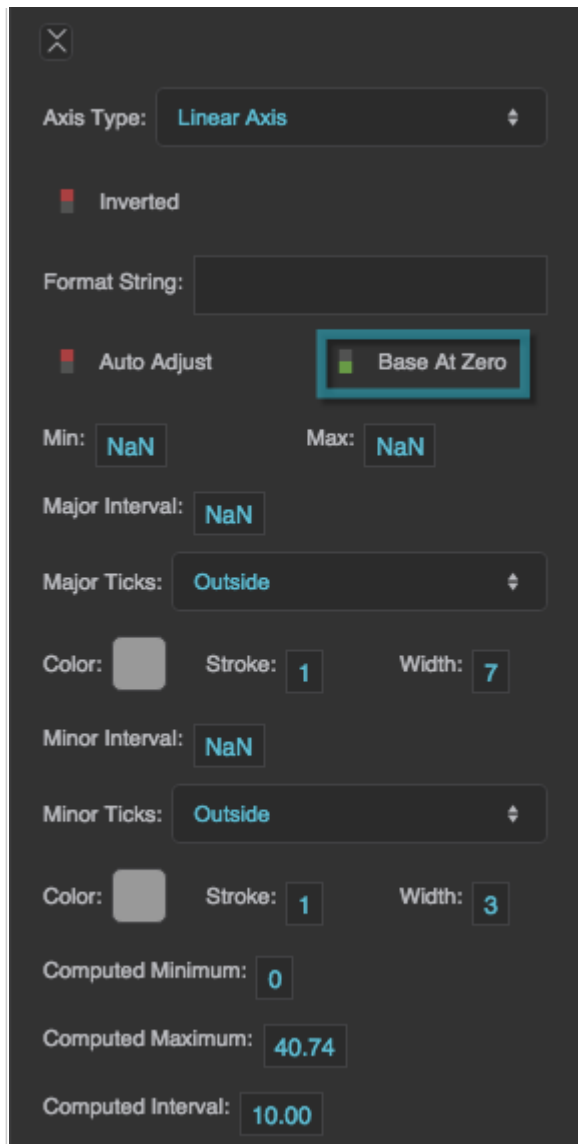
Allows you to change the axis range minimum to decrease unused space on the chart.

TRUE

The axis minimum is zero, unless there are negative data values on this axis. In that case, the axis minimum is equal to, or slightly below, the lowest data value.

FALSE

The axis minimum is equal to, or slightly below, the lowest data value.

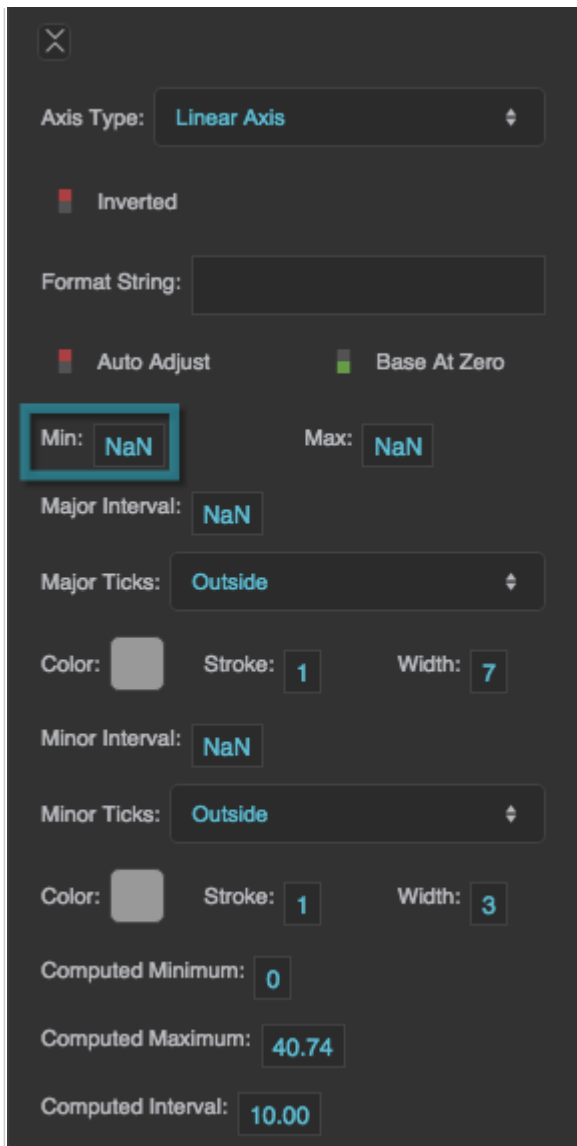


A screenshot of a dark-themed 'Axis Properties' dialog box. At the top left is a close button (X). The 'Axis Type' is set to 'Linear Axis'. There is an 'Inverted' checkbox which is unchecked. The 'Format String' field is empty. Below it, there are two checkboxes: 'Auto Adjust' (unchecked) and 'Base At Zero' (checked), with the latter highlighted by a red rectangular box. The 'Min' and 'Max' values are both 'NaN'. The 'Major Interval' is 'NaN'. The 'Major Ticks' are set to 'Outside'. There are two sets of styling options: one for major ticks with 'Color' (grey), 'Stroke' (1), and 'Width' (7); and another for minor ticks with 'Color' (grey), 'Stroke' (1), and 'Width' (3). At the bottom, 'Computed Minimum' is 0, 'Computed Maximum' is 40.74, and 'Computed Interval' is 10.00.

The Base At Zero property

Axis Minimum

Defines the minimum of the axis range.



Axis Properties dialog box showing various settings for an axis. The **Min** property is highlighted with a red box and shows **NaN**. Other properties include:

- Axis Type: Linear Axis
- Inverted
- Format String:
- Auto Adjust
- Base At Zero
- Min: NaN
- Max: NaN
- Major Interval: NaN
- Major Ticks: Outside
- Color: [Color Picker]
- Stroke: 1
- Width: 7
- Minor Interval: NaN
- Minor Ticks: Outside
- Color: [Color Picker]
- Stroke: 1
- Width: 3
- Computed Minimum: 0
- Computed Maximum: 40.74
- Computed Interval: 10.00

The Axis Minimum property

Axis Maximum

Defines the maximum of the axis range.

Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Interval: **NaN**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

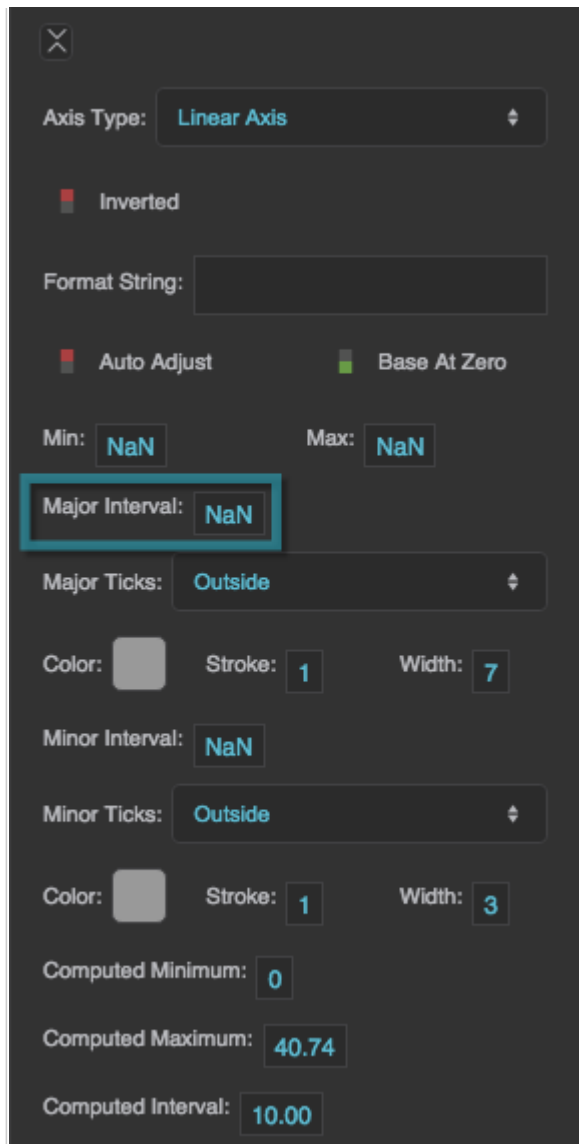
Computed Maximum: **40.74**

Computed Interval: **10.00**

The Axis Maximum property

Major Interval

Defines the interval between each consecutive pair of major ticks, in the units of the axis.



Axis Type: Linear Axis

Inverted

Format String:

Auto Adjust Base At Zero

Min: NaN Max: NaN

Major Interval: NaN

Major Ticks: Outside

Color: Stroke: 1 Width: 7

Minor Interval: NaN

Minor Ticks: Outside

Color: Stroke: 1 Width: 3

Computed Minimum: 0

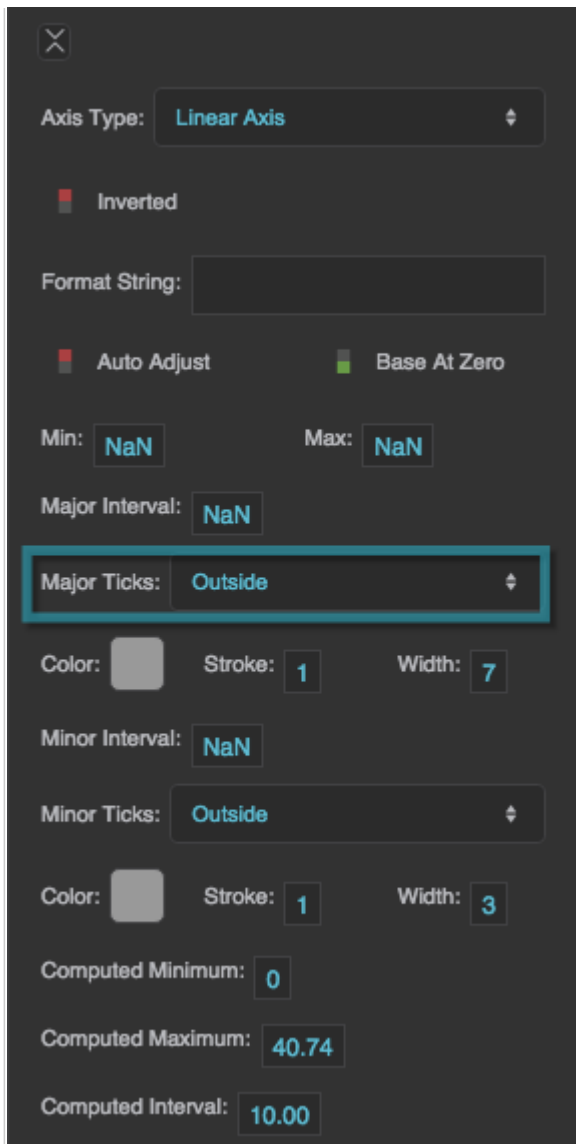
Computed Maximum: 40.74

Computed Interval: 10.00

The Major Interval property

Major Tick Placement

Specifies whether the major ticks appear on the inside, outside, or center of the line that represents this axis.



Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Interval: **NaN**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

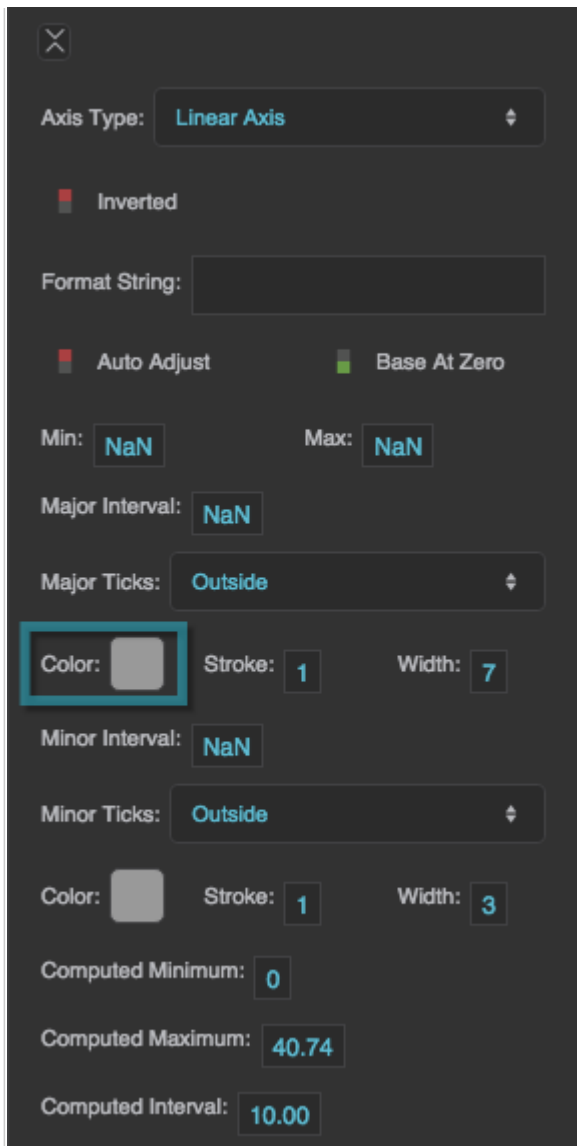
Computed Maximum: **40.74**

Computed Interval: **10.00**

The Major Tick Placement property

Major Tick Stroke Color

Defines the stroke color of the major ticks.

