

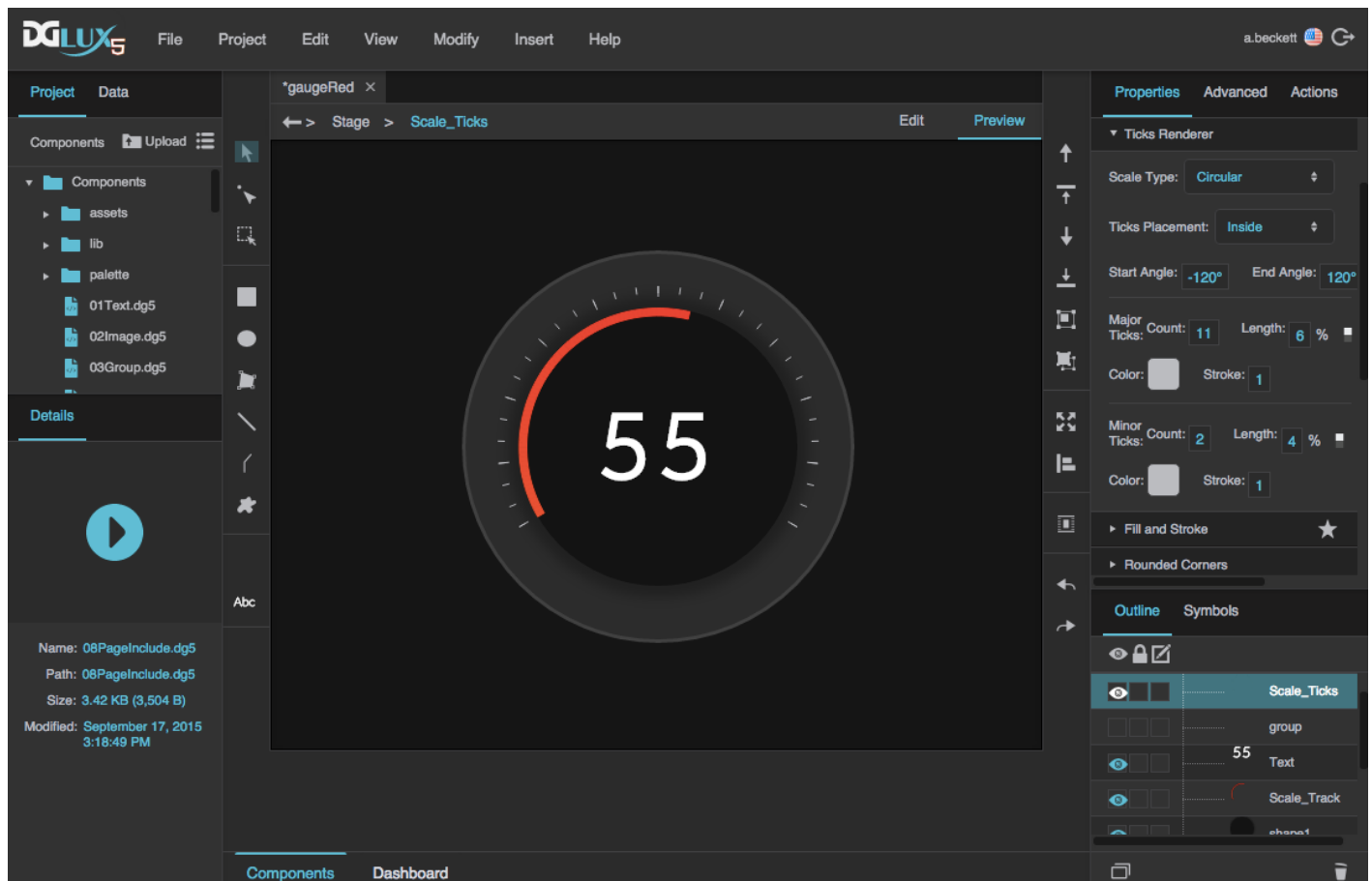
# Scale Ticks

The scale ticks component is a set of customizable tick marks arranged in a circular or linear configuration. You can use it when building a gauge widget.

To use this component, first you insert it by selecting **Insert > Gauge > Scale Ticks**. Then, you configure style and behavior using properties. You can customize the start angle and end angle, the number and appearance of the tick marks, and other properties.

For more information about creating gauges, see [Designing Gauges](#).

For a detailed reference of properties that affect scale ticks, see [Common Properties](#) and [Gauge Scale Properties](#).



*A gauge with scale ticks in DGLux5*

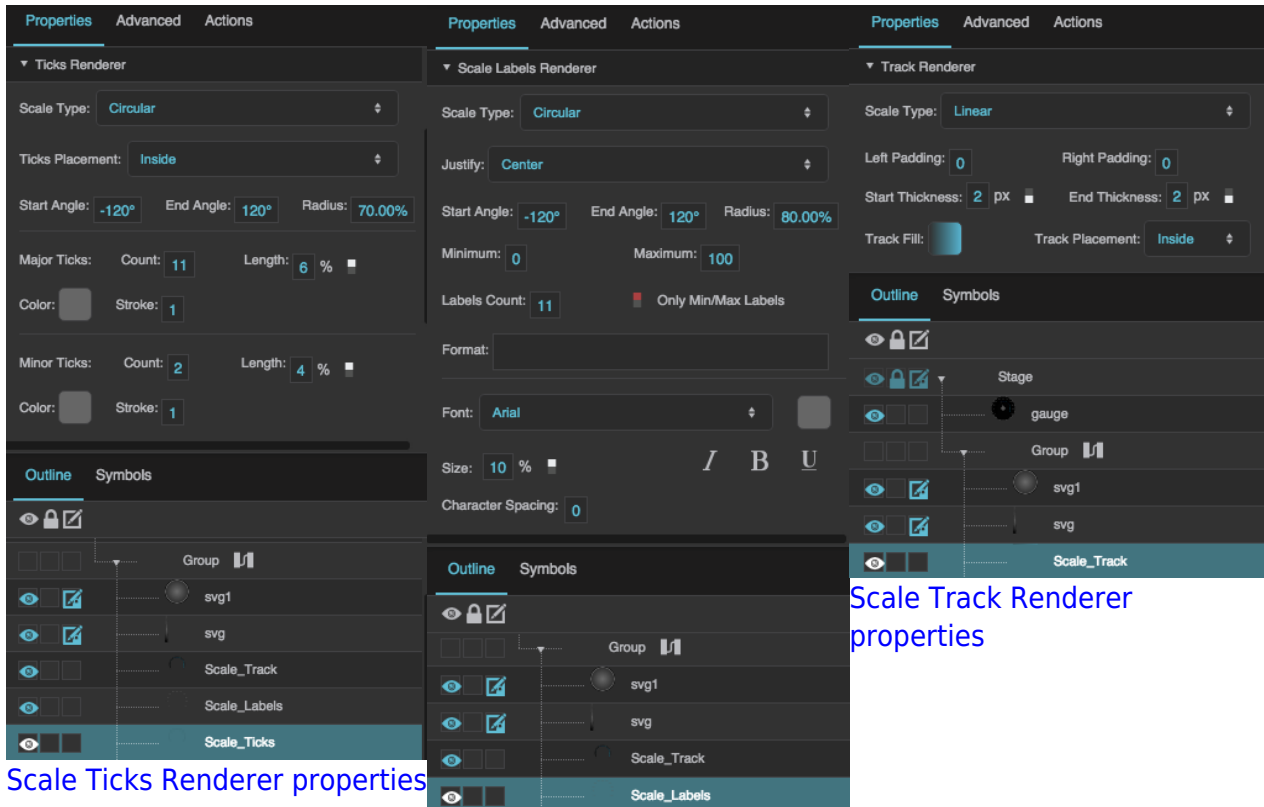
## Gauge Scale Properties

These properties affect gauge scales. A gauge scale fits into one of three categories, based on whether it has ticks, labels, or a track. Each category has its own properties.

