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AnnularColor Property

Description

Determines the color of the annular currently selected by AnnularID.

Usage

[*form.*]*control.***AnnularColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions. See the **example** for more information on setting annular properties.

Related Properties

AnnularID, AnnularInnerRadius, AnnularOuterRadius, Annulars, AnnularStartValue and AnnularStopValue

Data Type

Long

AnnularID Property

Description

Assigns a unique ID to each annular. This property must be set before any other annular property (except Annulars). The total number of annulars is determined by the Annulars property and AnnularID has valid values from 0 to Annulars-1.

Usage

[*form.*]*control.***AnnularID**[= *integer*]

Remarks

The number of Annulars must be set before this property can be set. See the **example** for more information on setting annular properties.

Related Properties

AnnularColor, AnnularInnerRadius, AnnularOuterRadius, Annulars, AnnularStartValue and AnnularStopValue

Data Type

Integer

AnnularInnerRadius Property
AnnularOuterRadius Property

Description

Determines the inner and outer radii of the annular currently selected by AnnularID. These properties are based on a unitless scale and typically have values between 0.0 and 1.0**.**

Usage

[*form.*]*control.***AnnularInnerRadius**[= *single*]
[*form.*]*control.***AnnularOuterRadius**[= *single*]

Remarks

The inner radius should be less than the outer radius. If this is not the case, the control will not crash but the annular will not display. See the **example** for more information on setting annular properties.

Related Properties

AnnularColor, AnnularID, Annulars, AnnularStartValue and AnnularStopValue

Data Type

Single

AnnularStartValue Property
AnnularStopValue Property

Description

Determines the values at which the annular region begins and ends. The values are numbers between ScaleMinValue and ScaleMaxValue.

Usage

[*form.*]*control.***AnnularStartValue**[= *single*]
[*form.*]*control.***AnnularStopValue**[= *single*]

Remarks

The AnnularStartValue should be less than the AnnularStopValue. See the **example** for more information on setting annular properties.

Related Properties

AnnularColor, AnnularID, AnnularInnerRadius, AnnularOuterRadius and Annulars

Data Type

Single

ANNULARS PROPERTY

Description

Determines the number of annular regions displayed on the control. This property must be set before all other annular properties are entered (see example). The AnnularID property is used to select the region to which annular properties apply.

Usage

[*form.*]*control.***Annulars**[= *integer*]

Remarks

See the **example** for more information on setting annular properties.

Related Properties

AnnularColor, AnnularID, AnnularInnerRadius, AnnularOuterRadius, AnnularStartValue and AnnularStopValue

Data Type

Integer

AutoRedraw Property

Description

Determines whether the control is redraw manually or automatically.

Usage

[*form.*]*control.***AutoRedraw**[= {TRUE|FALSE}]

Setting

The property settings are:

Setting	Description
TRUE	Automatic (default) - The operating system will redraw the control when it has time.
FALSE	Manual - The user is responsible for all redraw commands.

Remarks

If AutoRedraw=**TRUE**, then the control will be redrawn after any property is changed. If several properties are being changed rapidly, then the control may seem slow and/or may not update when desired. In this case, it may be wise to set AutoRedraw=**FALSE** and issue a Redraw command after all the desired property changes are made.

Related Property

Redraw

Data Type

Integer (Boolean)

BackgroundColor Property

Description

Determines the background color of the control. It is ignored if BackgroundPicture is set.

Usage

[*form.*]*control.***BackgroundColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.

Data Type

Long

BackgroundPicture Property

Description

Determines the graphic to be displayed in the background of the control.

Usage

[*form.*]*control.***BackgroundPicture**[= *picture*]

Setting

The BackgroundPicture property settings are:

Setting	Description
(none)	No picture is displayed.
(bitmap)	At design time, specify the bitmap file name to be displayed. At run-time, specify the bitmap using Visual Basic's **LoadPicture** (or comparable) function.

Remarks

When setting the picture at design-time, the picture will be saved with the form and will be compiled into the executable.

