

## See Also

[GraffitiWebChartDataset](#)  
[GraffitiWebChartLegend](#)

## Enumerations

Name	Values
ChartTypes	Bar
	Line
	Radar
	Doughnut
	Pie
	StackedBar
	Polar
Easings	linear
	easeInBack
	easeInBounce
	easeInCirc
	easeInCubic
	easeInElastic
	easeInExpo
	easeInQuad
	easeInQuart
	easeInQuint
	easeInSine
	easeOutBack
	easeOutBounce
	easeOutCirc
	easeOutCubic
	easeOutElastic
	easeOutExpo
	easeOutQuad
	easeOutQuart
	easeOutQuint
	easeOutSine
	easeInOutBack
	easeInOutBounce
	easeInOutCirc
	easeInOutCubic
	easeInOutElastic
	easeInOutExpo
easeInOutQuad	
easeInOutQuart	
easeInOutQuint	
easeInOutSine	

Name	Values
FontStyles	Normal
	Bold
	Italic
	BoldItalic

### Constants

Name	Type	Value
	This class exposes no constants.	

### Events

Definition	Description
AnimationComplete()	
PointsClicked( Datasets() as GraffitiWebChartDataset )	

### Methods

Definition	Description
AddDataset( newDataset as GraffitiWebChartDataset, newIndex as Integer = -1 )	Adds a the provided dataset at the position signified by newIndex. If newIndex is less than zero, the item is appended to the end of the array.
DeleteAll()	Removes all datasets.
DoResize()	This method forces the chart to update its display. Most commonly would be used when resizing the control. Should not need to be called, but it's there if you need it.
RemoveDataset( DataIndex as Integer )	Removes the dataset signified by DataIndex.
SetBarFill( DatasetIndex as Integer, BarIndex as Integer, NewColor as Color )	Changes the bar fill color for the specified bar.
SetBarHighlightFill( DatasetIndex as Integer, BarIndex as Integer, NewColor as Color )	Changes the bar fill highlight color for the specified bar.
SetBarHighlightStroke( DatasetIndex as Integer, BarIndex as Integer, NewColor as Color )	Changes the bar stroke highlight color for the specified bar.
SetBarStroke( DatasetIndex as Integer, BarIndex as Integer, NewColor as Color )	Changes the bar stroke color for specified bar.

### Properties

Name	Type	Default Value	Description
Animation	Boolean	True	When true, the chart will animate changes to data.
AnimationEasing	Easings	Linear	The motion style to use for animating chart elements.
AnimationSteps	Integer	60	Determines the number of frames to use for animating the chart.

Name	Type	Default Value	Description
BackgroundColor	Color	Transparent	If True applies a background color to the chart display. This color is not applied to the image returned by ImageData.
BezierCurve	Boolean	True	When True, lines will be curved using a bezier algorithm.
BezierCurveTension	Double	0.4	The tension on the curved line.
ChartType	ChartTypes	0	The type of chart to be displayed.
DatasetFill	Boolean	True	When using line charts, this will cause the data to display the background color associated with the dataset.
Datasets()	GraffitiWebChartDataset	Nil	The array containing the datasets for the current chart.
DatasetStroke	Boolean	True	Show the stroke line of the dataset.
DatasetStrokeWidth	Integer	2	The pixel width of the dataset stroke.
GridLineColor	Color	&c000000dd	The color used to draw the grid lines of the chart.
GridLineWidth	Integer	1	The pixel width of the grid line.
Image	Picture	Nil	A picture representation of the chart that is created when the AnimationComplete event fires.
ImageData	String(Read-Only)	""	A base64-encoded image string of the currently displayed chart.
LabelFontSize	Integer	12	Size of labels to use for chart axes.
LabelFontStyle	FontStyles	Normal	
Labels()	String	Nil	The array of dataset labels to use in the chart.
LabelsVisible	Boolean	True	Determines whether axis labels are displayed.
MultiTooltipTemplate	String	""	Template to use for displaying tooltips for multiple overlapping datapoints.
PointDotRadius	Integer	4	The size of the circle for each data point in applicable charts.
PointDotStrokeWidth	Integer	1	The width of the Point Dot's Stroke.
PointHitDetectionRadius	Integer	20	The pixel distance in which the data point will be hovered / clicked.
ScaleOverride	Boolean	False	If True, the chart will use the values in the other Scale properties for determining the scale of the chart, rather than automatically assigning values.
ScaleStart	Integer	0	The starting value of the Y-axis.
ScaleSteps	Integer	10	The number of steps in the Y-axis.
ScaleStepWidth	Integer	10	The width of the scale's individual steps. See Examples below for more information.