For a guide to using gauges, see [Designing Gauges](#).



Gauges and gauge scales can also be affected using [Common Properties](#).



Scale Ticks Renderer properties

Scale Labels Renderer properties

Scale Track Renderer properties

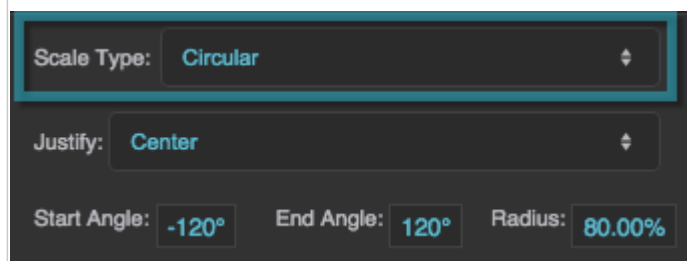
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### Shared Gauge Scale Properties

These properties affect the shape of any type of gauge scale.

#### Scale Type

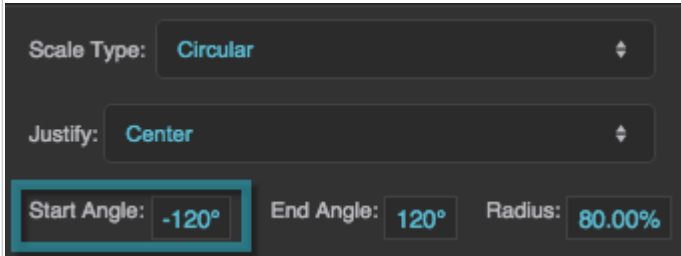
Specifies whether the shape of the scale is defined by a circle or a straight line.



## The Scale Type property

### Start Angle

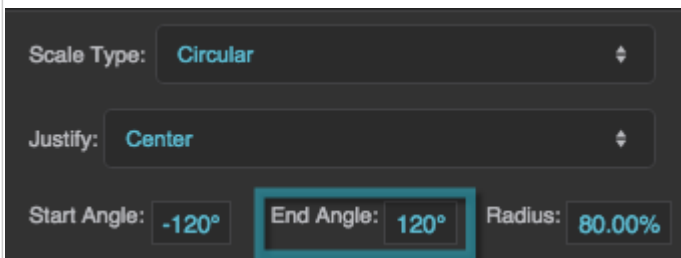
Defines the start angle of the circular scale. A value of zero indicates the top of the circle. Valid values are between  $-180$  and  $180$ .



## The Start Angle property

### End Angle

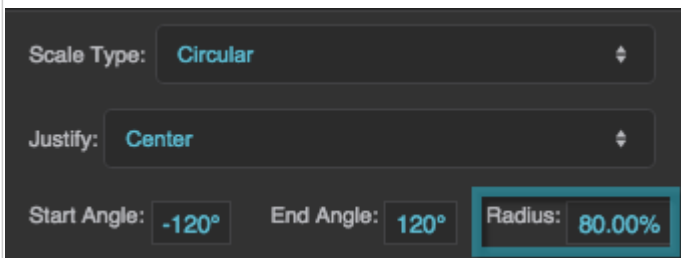
Defines the end angle of the circular scale. A value of zero indicates the top of the circle. Valid values are between  $-180$  and  $180$ .



## The End Angle property

### Radius

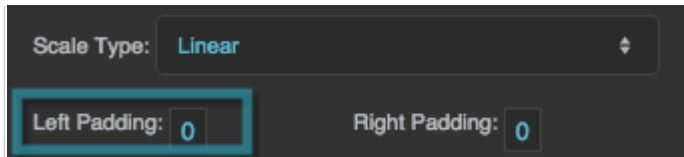
Defines the radius of the circle that defines the scale, as a percentage of either half the width or half the height of the container, whichever is larger.



## The Radius property

### Left Padding

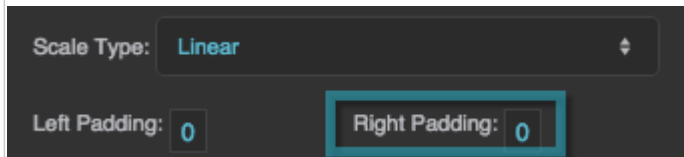
Defines the distance between the left side of a linear scale and the container boundary, in pixels. If a border stroke is defined, defines the distance between the scale and the border stroke. See [Borders, Padding, and Content Size](#).



*The Left Padding property*

## Right Padding

Defines the distance between the right side of a linear scale and the container boundary, in pixels. If a border stroke is defined, defines the distance between the scale and the border stroke. See [Borders, Padding, and Content Size](#).



*The Right Padding property*

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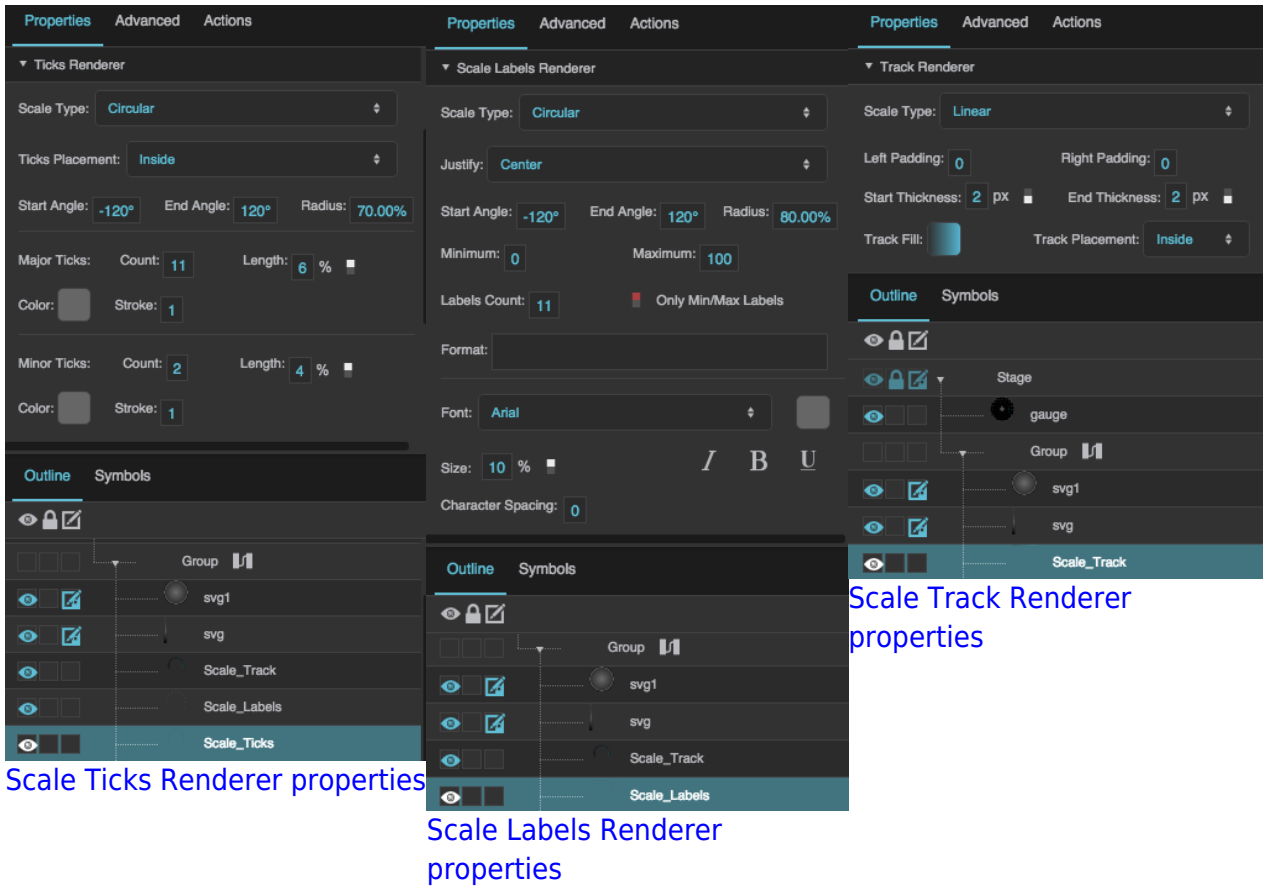
## Gauge Scale Properties

These properties affect gauge scales. A gauge scale fits into one of three categories, based on whether it has ticks, labels, or a track. Each category has its own properties.