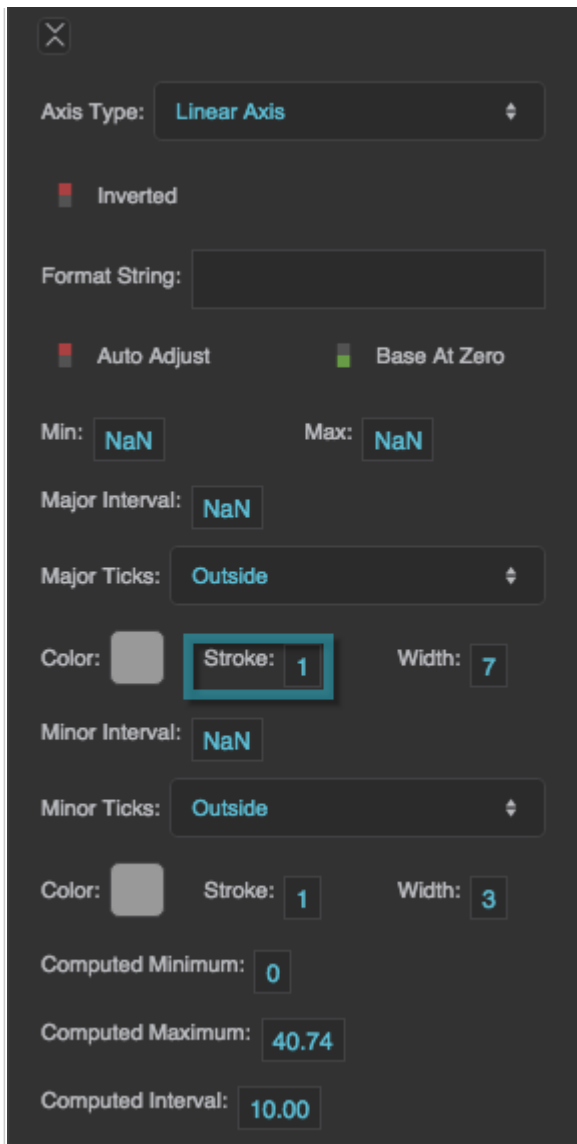


The image shows a dark-themed dialog box for 'Axis Properties'. At the top left is a close button (X). The 'Axis Type' is set to 'Linear Axis'. There are checkboxes for 'Inverted', 'Auto Adjust', and 'Base At Zero'. The 'Format String' field is empty. 'Min' and 'Max' are both set to 'NaN'. 'Major Interval' is 'NaN'. 'Major Ticks' is set to 'Outside'. The 'Color' property for the Major Tick Stroke is highlighted with a red box, showing a grey color swatch. 'Stroke' is 1 and 'Width' is 7. 'Minor Interval' is 'NaN'. 'Minor Ticks' is set to 'Outside'. Below that, another 'Color' property is shown with a grey swatch, 'Stroke' is 1, and 'Width' is 3. At the bottom, 'Computed Minimum' is 0, 'Computed Maximum' is 40.74, and 'Computed Interval' is 10.00.

The Major Tick Stroke Color property

Major Tick Stroke Weight

Defines the stroke weight of each major tick.

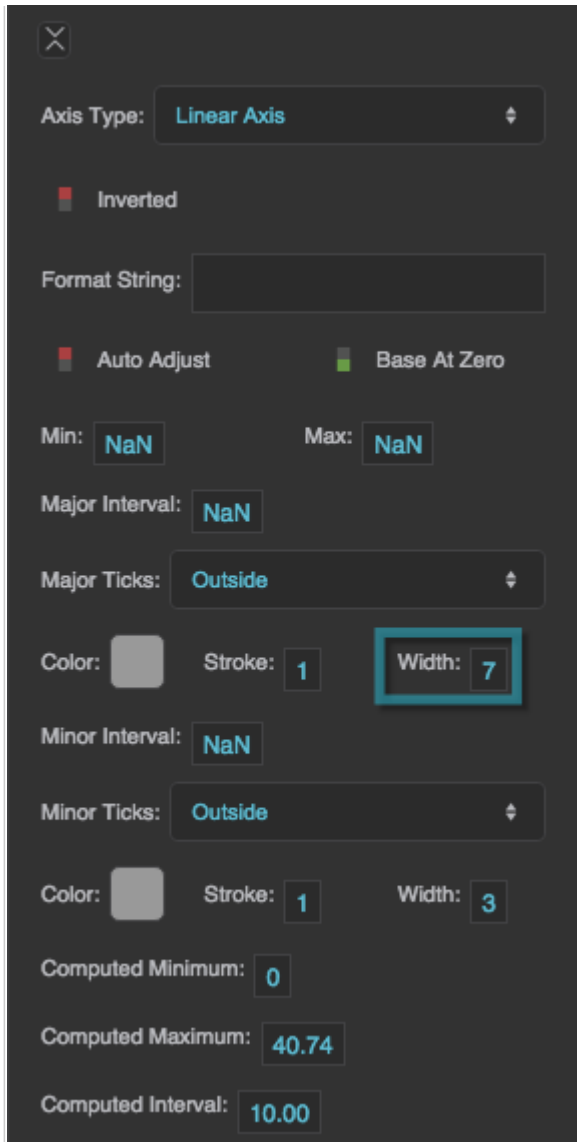


The image shows a dark-themed dialog box for configuring axis properties. At the top left is a close button (X). The 'Axis Type' is set to 'Linear Axis'. There are checkboxes for 'Inverted', 'Auto Adjust', and 'Base At Zero'. The 'Format String' field is empty. 'Min' and 'Max' are both set to 'NaN'. 'Major Interval' is 'NaN'. 'Major Ticks' is set to 'Outside'. The 'Major Tick' styling section shows a color swatch, a 'Stroke' value of 1 (highlighted with a red box), and a 'Width' of 7. The 'Minor Interval' is 'NaN'. 'Minor Ticks' is set to 'Outside'. The 'Minor Tick' styling section shows a color swatch, a 'Stroke' value of 1, and a 'Width' of 3. At the bottom, 'Computed Minimum' is 0, 'Computed Maximum' is 40.74, and 'Computed Interval' is 10.00.