Data Type

Picture

BevelInner Property
BevelOuter Property

Description

Sets or returns the inner or outer shadow styles of the control.

Usage

[*form.*]*control.***BevelInner**[= *integer*]
[*form.*]*control.***BevelOuter**[= *integer*]

Setting

The property settings are:

Setting	Description
0	None
1	Raised
2	Inset

Remarks

These properties have no affect when BevelWidth=0.

Related Properties

BevelWidth and BorderWidth

Data Type

Integer (Enumerated)

BevelWidth Property

Description

Sets or returns the shadow sizes of the inner and outer bevels of the control.

Usage

[*form.*]*control.***BevelWidth**[= *integer*]

Related Properties

BevelInner, BevelOuter and BorderWidth

Data Type

Integer

BORDERTYPE PROPERTY

Description

Sets or returns the style of the border around the control.

Usage

[*form.*]*control.***BorderType**[= *integer*]

Setting

The BoderType property settings are:

Setting	Description
0 (None)	Border is not displayed.
1 (Bevel)	3D beveled border is displayed using BevelInner, BevelOuter, BevelWidth and BorderWidth properties.
2 (Outline)	Frame style border is displayed using OutlineAlign, OutlineColor, OutlineTitle and OutlineWidth properties.

Data Type

Integer (Enumerated)

BORDERWIDTH PROPERTY

Description

Sets or returns the border size between the inner and outer bevels of the control.

Usage

[*form.*]*control.***BorderWidth**[= *integer*]

Related Properties

BevelInner, BevelOuter and BevelWidth

Data Type

Integer

CAPTION PROPERTY

Description

Determines the text displayed on the control for the caption currently selected by CaptionID.   The number of captions displayed is set using the Captions property.

Usage

[*form.*]*control.***Caption**[= *string*]

Remarks

See the **example** for more information on setting caption properties.

Related Properties

CaptionColor, CaptionFontID, CaptionID, Captions, CaptionX and CaptionY

Data Type

String

CaptionColor Property

Description

Determines the text color for the caption currently selected by CaptionID.

Usage

[*form.*]*control.***CaptionColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions. See the **example** for more information on setting caption properties.

Related Properties

Caption, CaptionFontID, CaptionID, Captions, CaptionX and CaptionY

Data Type

Long

CaptionFontID Property

Description

Determines which font (designated by FontID) is used for the caption currently selected by CaptionID.

Usage

[*form.*]*control.***CaptionFontID**[= *integer*]

Remarks

See the **example** for more information on setting caption properties.

Related Properties

Caption, CaptionColor, CaptionID, Captions, CaptionX and CaptionY

Data Type

Integer

CaptionID Property

Description

Assigns a unique ID to each caption. This property must be set before any other caption property (except Captions). The total number of captions is determined by the Captions property and CaptionID has valid values from 0 to Captions-1.

Usage

[*form.*]*control.***CaptionID**[= *integer*]

Remarks

The number of Captions must be set before this property can be set. See the **example** for more information on setting caption properties.

Related Properties

Caption, CaptionColor, CaptionFontID, Captions, CaptionX and CaptionY

Data Type

Integer

CaptionX Property
CaptionY Property

Description

Determines the vertical and horizontal position of the caption currently selected by the CaptionID property. These properties are based on a unitless scale and typically have values between -1.0 and 1.0 where a value of 0.0 is located at the center of the control.

Usage

[*form.*]*control.***CaptionX**[= *single*]
[*form.*]*control.***CaptionY**[= *single*]

Remarks

See the **example** for more information on setting caption properties.

Related Properties

Caption, CaptionColor, CaptionFontID, CaptionID and Captions

Data Type

Single

CAPTIONS PROPERTY

Description

Determines the number of captions displayed on the control.   This property must be set before all other caption properties are entered (see example).   The CaptionID property is used to select the caption to which caption properties apply.

Usage

[*form.*]*control.***Captions**[= *integer*]

Remarks

See the **example** for more information on setting caption properties.