For a guide to using gauges, see [Designing Gauges](#).



Gauges and gauge scales can also be affected using [Common Properties](#).



Scale Ticks Renderer properties

Scale Track Renderer properties

Scale Labels Renderer properties

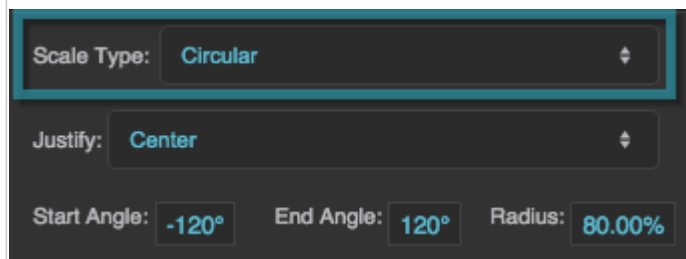
Click to display/hide all elements

### Shared Gauge Scale Properties

These properties affect the shape of any type of gauge scale.

#### Scale Type

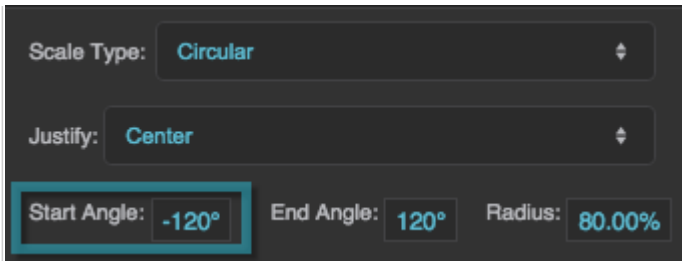
Specifies whether the shape of the scale is defined by a circle or a straight line.



The Scale Type property

#### Start Angle

Defines the start angle of the circular scale. A value of zero indicates the top of the circle. Valid values are between -180 and 180.



Scale Type:

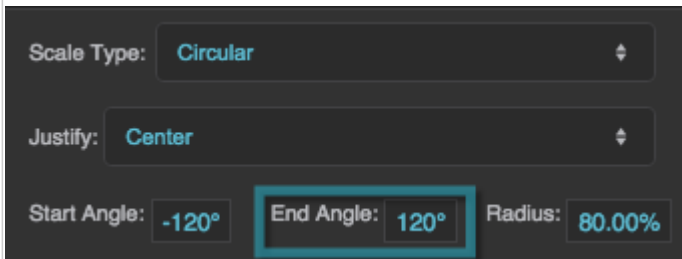
Justify:

Start Angle:  End Angle:  Radius:

*The Start Angle property*

## End Angle

Defines the end angle of the circular scale. A value of zero indicates the top of the circle. Valid values are between  $-180$  and  $180$ .



Scale Type:

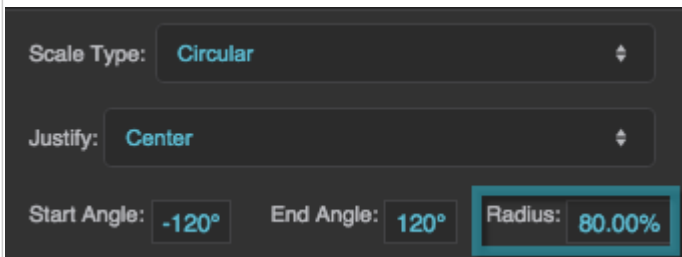
Justify:

Start Angle:  End Angle:  Radius:

*The End Angle property*

## Radius

Defines the radius of the circle that defines the scale, as a percentage of either half the width or half the height of the container, whichever is larger.



Scale Type:

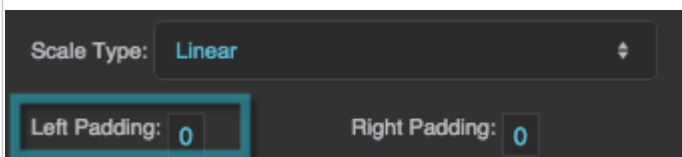
Justify:

Start Angle:  End Angle:  Radius:

*The Radius property*

## Left Padding

Defines the distance between the left side of a linear scale and the container boundary, in pixels. If a border stroke is defined, defines the distance between the scale and the border stroke. See [Borders, Padding, and Content Size](#).



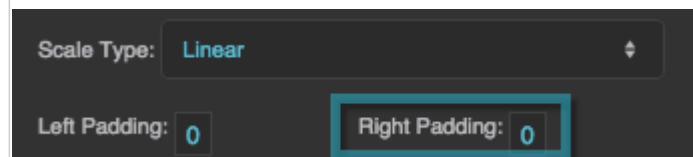
Scale Type:

Left Padding:  Right Padding:

*The Left Padding property*

## Right Padding

Defines the distance between the right side of a linear scale and the container boundary, in pixels. If a border stroke is defined, defines the distance between the scale and the border stroke. See [Borders, Padding, and Content Size](#).



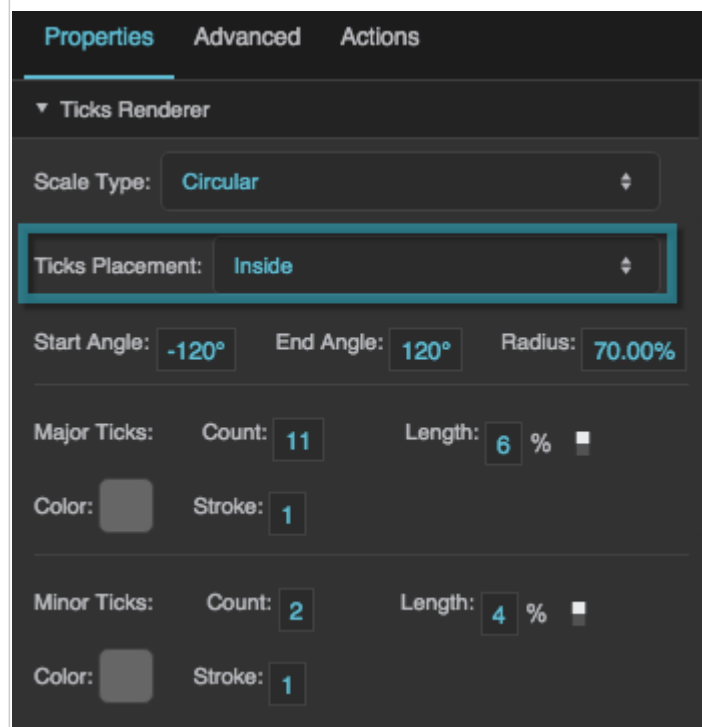
*The Right Padding property*

## Scale Ticks Renderer Properties

These properties affect a scale with ticks.