The Major Tick Stroke Weight property

Major Tick Length

Defines the length of each major tick.



Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** **Width: 7**

Minor Interval: **NaN**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

Computed Maximum: **40.74**

Computed Interval: **10.00**

The Major Tick Length property

Minor Tick Interval

Defines the interval between each consecutive pair of minor ticks, in the units of the axis.

Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Interval: NaN

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

Computed Maximum: **40.74**

Computed Interval: **10.00**

The Minor Tick Interval property

Minor Tick Placement

Specifies whether the minor ticks appear on the inside, outside, or center of the line that represents an axis.

Axis Type: **Linear Axis**

Inverted

Format String:

Auto Adjust Base At Zero

Min: **NaN** Max: **NaN**

Major Interval: **NaN**

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Interval: **NaN**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Computed Minimum: **0**

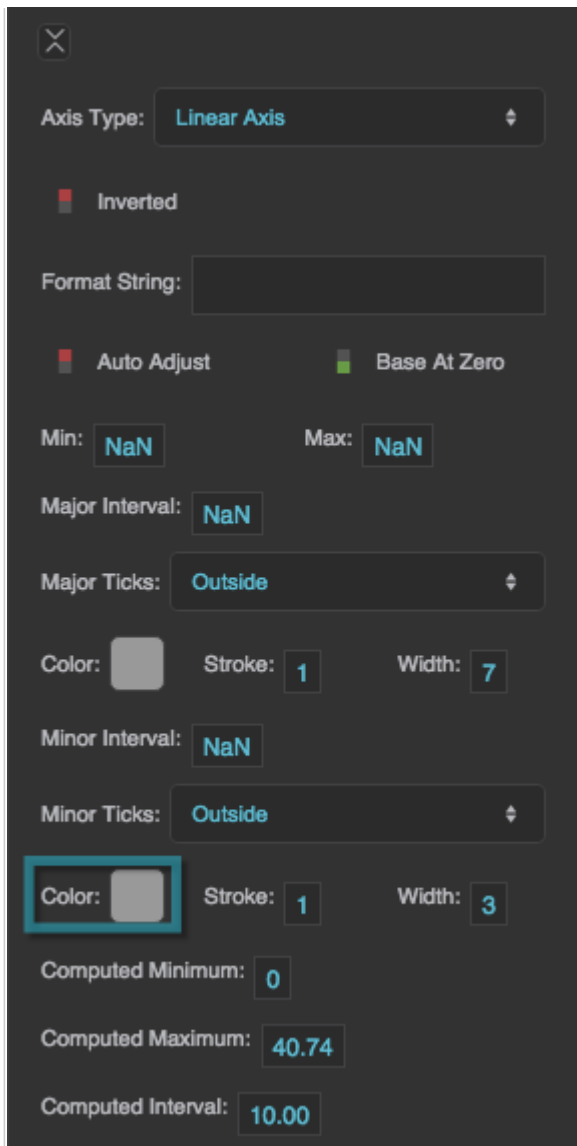
Computed Maximum: **40.74**

Computed Interval: **10.00**

The Minor Tick Placement property

Minor Tick Stroke Color

Defines the stroke color of the minor ticks.



Axis Type: Linear Axis

Inverted

Format String:

Auto Adjust Base At Zero

Min: NaN Max: NaN

Major Interval: NaN

Major Ticks: Outside

Color: Stroke: 1 Width: 7

Minor Interval: NaN

Minor Ticks: Outside

Color: Stroke: 1 Width: 3

Computed Minimum: 0

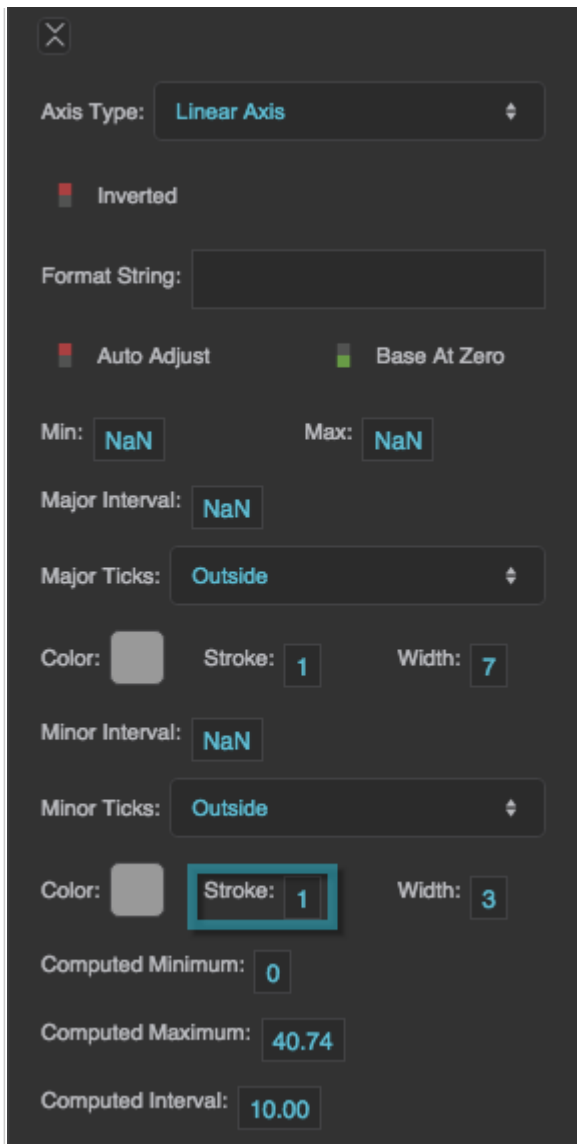
Computed Maximum: 40.74

Computed Interval: 10.00

The Minor Tick Color property

Minor Tick Stroke Weight

Defines the stroke weight of each minor tick.