Name	Type	Default Value	Description
ShowGridLines	Boolean	True	Determines whether the grid lines will be displayed.
ShowPointDot	Boolean	True	If True, applicable charts will draw a circle over each data point in each dataset.
ShowToolTips	Boolean	True	If True, tooltips will be shown when hovering over data points.
TooltipFillColor	Color	&c000000	The background color for the displayed tooltips.
TooltipFontColor	Color	&cFFFFFF	The text color for the displayed tooltips.
TooltipTemple	String	""	Template to be used for displaying datapoint tooltips.
TooltipTitleFontColor	Color	&cFFFFFF	The text color used in displaying titles on the tooltips.

## Examples

### Random Bar Chart

```

dim r as new Random

for intDataset as Integer = 1 to 2
    dim cFillColor as Color = RGB( r.InRange( 0, 255 ), r.InRange( 0, 255 ),
r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cStrokeColor as Color = RGB( r.InRange( 0, 255 ), r.InRange( 0, 255
), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cPointColor as Color = RGB( r.InRange( 0, 255 ), r.InRange( 0, 255
), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cPointStrokeColor as Color = RGB( r.InRange( 0, 255 ), r.InRange( 0,
255 ), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cHighlightFill as Color = RGB( r.InRange( 0, 255 ), r.InRange( 0,
255 ), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cHighlightStroke as Color = RGB( r.InRange( 0, 255 ), r.InRange( 0,
255 ), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cPointHighlightColor as Color = RGB( r.InRange( 0, 255 ), r.InRange(
0, 255 ), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )
    dim cPointHighlightStrokeColor as Color = RGB( r.InRange( 0, 255 ),
r.InRange( 0, 255 ), r.InRange( 0, 255 ), r.InRange( 0, 255 ) )

    dim dataPoints() as Double
    for intCycle as Integer = 1 to 12
        dataPoints.Append( r.InRange( 0, 100 ) )
    next
    dim newData as GraffitiWebChartDataset = new GraffitiWebChartDataset(
"Bar " + Format( intDataset, "#" ), cFillColor, cStrokeColor,
cHighlightFill, cHighlightStroke, cPointColor, cPointStrokeColor,
cPointHighlightColor, cPointHighlightStrokeColor, dataPoints() )

```

```

    me.Datasets.Append( newData )
next

me.Labels = Array( "January", "February", "March", "April", "May", "June",
"July", "August", "September", "October", "November", "December" )
me.ChartType = GraffitiWebChart.TypeBar

```

## Random Doughnut Chart

```

dim newData as GraffitiWebChartDataset
dim cFillColor as Color
dim cHighlightFill as Color

dim r as new Random

for intCycle as Integer = 1 to 5
    cFillColor = RGB( r.InRange( 0, 255 ), r.InRange( 0, 255 ), r.InRange(
0, 255 ) )
    cHighlightFill = RGB( r.InRange( 0, 255 ), r.InRange( 0, 255 ),
r.InRange( 0, 255 ) )
    newData = new GraffitiWebChartDataset( "Part " + Format( intCycle, "#"
), r.InRange( 0, 100 ), cFillColor, cHighlightFill )
    me.Datasets.Append( newData )
next

me.ChartType = GraffitiWebChart.TypeDoughnut

```

## Chart Y-Axis Scaling

Let's say we want our bar chart to draw only a scale between 0 and 100, with steps each 10 points. We would set the properties of the chart instance as follows (either in the inspector or programmatically in the Open event):

```

chartInstance.ScaleOverride = True '// Override the default scale
chartInstance.ScaleStart = 0 '// Set our starting position to 0
chartInstance.ScaleSteps = 10 '// We want 10 total steps between 0 and 100
chartInstance.ScaleWidth = 10 '// Add an axis point every 10 values between
0 and 100 (0..10..20..30)

```

## Tooltip Templates

Anything in between <% and %> will be executed as JavaScript. For example:

```

<% if (label) { %> and later <% } %>

```

. Using <%= expr %> will print the value of the variable named by expr into the tooltip.

The available variables to print into the tooltip depends on the chart type. In general, the following variables are available:

Variable	Description
value	value of the data point
label	label for the position the data point is at
datasetLabel	label for the dataset the point is from
strokeColor	stroke color for the dataset
fillColor	fill color for the dataset
highlightFill	highlight fill color for the dataset
highlightStroke	highlight stroke color for the dataset

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