### Ticks Placement

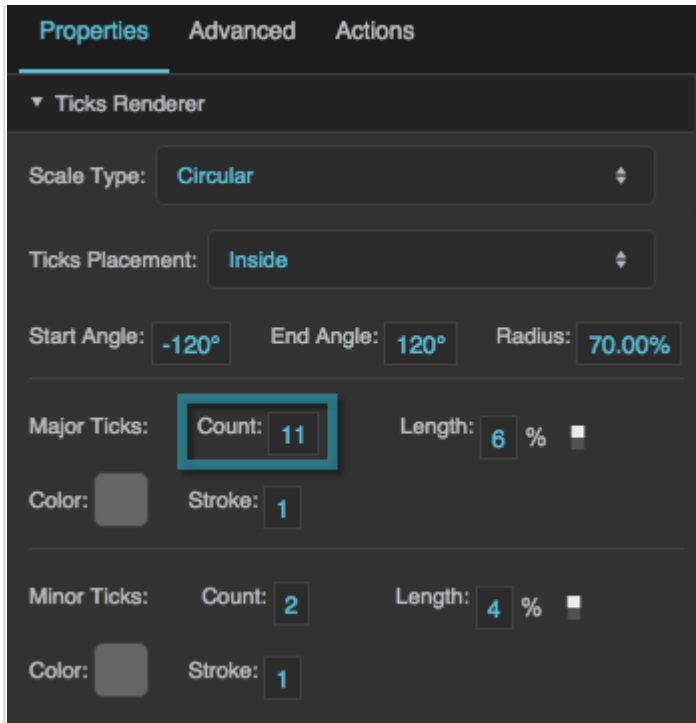
Specifies whether the ticks are positioned on the inside, outside, or center of the circle or line that defines the scale.



*The Ticks Placement property*

### Major Tick Count

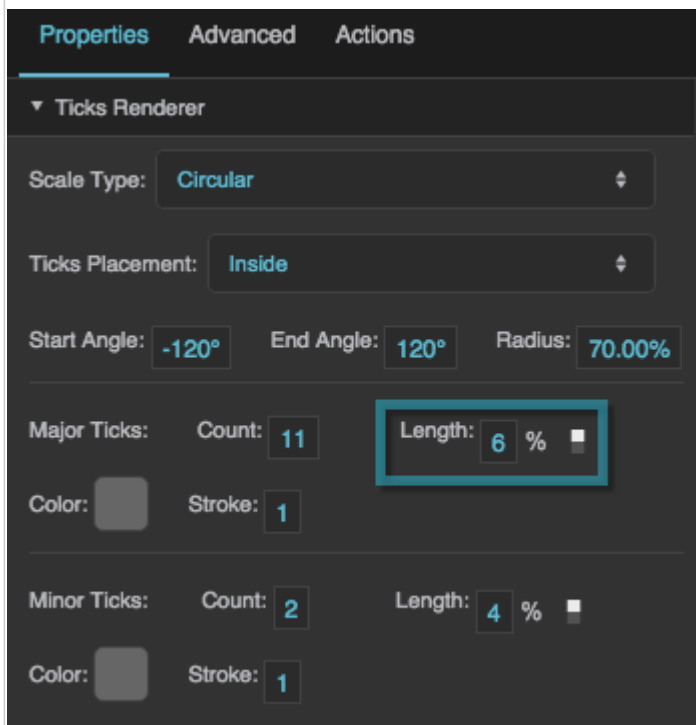
Defines the total number of major ticks along this scale.



The Major Tick Count property

### Major Ticks Length

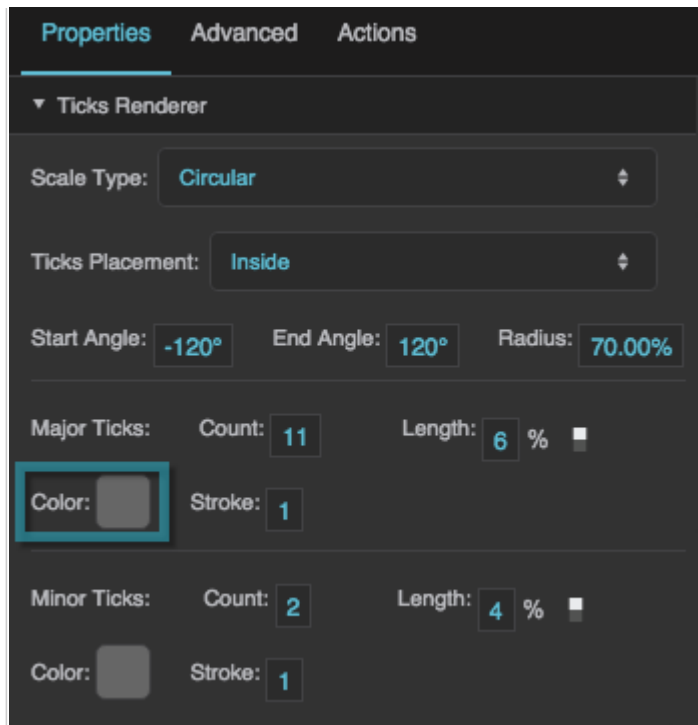
Defines the length of each major tick, as a pixel value or a percentage. For circular scales, a percentage is a portion of the circle's radius. For linear scales, a percentage is a portion of half the container width.



The Major Tick Length property

Defines the stroke color of the major ticks.

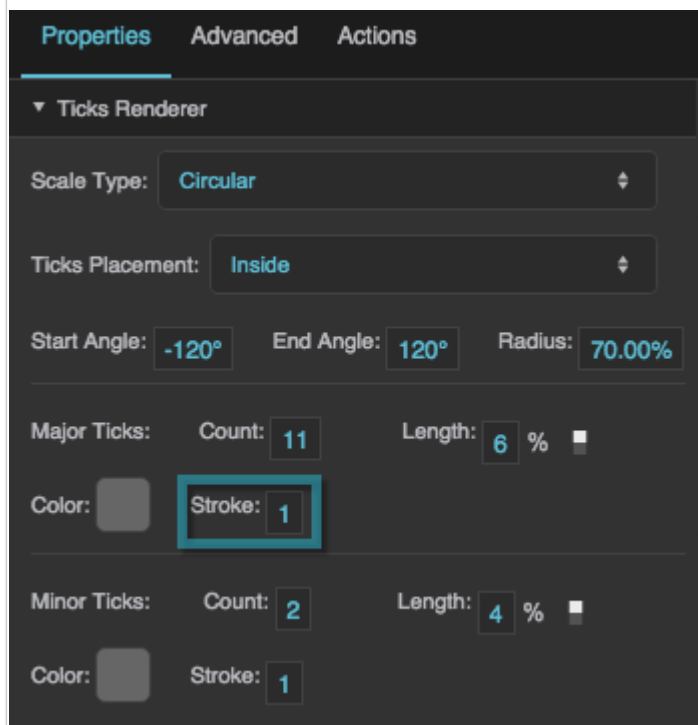




*The Major Tick Color property*

## Major Tick Stroke Weight

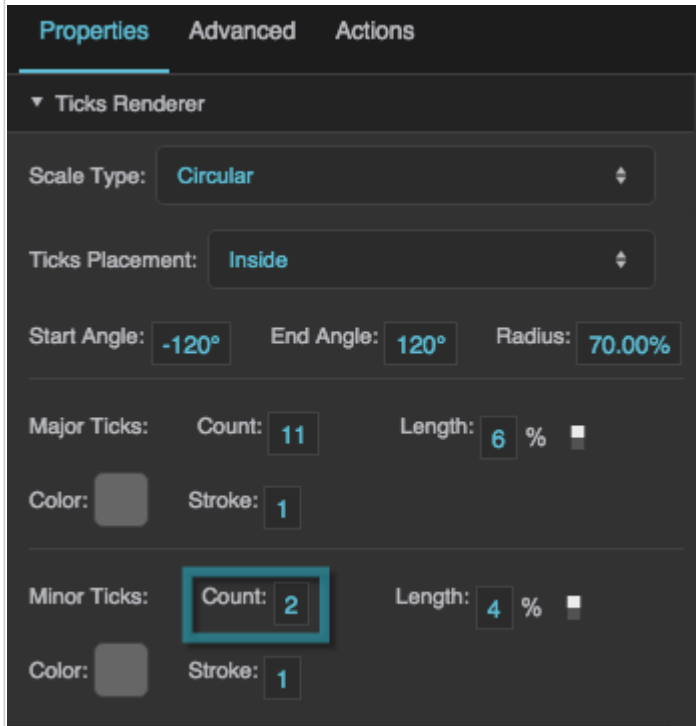
Defines the stroke weight of each major tick.