Related Properties

Caption, CaptionColor, CaptionFontID, CaptionID, CaptionX and CaptionY

Data Type

Integer

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Knob Control

Properties Events Product Support Copyright

Description:

This control is a highly customizable knob or dial control. Properties are provided to modify knob style, mark, scale, tics, annulars, captions, border and background. The mouse may optionally be used to change knob values. Additionally, there are snap and multiturn functions.

Scale:

Scale is used to define the extent of the units displayed on the knob, the location of the knob center, and the knob's start and stop angles.

Knobs:

There are several styles of knobs. Properties are provided to modify the knob's style, inner-outer radii, width, and color. Additionally, user defined knob shapes may be specified.

Mark:

Each knob may be adorned with a single mark. Properties are provided to modify the mark's style, inner-outer radii, width, and color. Additionally, user defined mark shapes may be incorporated into the control.

Tics:

Tics are used to mark intervals on the control face. Properties are provided to set the tic's style, start-stop values, interval, inner-outer radii, width, color, and label positions.

Annulars:

Annulars are used for aesthetics as well as indicators of operating ranges. Properties are provided to modify annular's start-stop values, inner-outer radii, and color. Multiple annular regions can be placed on a single control.

Captions:

The control can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labeling.

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Digital Property

Description

Enables or disables the digital display of the KnobValue on the control.

Usage

[*form.*]*control.***Digital**[= {TRUE|FALSE}]

Setting

The property settings are:

Setting	Description
TRUE	A digital readout of the current KnobValue is displayed.
FALSE	No digital display.

Related Properties

DigitalColor, DigitalDecimals, DigitalFontID, DigitalX, DigitalY and KnobValue

Data Type

Integer (Boolean)

DIGITALCOLOR PROPERTY

Description

Determines the color of the digital display (if Digital=**TRUE**).

Usage

[*form.*]*control.***DigitalColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.

Related Properties

Digital, DigitalDecimals, DigitalFontID, DigitalX, DigitalY and KnobValue

Data Type

Long

DIGITALDECIMALS PROPERTY

Description

Determines how many places (to the right of the decimal) are displayed in the digital display (if Digital=**TRUE**).

Usage

[*form.*]*control.***DigitalDecimals**[= *integer*]

Related Properties

Digital, DigitalColor, DigitalFontID, DigitalX, DigitalY and KnobValue

Data Type

Integer

DIGITALFONTID PROPERTY

Description

Determines which font (designated by FontID) is used for the digital display.

Usage

[*form.*]*control.***DigitalFontID**[= *integer*]

Related Properties

Digital, DigitalColor, DigitalDecimals, DigitalX, DigitalY and KnobValue

Data Type

Integer

DigitalX Property
DigitalY Property

Description

Determines the vertical and horizontal position of the digital display.   These properties are based on a unitless scale and typically have values between -1.0 and 1.0 where a value of 0.0 is located at the center of the control.

Usage

[*form.*]*control.***DigitalX**[= *single*]
[*form.*]*control.***DigitalY**[= *single*]

Related Properties

Digital, DigitalColor, DigitalDecimals, DigitalFontID and KnobValue

Data Type

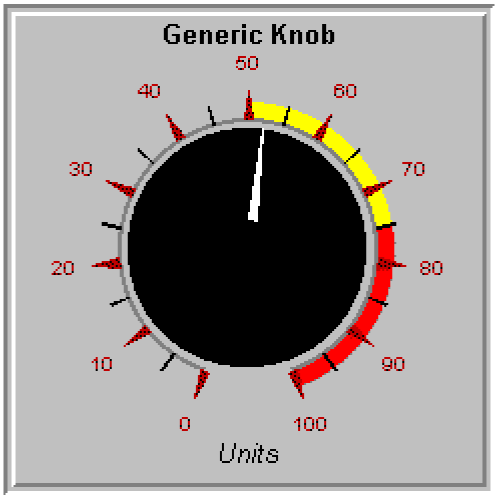
Single

Events:

Click
DragDrop
DragOver
GotFocus
KeyDown
KeyPress
KeyUp
LostFocus
MouseDown
MouseMove
MouseUp
Turn