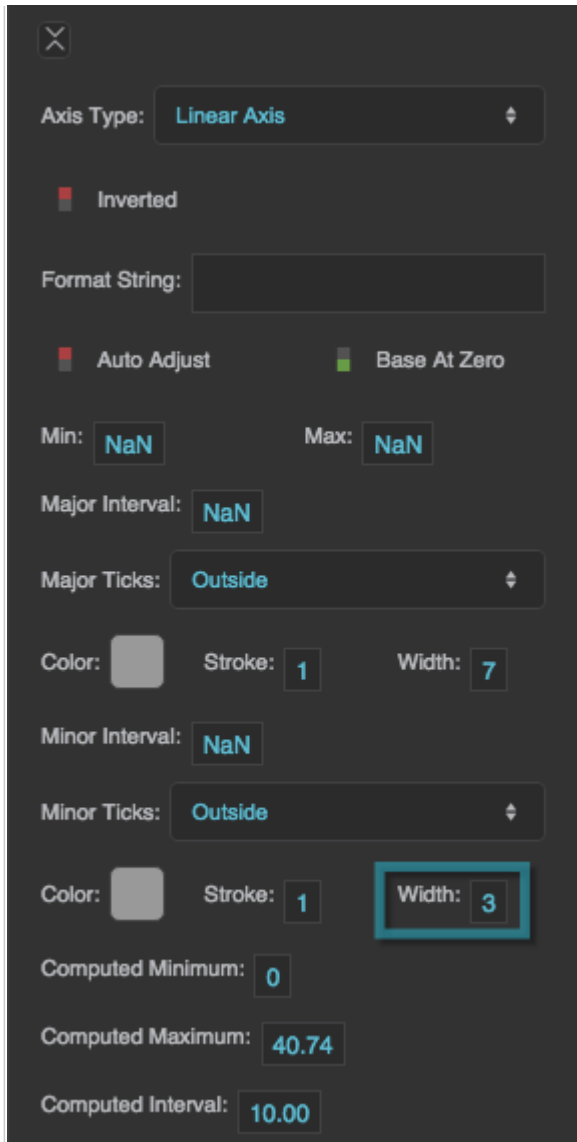


The image shows a dark-themed dialog box for configuring axis properties. It includes a close button (X) at the top left. The 'Axis Type' is set to 'Linear Axis'. There are checkboxes for 'Inverted', 'Auto Adjust', and 'Base At Zero'. The 'Format String' field is empty. The 'Min' and 'Max' values are both 'NaN'. The 'Major Interval' is 'NaN'. The 'Major Ticks' are set to 'Outside'. The 'Color' is a light gray square, 'Stroke' is '1', and 'Width' is '7'. The 'Minor Interval' is 'NaN'. The 'Minor Ticks' are set to 'Outside'. The 'Color' is a light gray square, 'Stroke' is '1' (highlighted with a red box), and 'Width' is '3'. The 'Computed Minimum' is '0', 'Computed Maximum' is '40.74', and 'Computed Interval' is '10.00'.

The Minor Tick Stroke Weight property

Minor Tick Stroke Length

Defines the length of each minor tick.



Axis Type: Linear Axis

Inverted

Format String:

Auto Adjust Base At Zero

Min: NaN Max: NaN

Major Interval: NaN

Major Ticks: Outside

Color: Stroke: 1 Width: 7

Minor Interval: NaN

Minor Ticks: Outside

Color: Stroke: 1 Width: 3

Computed Minimum: 0

Computed Maximum: 40.74

Computed Interval: 10.00

The Minor Tick Length property

Compare Mode

Defines the Compare Mode of this axis. Use a Compare Mode when you want to overlay data for different dates and times. See [Designing Charts](#).

None

Series with different dates and times are not aligned.

Hour

Times of day are aligned, so you can compare midnight with midnight.

Day

Date ranges are aligned, so you can compare "day one" from different ranges.

Week

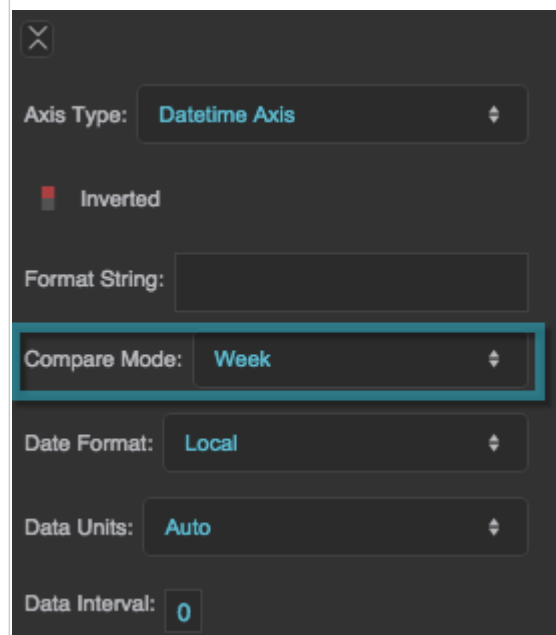
Days of the week are aligned, so you can compare Mondays with Mondays.

Month

Days of the month are aligned, so you can compare firsts of the month.

Year

Days of the year are aligned, so you can compare January first with January first.

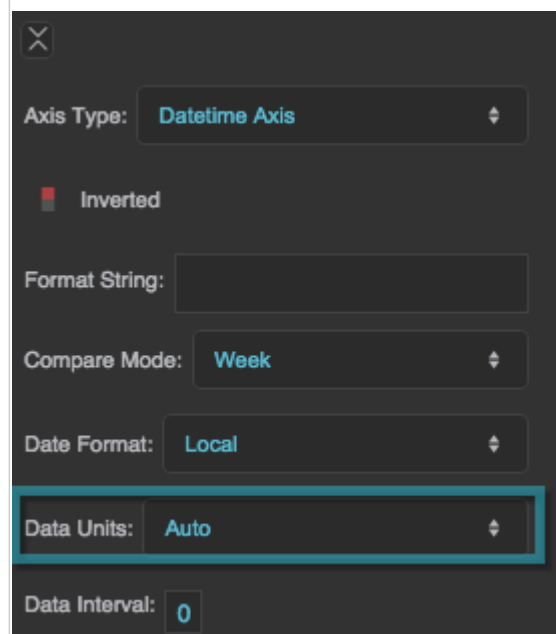


The Compare Mode property

Data Units

Defines the units for this Datetime axis.