*The Major Tick Weight property*

## Minor Tick Count

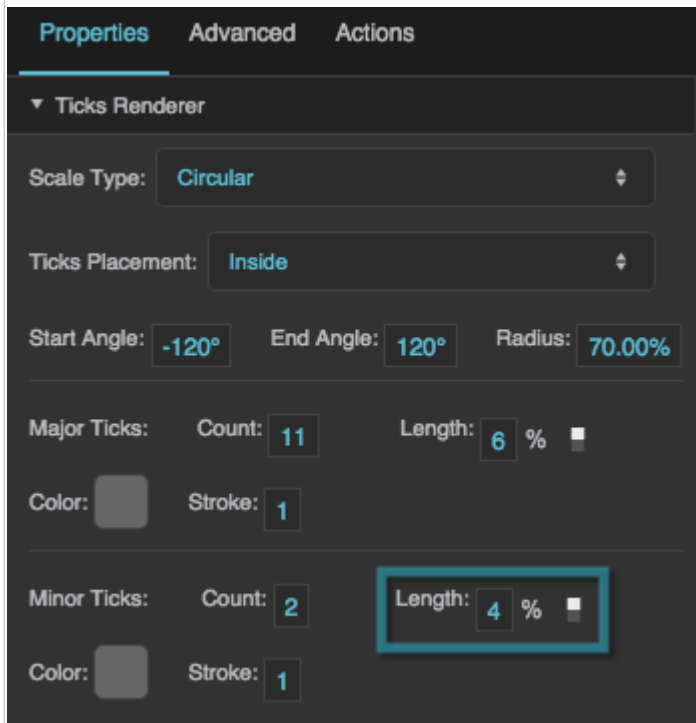
Defines the number of minor ticks between each consecutive pair of major ticks.



*The Minor Tick Count property*

### Minor Tick Length

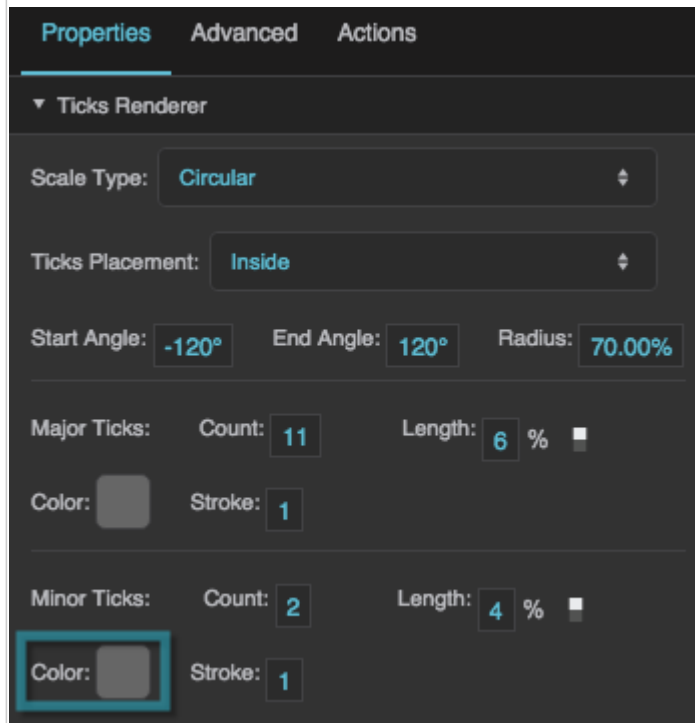
Defines the length of each minor tick, as a pixel value or a percentage. For circular scales, a percentage is a portion of the circle's radius. For linear scales, a percentage is a portion of half the container width.



*The Minor Tick Length property*

## Minor Tick Stroke Color

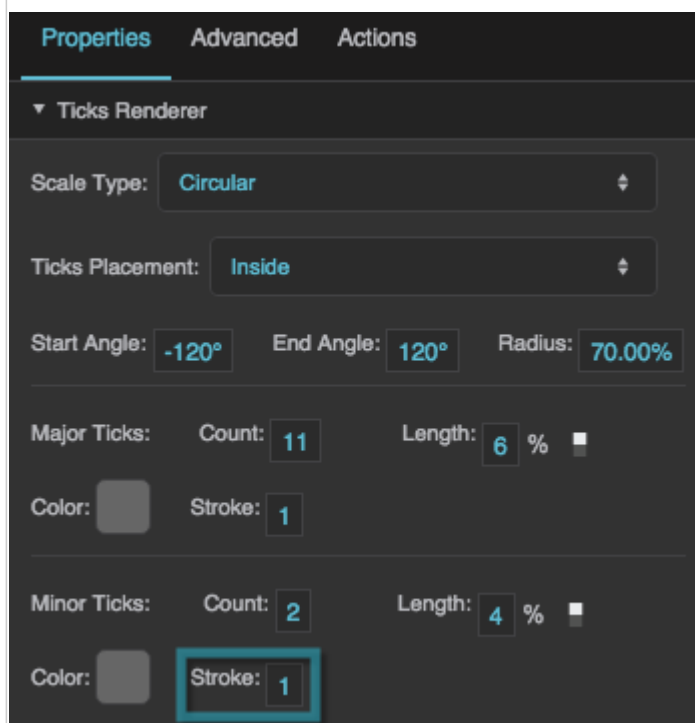
Defines the stroke color of the minor ticks.



*The Minor Tick Color property*

## Minor Tick Stroke Weight

Defines the stroke weight of each minor tick.



*The Minor Tick Weight property*

## Scale Labels Renderer Properties

These properties affect a scale with number labels.

### Justify

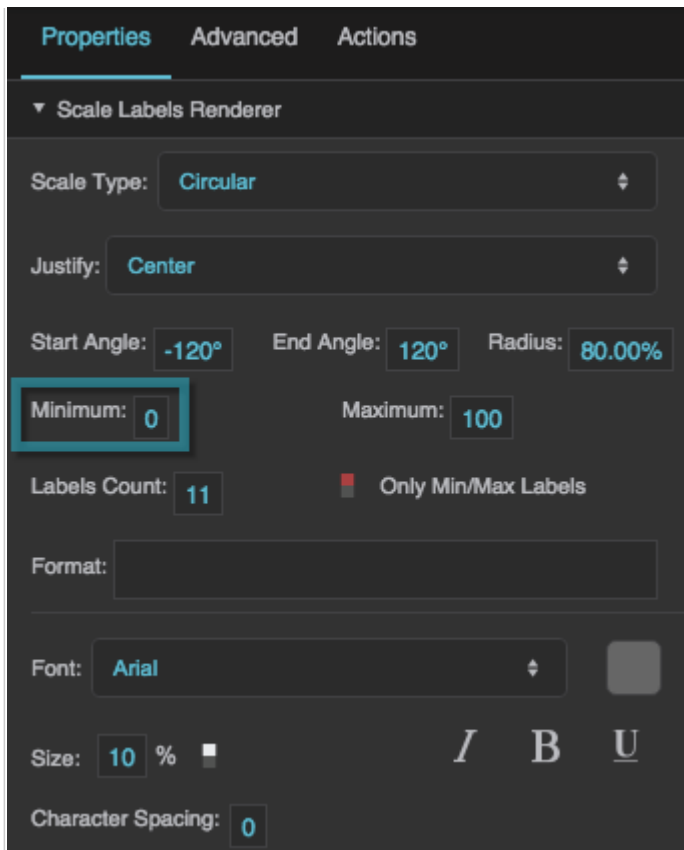
Specifies whether the labels appear on the inside, outside, or center of the circle or line that defines the scale.