Example - How to build a Knob

General Information



This example will explain the process of building a generic knob. The final product is shown in Figure 1. The purpose of this example is to show how several of the control's properties relate to each other. For example, it depicts how to use the Tic properties to setup multiple tic sets (with or without labels) to obtain a desired appearance. In general, the steps for setting up tic marks are as follows: **1)** set the number of tic sets (Knob1.Tics=2); **2)** set the unique id for the tic set (Knob1.TicID=0); **3)** set the other tic properties (Knob1.TicColor=&HF&); and **4)** change TicID and repeat step 3 if desired. This same process is used to set the properties for all indexed items contained in the control (annulars, captions, fonts, etc.). For simplicity, the steps for setting up this example are written out in Visual Basic script. However, the values may also be assigned using the property list at design time.

Sample Code

```
'setup scale
Knob1.ScaleStartAngle = -160
Knob1.ScaleStopAngle = 160
Knob1.ScaleMinValue = 0
Knob1.ScaleMaxValue = 100
Knob1.ScaleDirection = 0

'setup fonts
Knob1.Fonts = 3

Knob1.FontID = 0
Knob1.FontBold = True
Knob1.FontName = "Arial"
Knob1.FontSize = 12

Knob1.FontID = 1
Knob1.FontBold = False
Knob1.FontItalic = True
Knob1.FontName = "Arial"
Knob1.FontSize = 12

Knob1.FontID = 2
Knob1.FontBold = False
Knob1.FontItalic = False
Knob1.FontName = "Arial"
Knob1.FontSize = 10

'setup tic marks
```

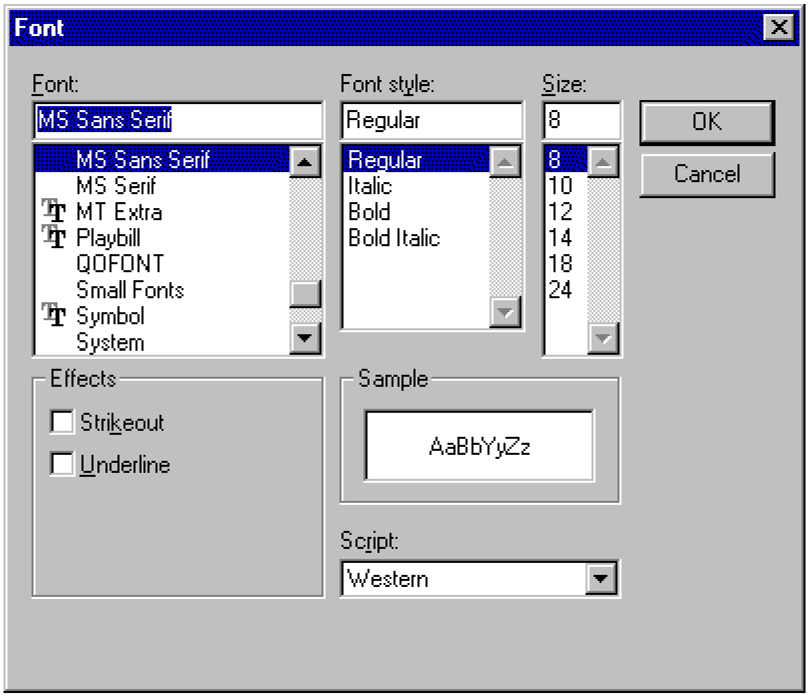
```
Knob1.Tics = 2

Knob1.TicID = 0
Knob1.TicStyle = 1
Knob1.TicWidth = 0.05
Knob1.TicColor = &H80&
Knob1.TicDeltaValue = 10
Knob1.TicStartValue = 0
Knob1.TicStopValue = 100
Knob1.TicInnerRadius = 0.7
Knob1.TicOuterRadius = 0.85
Knob1.TicLabel = True
Knob1.TicLabelRadius = 1
Knob1.TicFontID = 2

Knob1.TicID = 1
Knob1.TicStyle = 0
Knob1.TicWidth = 0.01
Knob1.TicDeltaValue = 10
Knob1.TicStartValue = 5
Knob1.TicStopValue = 95
Knob1.TicInnerRadius = 0.7
Knob1.TicOuterRadius = 0.8

'setup annulars
Knob1.Annulars = 3

Knob1.AnnularID = 0
Knob1.AnnularStartValue = 50
Knob1.AnnularStopValue = 75
Knob1.AnnularInnerRadius = 0.7
Knob1.AnnularOuterRadius = 0.8
Knob1.AnnularColor = &HFFFF&

Knob1.AnnularID = 1
Knob1.AnnularStartValue = 75
Knob1.AnnularStopValue = 100
Knob1.AnnularInnerRadius = 0.7
Knob1.AnnularOuterRadius = 0.8
Knob1.AnnularColor = &HFF&

Knob1.AnnularID = 2
Knob1.AnnularStartValue = 0
Knob1.AnnularStopValue = 100
Knob1.AnnularInnerRadius = 0.68
Knob1.AnnularOuterRadius = 0.71
Knob1.AnnularColor = &H808080

'setup captions
Knob1.Captions = 2

Knob1.CaptionID = 0
Knob1.CaptionFontID = 0
Knob1.Caption = "Generic Knob"
Knob1.CaptionX = 0
Knob1.CaptionY = 1.15

Knob1.CaptionID = 1
Knob1.CaptionFontID = 1
Knob1.Caption = "Units"
Knob1.CaptionX = 0
Knob1.CaptionY = -1.1

'setup knob
Knob1.KnobStyle = 0
Knob1.KnobRadius = 0.65
Knob1.KnobValue = 52.1135
Knob1.KnobColor = &H0&
```

```
'setup mark
Knob1.MarkStyle = 2
Knob1.MarkInnerRadius = 0.25
Knob1.MarkOuterRadius = 1
Knob1.MarkWidth = 0.3
Knob1.MarkColor = &HFFFFFF
```