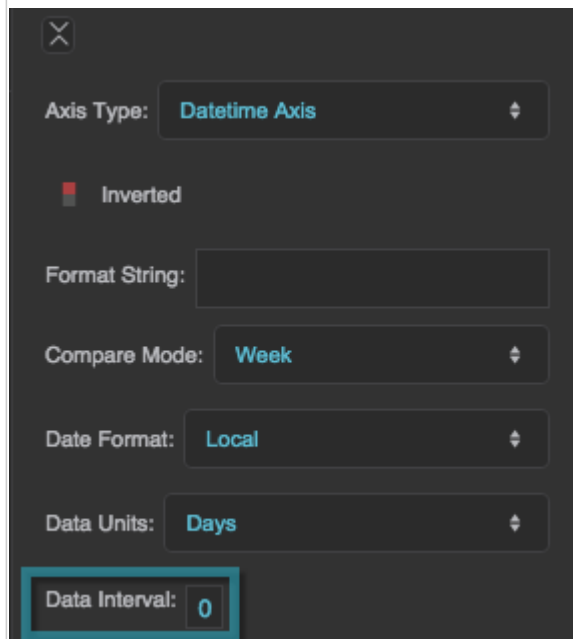
A value of Auto means that units are determined automatically based on the data feeding the chart.



The Data Units property

Data Interval

Defines the interval between each consecutive pair of major ticks, in the units of the axis. This property is ignored if the Data Units property is set to Auto.

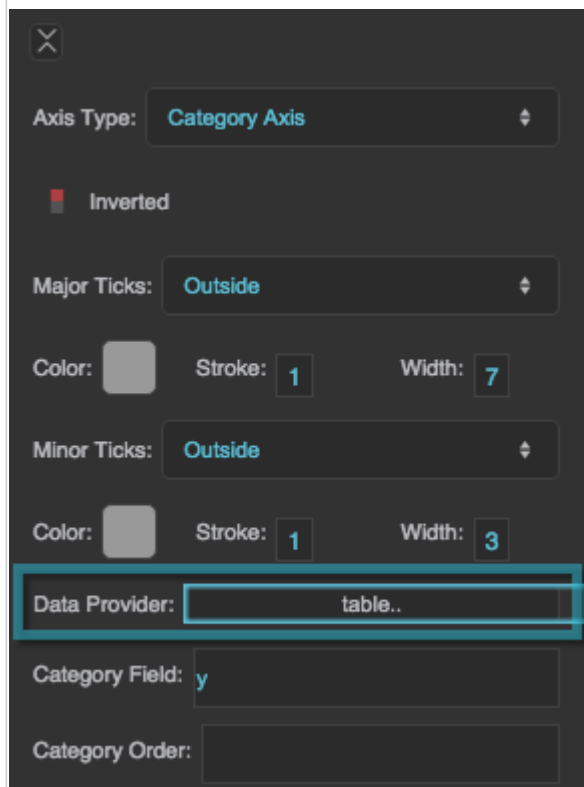


A screenshot of a dark-themed settings panel for a 'Datetime Axis'. The panel includes several configuration options: 'Axis Type' is set to 'Datetime Axis'; 'Inverted' is checked; 'Format String' is empty; 'Compare Mode' is set to 'Week'; 'Date Format' is set to 'Local'; 'Data Units' is set to 'Days'; and 'Data Interval' is set to '0'. The 'Data Interval' field is highlighted with a red rectangular border.

The Data Interval property

Data Provider

Defines the table that feeds data to this category axis.

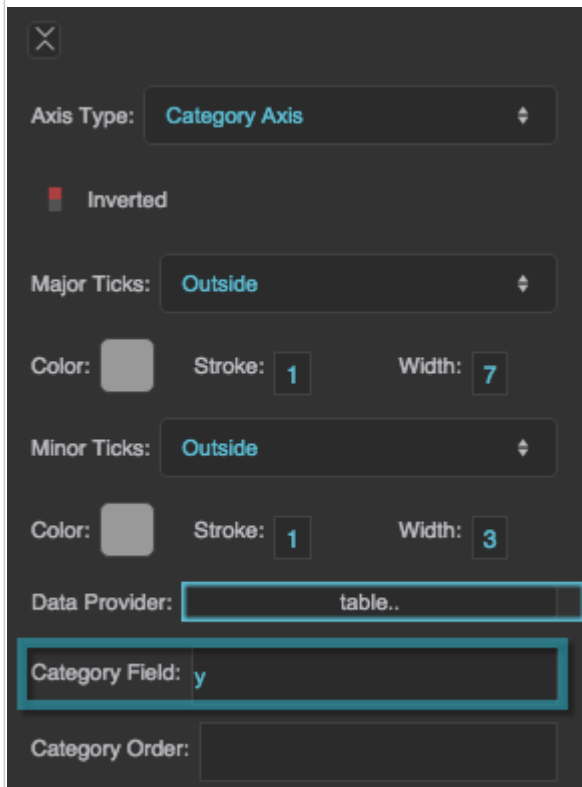


A screenshot of a dark-themed settings panel for a 'Category Axis'. The panel includes several configuration options: 'Axis Type' is set to 'Category Axis'; 'Inverted' is checked; 'Major Ticks' is set to 'Outside'; 'Color' is a grey square; 'Stroke' is set to '1'; 'Width' is set to '7'; 'Minor Ticks' is set to 'Outside'; 'Color' is a grey square; 'Stroke' is set to '1'; 'Width' is set to '3'; 'Data Provider' is set to 'table..'; 'Category Field' is set to 'y'; and 'Category Order' is empty. The 'Data Provider' field is highlighted with a red rectangular border.

The Data Provider property

Category Field

Defines the table column that contains category names.