*The Justify property*

### Minimum

Defines the lowest number on the scale.



The screenshot shows a dark-themed software interface with three tabs: 'Properties', 'Advanced', and 'Actions'. The 'Properties' tab is active. Under the 'Scale Labels Renderer' section, the following settings are visible:

- Scale Type: Circular
- Justify: Center
- Start Angle: -120°
- End Angle: 120°
- Radius: 80.00%
- Minimum: 0 (highlighted with a red box)
- Maximum: 100
- Labels Count: 11
- Only Min/Max Labels:
- Format: (empty text box)
- Font: Arial
- Size: 10 %
- Character Spacing: 0

*The Minimum property*

## Maximum

Defines the highest number on the scale.

Properties Advanced Actions

▼ Scale Labels Renderer

Scale Type: Circular

Justify: Center

Start Angle: -120° End Angle: 120° Radius: 80.00%

Minimum: 0 Maximum: 100

Labels Count: 11  Only Min/Max Labels

Format:

Font: Arial

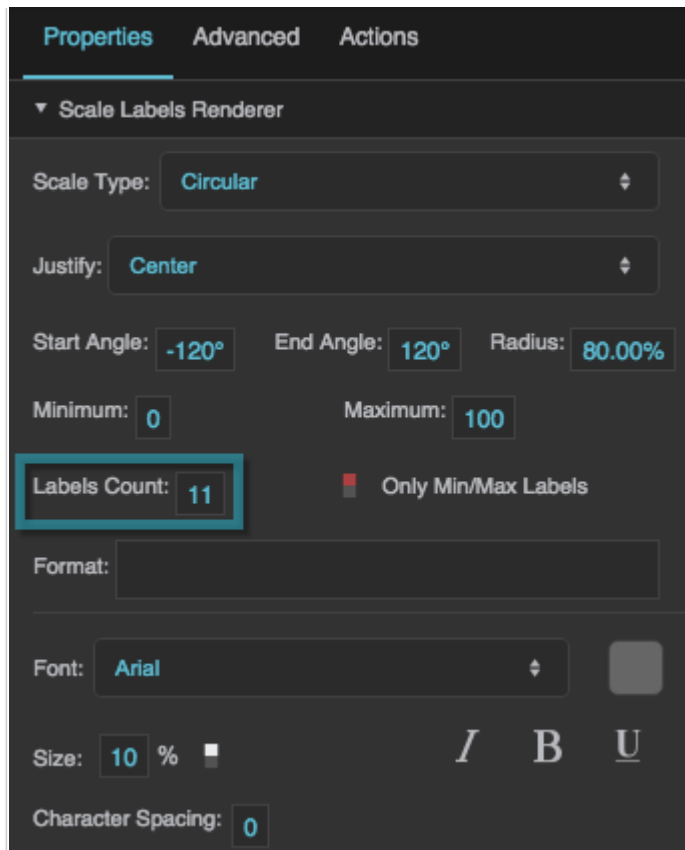
Size: 10 %  *B U*

Character Spacing: 0

*The Maximum property*

### Labels Count

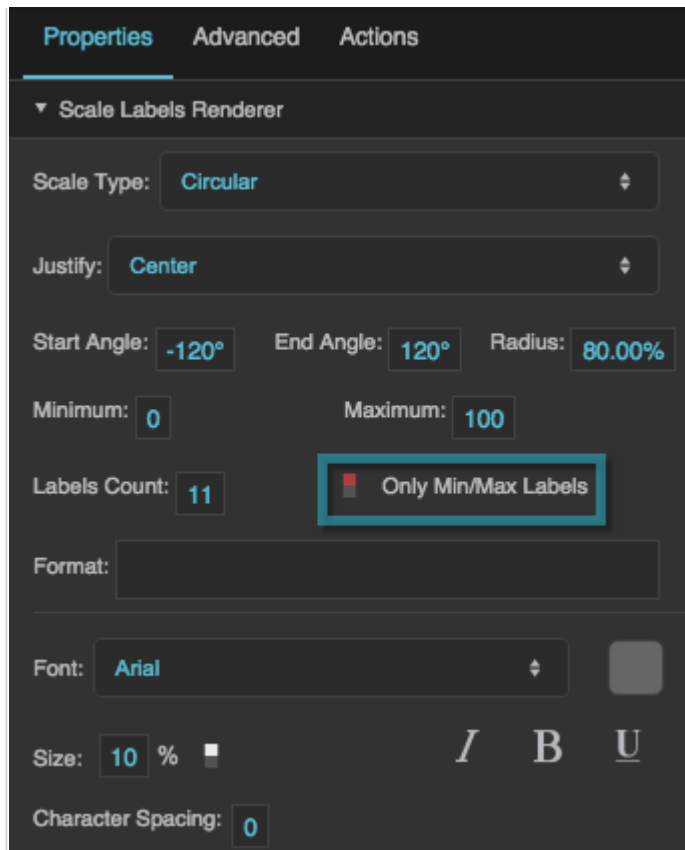
Defines the total number of labels along this scale. Must be an integer greater than or equal to 2. The **Only Min/Max Labels** property overrides this property.



*The Labels Count property*

### Only Min/Max Labels

Specifies whether the labels for the minimum and maximum of the scale are the only two labels that appear. This property overrides the **Labels Count** property.



*The Only Min/Max Labels property*

## Format

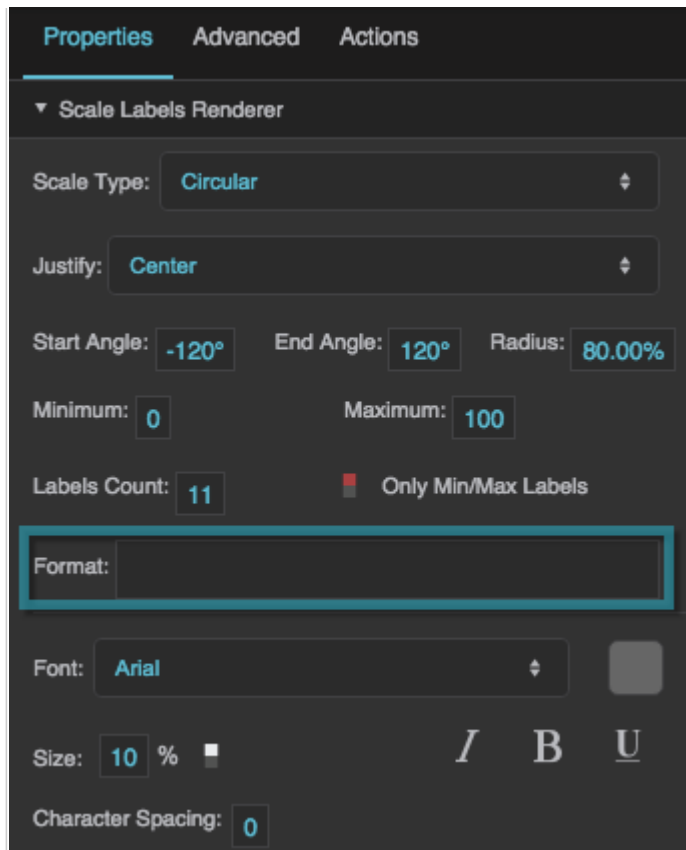
Defines the number format for scale labels, as a format string.

For example:

- **,##0.00**: Labels have a thousands separator and two decimal digits.
- **000.00**: Labels have three mandatory digits before the decimal, and two mandatory digits after the decimal.

For more information about supported formatting options, see [Scripting and Syntax](#).