FontDialog Property

Description

Selecting this property (in design mode) launches the font dialog box shown below. This dialog sets the font properties for the font currently selected by FontID.



Font: MS Sans Serif

Font style: Regular

Size: 8

□ Strikeout

□ Underline

Script: Western

Usage

This property can only be used at design time. Use standard font properties to set fonts in code.

Related Properties

FontBold, FontID, FontItalic, FontName, Fonts, FontSize, FontStrike and FontUnder

Data Type

N/A

FontID Property

Description

This property allows the control to display several different fonts by assigning a unique ID to each font. The total number of fonts is determined by the Fonts property and FontID has valid values from 0 to Fonts-1.

Usage

[*form.*]*control.***FontID**[= *integer*]

Remarks

The desired font is obtained by selecting the corresponding FontID (through the use of CaptionFontID for example). See the **example** for more information on setting font properties.

Related Properties

CaptionFontID, DigitalFontID, FontBold, FontDialog, FontItalic, FontName, Fonts, FontSize, FontStrike, FontUnder and TicFontID

Data Type

Integer

FONTS PROPERTY

Description

Determines the number of fonts displayed on the control. This property must be set before all other font properties are entered (see example). The FontID is used to select the font to which other font properties apply.

Usage

[*form.*]*control.***Fonts**[= *integer*]

Remarks

See the **example** for more information on setting font properties.

Related Properties

CaptionFontID, DigitalFontID, FontBold, FontDialog, FontID, FontItalic, FontName, FontSize, FontStrike, FontUnder and TicFontID

Data Type

Integer

FrameColor Property

Description

Determines the frame color surrounding the control's face.

Usage

[*form.*]*control.***FrameColor**[= *color*]

Remarks

This property only applies when FrameStyle is set and FramePicture has not been specified. This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.

Related Properties

FramePicture, FrameScaleX, FrameScaleY and FrameStyle

Data Type

Long

FramePicture Property

Description

Determines the graphic to be displayed in the frame surrounding the control's face.

