

ChartBuilder Demonstration Version

This version of the ChartBuilder control (GRAPH.VBX) has some important restrictions that render it suitable only for demonstration purposes while still illustrating ChartBuilder's key features.

- **The file GRAPH.DEM must be on the DOS path.** GRAPH.VBX must be able to open and read this file when it first loads.
- **This version restricts the number of data sets to two and limits the number of points per set to five.** Normally, the limit for a ChartBuilder graph is $\text{NumPoints} * \text{NumSets} < 6000$.
- **This version does not carry out requests to print, to copy to the Clipboard, or to write an image to a file.**
- **This version does not allow you to save a form containing a graph.** Attempting to save a form with a graph produced by the demonstration version of ChartBuilder will leave the form in a corrupt state.

Please do not use the demonstration version to add a graph to one of your own forms and then try to save the form. You will corrupt your form.

- **You cannot use this version to create a working .EXE program.** If you try to compile the project an executable file will be created but it will not work.

Version 2.2 New and Improved Graph Control

What's New

- **New graph types.** 3D Area, Tape, and Bubble.
- **Backdrops.** You can display a bitmap or metafile image behind a graph.
- **Hot graphs.** Bars/pie slices/lines/points trigger custom events when clicked on at run-time.
- **Curve fitting.** Ten different mathematical models.
- **Font control.** Select font family, size, and treatment for all graph text components.
- **QuickData property.** Enables fast data exchange with the Microsoft Grid control.
- **(Next), (Prev) and (This) properties.** Help in setting array data at design time.
- **Access to Graphics Server SDK.** New run-time properties and events help you use of the Graphics Server SDK in conjunction with ChartBuilder.

...And Improved

- **Speed.** Graph drawing is almost twice as fast as in ChartBuilder 1.0.
- **Appearance.** Label and legend text fitting in particular is much improved.
- **Control over X and Y axis.** You can now control axis scaling, ranging, labeling, and positioning.
- **XPosData.** Now allows true multiple data set X,Y graphs.
- **Array indexing.** The new of the IndexStyle property offers a choice of indexing methods.
- **Run-time data array access.** Several new run-time properties duplicate standard array property functions, but using them allows more elegant coding.
- **Printer control.** Now you can print hi-res graphs on the same page as other Visual Basic text and graphics.
- **More data points supported.** Now your graphs can show up to 6000 data points.

New or Enhanced Properties

Name	Comments
(About)	Display About Box (design time only).
(Help)	Display Windows Help for ChartBuilder (design time only).
(Next)	Increment ThisSet/ThisPoint (design time only).
(Prev)	Decrement ThisSet/ThisPoint (design time only).
(This)	Display current values of ThisSet/ThisPoint (design time only).
Backdrop	Backdrop file name (no extension required).
BackdropStyle	Backdrop style options: centred, tiled or stretched bitmap (.BMP) or stretched metafile (.WMF).
ColorData	Color data array for bars, pie-slices, etc. ENHANCED: Now enumerated.
CurveOrder	Order of polynomial used for curve fitting.
CurveSteps	Resolution of curve.
CurveType	Mathematical model used for curve fitting. Curve fitting applies only to scatter graphs.
DataReset	Reset any/all of the data arrays. ENHANCED: Can also reset font settings to their default values.
DrawMode	Drawing mode: Clear, Draw, Blit, Copy, Print, Write. ENHANCED: You can now print into the VB printer device context at run time (see PrintInfo run time property array).
ExtraData	Additional style data array. ENHANCED: Now enumerated.
FontFamily	Font family options: Roman, Swiss and Modern.
FontSize	Font size.
FontStyle	Italic, bold and underline font style options.
FontUse	Can specify font family, style and size for GraphTitle, Other Titles, Labels and Legends.