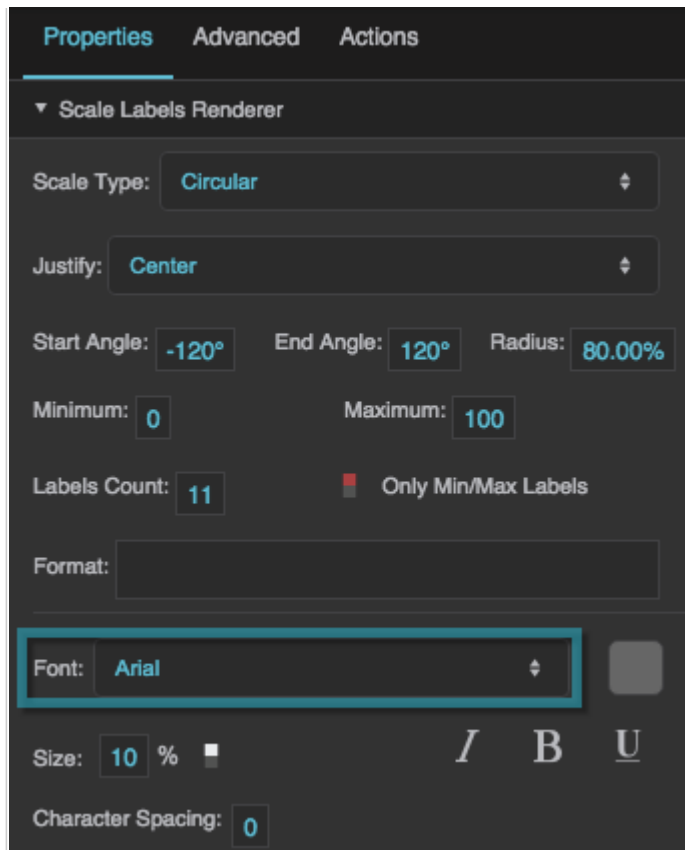




*The Format property*

## Labels Font

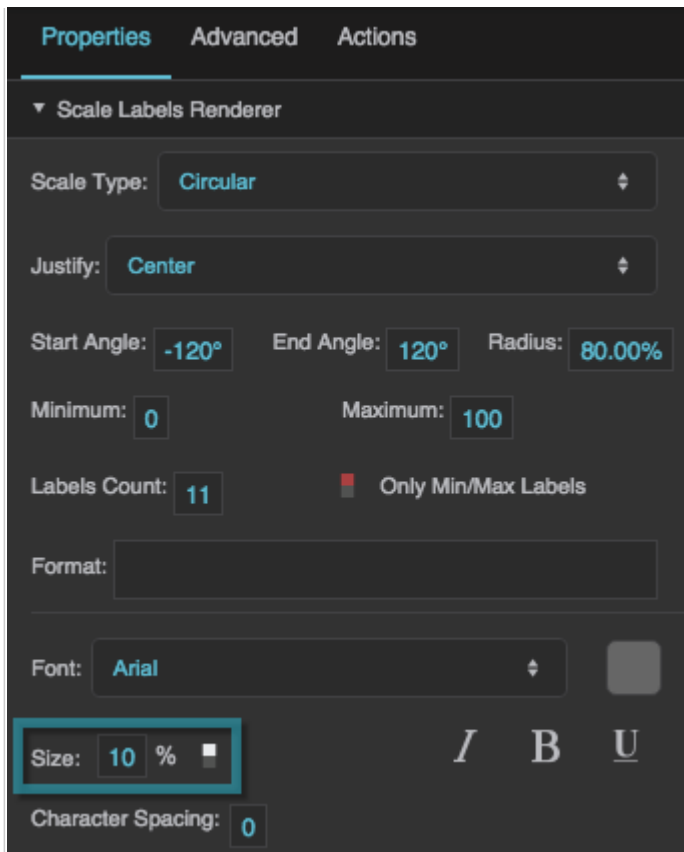
Defines the font used for the labels along this scale. To add a font to this project and use it for this property, see [Text Component Properties](#).



*The Font property*

## Labels Size

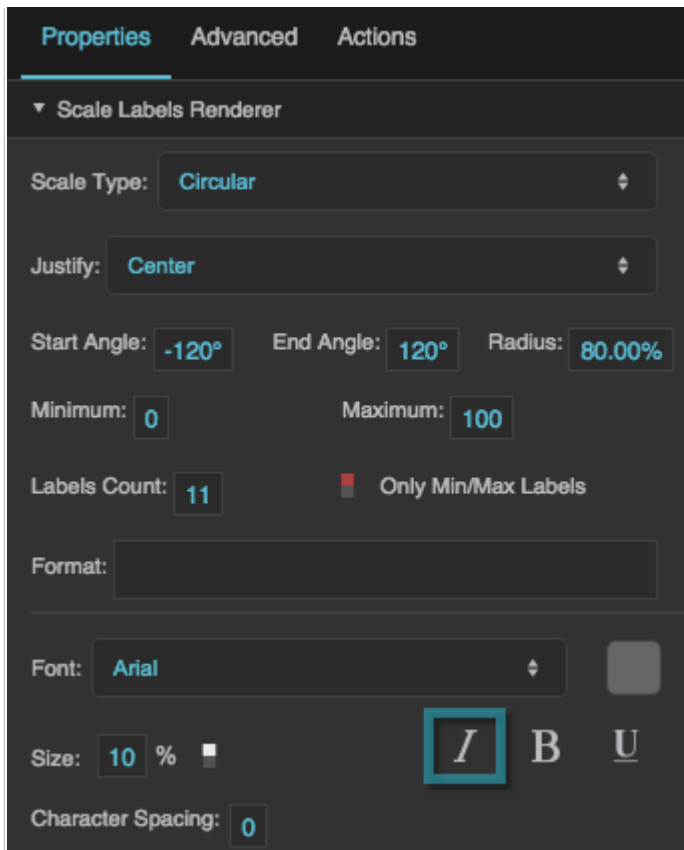
Defines the height of the scale numbers, as a pixel value or percentage. For circular scales, a percentage is a portion of the circle's radius. For linear scales, a percentage is a portion of half the container width.



*The Labels Size property*

## **Italic**

Defines whether the labels along this scale are italic.



*The Italic property*

## **Bold**

Defines whether the labels along this scale are bold.

Properties Advanced Actions

▼ Scale Labels Renderer

Scale Type: **Circular**

Justify: **Center**

Start Angle: **-120°** End Angle: **120°** Radius: **80.00%**

Minimum: **0** Maximum: **100**

Labels Count: **11**  Only Min/Max Labels

Format:

Font: **Arial**

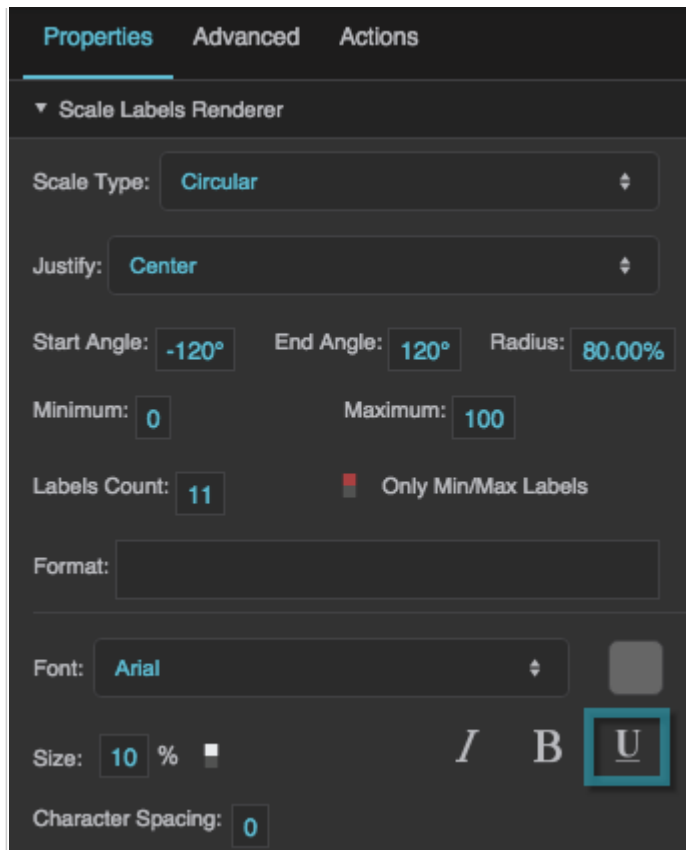
Size: **10** %  *I* **B** U

Character Spacing: **0**

*The Bold property*

## Underline

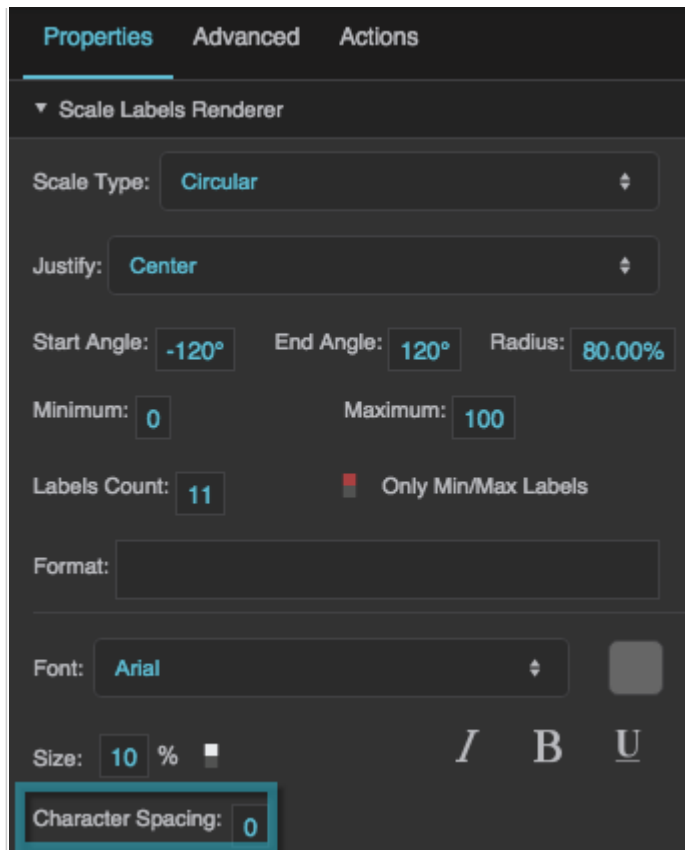
Defines whether the labels along this scale are underlined.



*The Underline property*

### Character Spacing

Specifies the horizontal spacing between characters in the scale labels, as a pixel value. A null value means the font's default spacing is used.



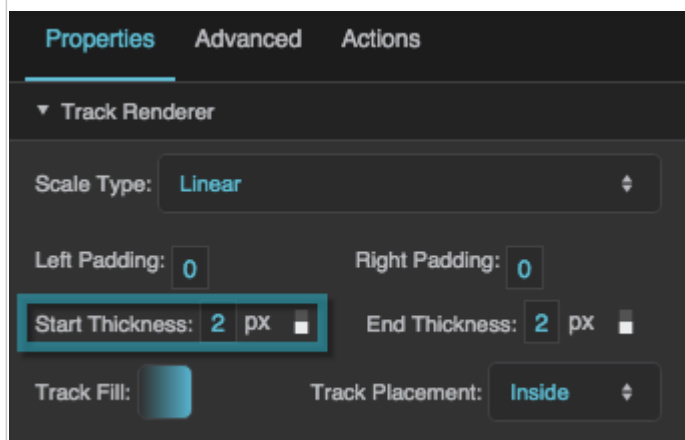
*The Character Spacing property*

## Scale Track Renderer Properties

These properties affect a scale with a track.

### Start Thickness

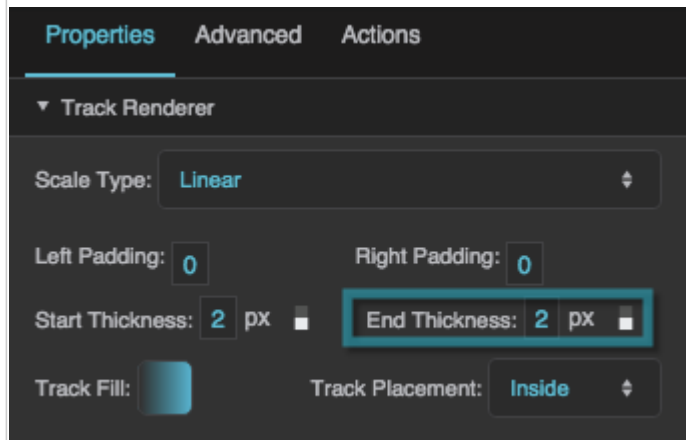
Defines the thickness of the scale track at its start, as a pixel or percentage value. For circular scales, a percentage is a portion of the circle's radius. For linear scales, a percentage is a portion of the entire container width.



## The Start Thickness property

### End Thickness

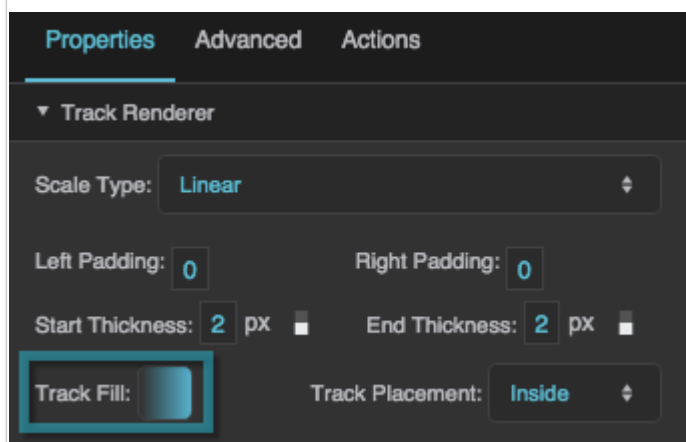
Defines the thickness of the scale track at its end, as a pixel or percentage value. For circular scales, a percentage is a portion of the circle's radius. For linear scales, a percentage is a portion of the entire container width.



## The End Thickness property

### Track Fill

Defines the colors for the gradient fill for the scale track. To add colors, click below the track in the dialog. To delete colors, right-click on them in the dialog.

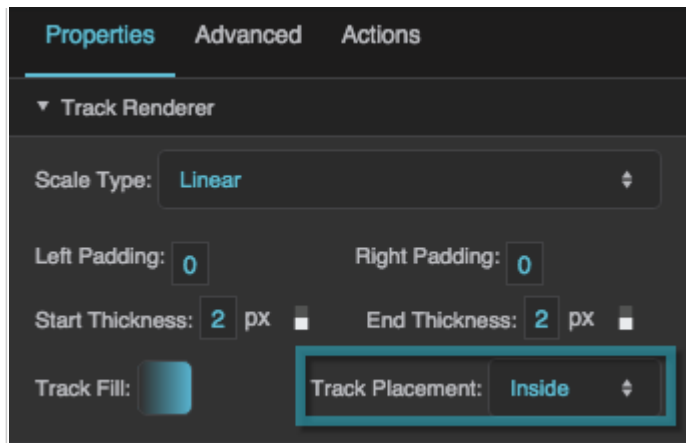


## The Track Fill property

### Track Placement

Specifies whether the track is positioned on the inside, outside, or center of the circle or line that defines the scale.





*The Track Placement property*

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