Usage

[*form.*]*control.***FramePicture**[= *picture*]

Setting

The FramePicture property settings are:

Setting	Description
(none)	No picture is displayed.
(bitmap)	At design time specify the bitmap file name to be displayed. At run-time specify the bitmap using Visual Basic's **LoadPicture** (or comparable) function.

Remarks

This property only applies when FrameStyle is set. When setting the picture at design-time, the picture will be saved with the form and will be compiled into the executable.

Related Properties

FrameColor, FrameScaleX, FrameScaleY and FrameStyle

Data Type

Picture

FrameScaleX Property
FrameScaleY Property

Description

Determines the vertical and horizontal size of the opening inside of the frame surrounding the control. For a circular FrameStyle, FrameScaleY is ignored and FrameScaleX is used to define the radius of the opening inside the frame surrounding the control.   This property is based on a unitless scale and typically has values between 0.0 and 1.0.

Usage

[*form.*]*control.***FrameScaleX**[= *single*]
[*form.*]*control.***FrameScaleY**[= *single*]

Related Properties

FrameColor, FramePicture and FrameStyle

Data Type

Single

FrameStyle Property

Description

Sets or returns the style of the frame surrounding the control.

Usage

[*form.*]*control.***FrameStyle**[= *integer*]

Setting

The FrameStyle property settings are:

Setting	Description
0 (None)	A frame is not displayed.
1 (Circle)	A circular frame is displayed using FrameScaleX as the internal radius.
2 (Rectangle)	A rectangular frame is displayed using FrameScaleX and FrameScaleY properties to size the interior size of the frame.

Related Properties

FrameColor, FramePicture, FrameScaleX and FrameScaleY

Data Type

Integer (Enumerated)

KNOBCOLOR PROPERTY

Description

Determines the knob's color.

Usage

[*form.*]*control.***KnobColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.

Related Properties

KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobStyle, KnobUserDefined and KnobValue

Data Type

Long

KnobMultiTurn Property

Description

This property determines whether or not the knob can turn through multiple revolutions. The number of revolutions is dependent on the KnobMultiTurnValue property.

Usage

[*form.*]*control.***KnobMultiTurn**[= {TRUE|FALSE}]

Setting

The property settings are:

Setting	Description
TRUE	Multiple knob revolutions are allowed.
FALSE	Limits the knob to one revolution as defined by ScaleStartAngle and ScaleStopAngle (default).

Related Properties

KnobColor, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobStyle, KnobUserDefined and KnobValue

Data Type

Integer (Boolean)

KnobMultiTurnValue Property

Description

This property is used to determine how many revolutions a knob can turn. The number of revolutions is determined by the knob's maximum value (ScaleMaxValue) divided by the KnobMultiTurnValue property. For example, a knob where ScaleMaxValue=500 and KnobMultiTurnValue=100 can make 5 complete revolutions.

Usage

[*form.*]*control.***KnobMultiTurnValue**[= integer]

Remarks

This property is ignored if KnobMultiTurn=**FALSE**.

Related Properties

KnobColor, KnobMultiTurn, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobStyle, KnobUserDefined and KnobValue

Data Type

Integer

KnobPicture Property

Description

Determines the graphic to be displayed as the knob. Unlike knobs which are defined using the KnobStyle property, a knob defined by a picture does not rotate. The rotating effect is simulated by rotating the knob's mark.

Usage

[*form.*]*control.***KnobPicture**[= *picture*]

Setting

The BackgroundPicture property settings are:

Setting	Description
(none)	No picture is displayed and the knob is defined by KnobStyle.
(bitmap)	At design time, specify the bitmap file name to be displayed. At run-time, specify the bitmap using Visual Basic's **LoadPicture** (or comparable) function.

Remarks

Bitmaps with transparent backgrounds are not supported. When setting the picture at design-time, the picture will be saved with the form and will be compiled into the executable.