GraphType	Graph type. ENHANCED: New types are 3D Area, Tape and Bubble.
GridStyle	Turn horizontal and/or vertical grid lines on/off.
Hot	Controls the Hot Graph system.
ImageFile	Filename for image output (no extension required). File type (.BMP or .WMF) depends upon DrawMode.
IndexStyle	Data array index style. <i>Alternate</i> renamed <i>Enhanced</i> .
LabelEvery	Label every nth X axis tick position, default 1 (ie. every tick). Applies only if XPosData is not present.
Labels	ENHANCED: Turn X and Y axis labels on/off individually.
PatternData	Line/pattern style data array. ENHANCED: Now enumerated.
TickEvery	Tick every nth X axis data point, default 1 (ie. every point). Applies only if XPosData is not present.
Ticks	Turn X and Y axis ticks on/off individually.
XAxisMax	X axis max value. Applies only if X axis style is User-defined and XPosData is present.
XAxisMin	X axis min value. Applies only if X axis style is User-defined XPosData is present.
XAxisPos	X axis position: default, top or bottom.
XAxisStyle	X axis style: default, Variable Origin or User-defined.
XAxisTicks	Number of X axis ticks, default 1. Applies only if X axis style is User-defined.
XPosData	X-variable data (2-D data array, like GraphData).
YAxisMax	Y axis max value. Applies only if Y axis style is User-defined.
YAxisMin	Y axis min value. Applies only if Y axis style is User-defined.
YAxisPos	Y axis position: default, left or right.
YAxisStyle	Y axis style: default, Variable Origin or User-defined.
YAxisTicks	Number of Y axis ticks, default 1. Applies only if axis style is User-

defined.

New Run Time Properties

Name	Comments
QuickData	Get/set GraphData in a single operation. Useful for passing data to and from the Grid control.
Color()	Run-time array for ColorData (1-based).
Data()	Run-time array for GraphData (1-based). NB. Data set selected by ThisSet.
Extra()	Run-time array for ExtraData (1-based).
Label()	Run-time array for LabelText (1-based).
Legend()	Run-time array for LegendText (1-based).
Pattern()	Run-time array for PatternData (1-based).
Symbol()	Run-time array for SymbolData (1-based).
XPos()	Run-time array for XPosData (1-based). NB. Data set selected by ThisSet.
HWin	Handle of Graphics Server graph window (read-only).
HCtlWin	Handle of Graph Control window (read-only).
PrintInfo(1)	VB Printer Device Context (set = Printer.hDC).
PrintInfo(2)	X coordinate of top left of graph.
PrintInfo(3)	Y coordinate of top left of graph.
PrintInfo(4)	Width of graph.
PrintInfo(5)	Height of graph.
PrintInfo(6)	Scale Left (set = Printer.ScaleLeft).
PrintInfo(7)	Scale Top (set = Printer.ScaleTop).

PrintInfo(8)	Scale Width (set = Printer.ScaleWidth).
PrintInfo(9)	Scale Height (set = Printer.ScaleHeight).
SDKInfo(1)	X axis max (your data units)
SDKInfo(2)	X axis min (your data units)
SDKInfo(3)	Y axis max (your data units)
SDKInfo(4)	Y axis min (your data units)
SDKInfo(5)	X axis length (Graphics Server units)
SDKInfo(6)	Y axis length (Graphics Server units)
SDKInfo(7)	X origin (Graphics Server units)
SDKInfo(8)	Y origin (Graphics Server units)
SDKInfo(9)	Label font size (% of system font)
SDKMouse	Enables SDKHit and SDKPress events.
SDKPaint	Enables SDKPaint event.

New Custom Events

Name	Comments
HotHit	Triggered when a bar/pie-slice/line/point etc of a hot graph is clicked on. Enabled by the Hot property.
SDKHit	Triggered when a hot region is clicked on (hot regions can only be created if you have the Graphics Server SDK). Enabled by the SDKMouse property.
SDKPaint	Triggered after every graph draw. Enabled by SDKPaint property.
SDKPress	Triggered when a graph is clicked on. Enabled by the SDKMouse property.