Axis Type: **Category Axis**

Inverted

Major Ticks: **Outside**

Color: Stroke: **1** Width: **7**

Minor Ticks: **Outside**

Color: Stroke: **1** Width: **3**

Data Provider: **table..**

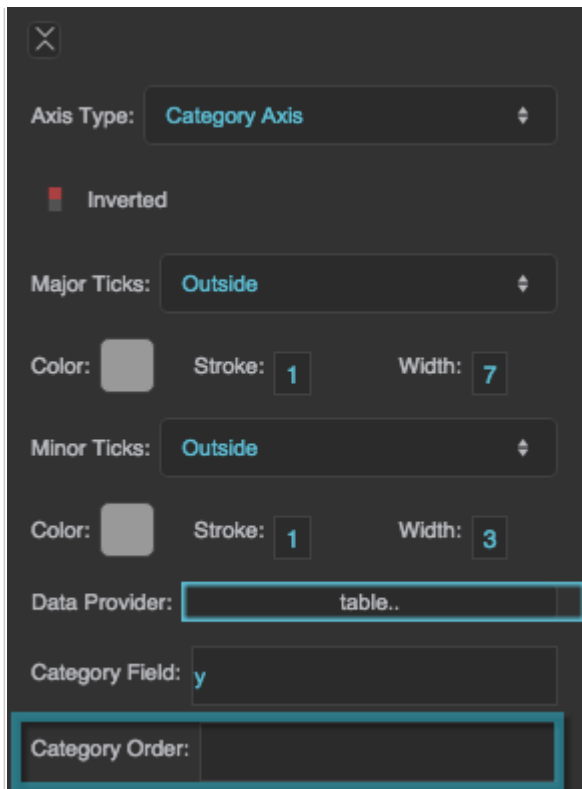
Category Field: y

Category Order:

The Category Field property

Category Order

Defines the order of the categories on this axis, as a list of comma-separated values.

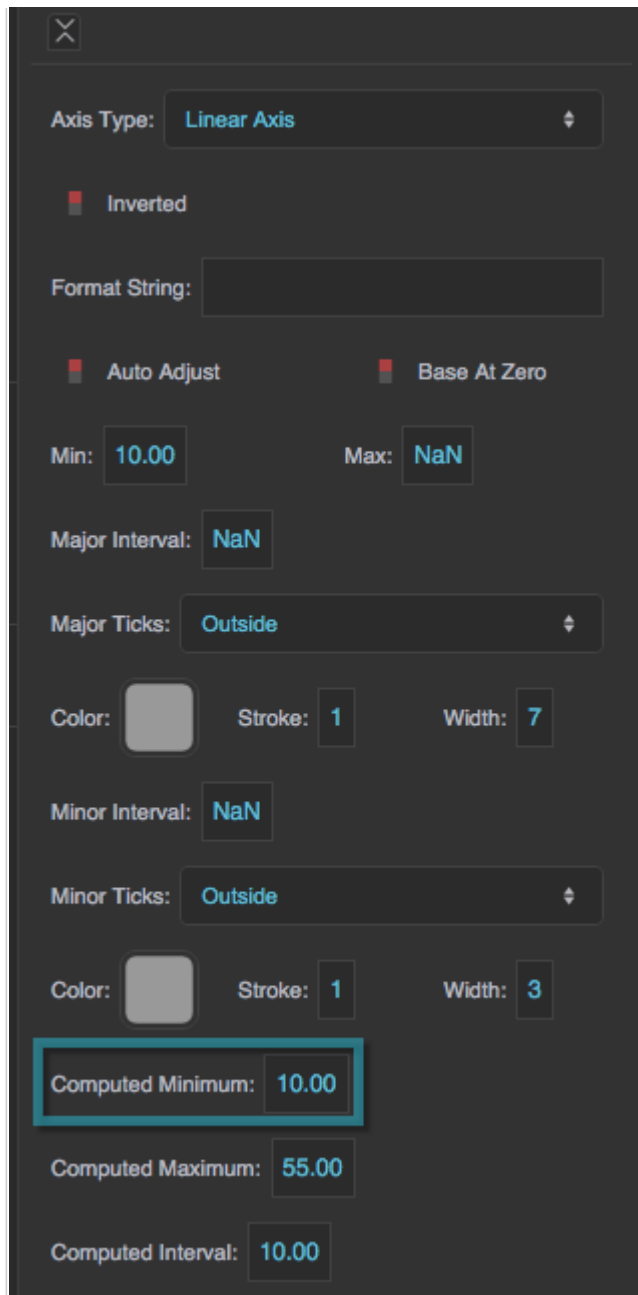


The screenshot shows a dark-themed dialog box for configuring an axis. At the top left is a close button (X). The 'Axis Type' is set to 'Category Axis'. There is an 'Inverted' checkbox which is currently unchecked. The 'Major Ticks' are set to 'Outside'. Below this, there are two sets of tick configuration: one for major ticks with a color swatch, 'Stroke' of 1, and 'Width' of 7; and one for minor ticks with a color swatch, 'Stroke' of 1, and 'Width' of 3. The 'Data Provider' is set to 'table..'. The 'Category Field' is set to 'y'. The 'Category Order' property is highlighted with a red rectangular box.

The Category Order property

Computed Minimum

Returns the minimum of the axis range, which is defined either automatically or by the **Axis Minimum** or **Data Interval** property. This is a read-only property, so changing it does nothing.



Axis Type: Linear Axis

Inverted

Format String:

Auto Adjust Base At Zero

Min: 10.00 Max: NaN

Major Interval: NaN

Major Ticks: Outside

Color: Stroke: 1 Width: 7

Minor Interval: NaN

Minor Ticks: Outside

Color: Stroke: 1 Width: 3

Computed Minimum: 10.00

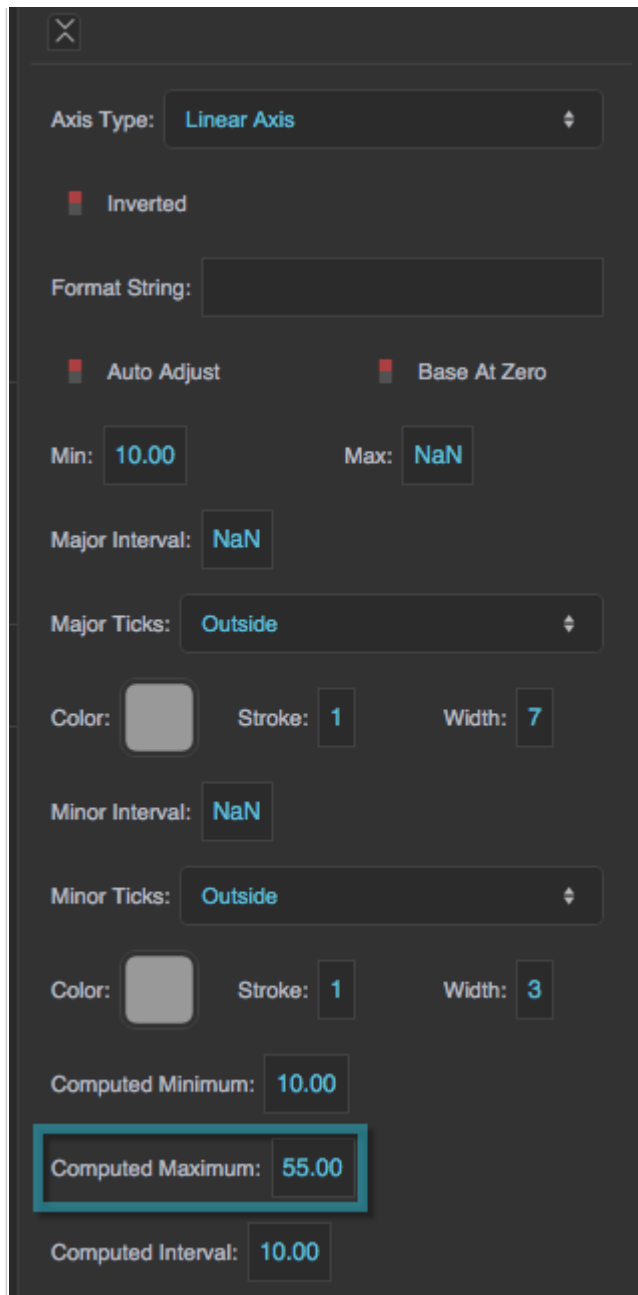
Computed Maximum: 55.00

Computed Interval: 10.00

The Computed Minimum property

Computed Maximum

Returns the maximum of the axis range, which is defined either automatically or by the **Axis Maximum** property. This is a read-only property, so changing it does nothing.

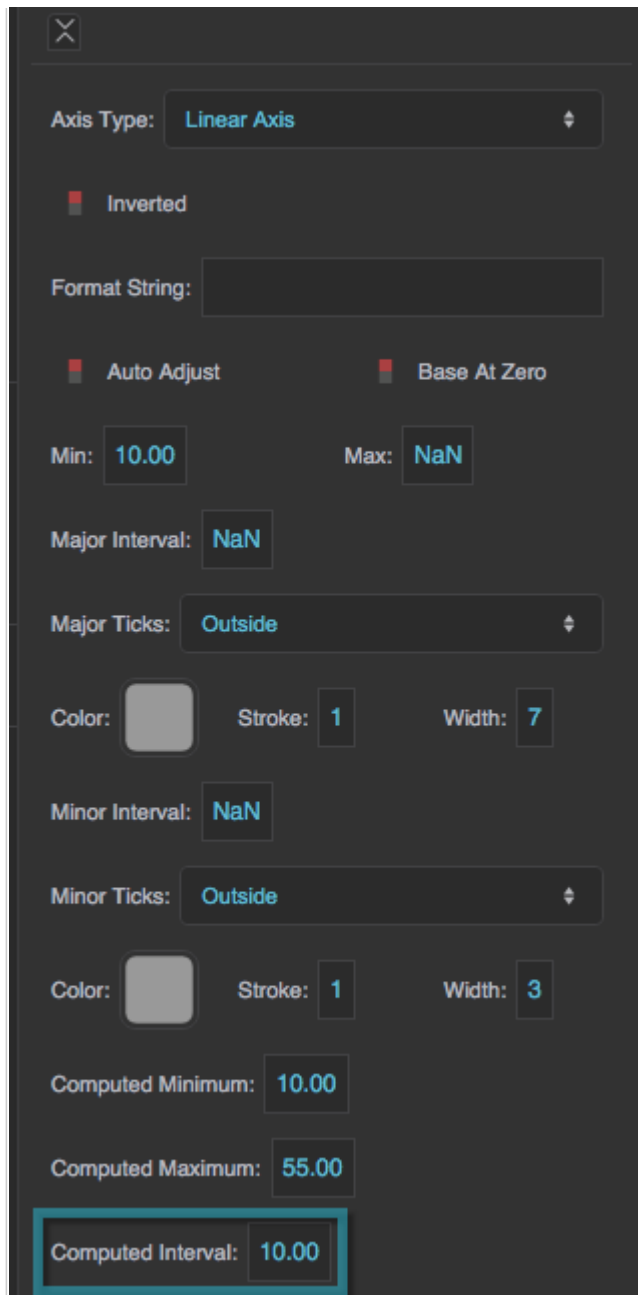


The screenshot shows the 'Axis Properties' dialog box for a 'Linear Axis'. The 'Axis Type' is set to 'Linear Axis'. There are checkboxes for 'Inverted', 'Auto Adjust', and 'Base At Zero'. The 'Format String' is empty. The 'Min' is 10.00 and the 'Max' is NaN. The 'Major Interval' is NaN. The 'Major Ticks' are set to 'Outside'. The 'Color' is a light gray square, 'Stroke' is 1, and 'Width' is 7. The 'Minor Interval' is NaN. The 'Minor Ticks' are set to 'Outside'. The 'Color' is a light gray square, 'Stroke' is 1, and 'Width' is 3. The 'Computed Minimum' is 10.00. The 'Computed Maximum' is 55.00, which is highlighted with a red box. The 'Computed Interval' is 10.00.

The Computed Maximum property

Computed Interval

Returns the interval between major ticks, which is defined either automatically or by the **Major Interval** property. This is a read-only property, so changing it does nothing.



The screenshot shows the 'Axis Properties' dialog box for a 'Linear Axis'. The 'Axis Type' is set to 'Linear Axis'. There are checkboxes for 'Inverted', 'Auto Adjust', and 'Base At Zero'. The 'Format String' is empty. The 'Min' is 10.00 and the 'Max' is NaN. The 'Major Interval' is NaN. The 'Major Ticks' are set to 'Outside'. The 'Color' is a light gray square, 'Stroke' is 1, and 'Width' is 7. The 'Minor Interval' is NaN. The 'Minor Ticks' are set to 'Outside'. The 'Color' is a light gray square, 'Stroke' is 1, and 'Width' is 3. The 'Computed Minimum' is 10.00 and the 'Computed Maximum' is 55.00. The 'Computed Interval' is 10.00, which is highlighted with a red box.

The Computed Interval property

[Previous: Series Properties](#)

[Next: Plot Area Properties](#)

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