Related Properties

KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobStyle, KnobUserDefined and KnobValue

Data Type

Picture

KnobRadius Property

Description

Determines the outer radius of the knob. This property is based on a unitless scale and typically has values between 0.0 and 1.0**.**

Usage

[*form.*]*control.***KnobRadius**[= *single*]

Remarks

The outer radius should be greater than zero.

Related Properties

KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobSnap, KnobSnapIncrement, KnobStyle, KnobUserDefined and KnobValue

Data Type

Single

KnobSnap Property

Description

Enables or disables the control's ability to display any value within the range defined by ScaleMinValue and ScaleMaxValue. For example, if the scale ranges from 0 to 10, KnobSnap=**TRUE** and KnobSnapIncrement=2, then KnobValue can only have the values 0, 2, 4, 6, 8 and 10.

Usage

[*form.*]*control.***KnobSnap**[= {TRUE|FALSE}]

Setting

The property settings are:

Setting	Description
TRUE	Limits KnobValue to the increments defined by KnobSnapIncrement.
FALSE	Enables KnobValue to have any floating point value within the range defined by the scale (default).

Related Properties

KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnapIncrement, KnobStyle, KnobUserDefined and KnobValue

Data Type

Integer (Boolean)

KnobSnapIncrement Property

Description

Determines the allowable incremental change of the knob's value if KnobSnap=**TRUE**. For example, a control where the knob scale is 0 to 10 and KnobSnapIncrement=2 will only allow KnobValues of 0, 2, 4, 6, 8, and 10.

Usage

[*form.*]*control.***KnobSnapIncrement**[= *integer*]

Remarks

This property is ignored if KnobSnap=**FALSE**.

Related Properties

KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobStyle, KnobUserDefined and KnobValue

Data Type

Integer

KnobStyle Property

Description

Sets or returns the style of the knob.

Usage

[*form.*]*control.***KnobStyle**[= *integer*]

Setting

The KnobStyle property settings are:

Setting	Description
0	Circular
1	Pointer
2	Complex
3	Faucet
4	User-defined shape
5	User-defined bitmap

Related Properties

KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobUserDefined and KnobValue

Data Type

Integer (Enumerated)

KnobUserDefined Property
MarkUserDefined Property

Description

Determines the shape of a user defined knob or mark. This property only applies when KnobStyle = 4 (for knobs) or when MarkStyle=4 (for marks). These properties define a polygon made from a list of x,y coordinate pairs (comma delimited). The shape is defined using a coordinate system in which (0,0) is located at the center of the knob and the "pointer" of the knob (or tip of the mark) is typically defined as (0,1000).

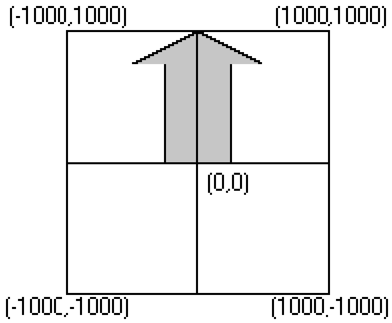
Usage

[*form.*]*control.***KnobUserDefined**[= *string*]
[*form.*]*control.***MarkUserDefined**[= *string*]

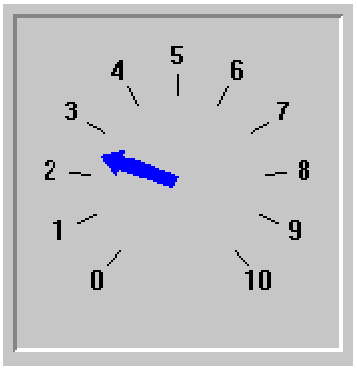
Example

Knob1.MarkUserDefined = "250,0, 250,750, 500,750, 0,1000, -500,750, -250,750, -250,0"

The following image displays the shape defined in a coordinate system with origin at (0,0) and (1000,1000) extents.



The following image is a screen snap shot of the above shape used in a simple control (knob not shown).



Related Properties

KnobUserDefined: KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobStyle and KnobValue
MarkUserDefined**:** MarkColor, MarkInnerRadius, MarkOuterRadius, MarkStyle and MarkWidth

Data Type

String

KnobValue Property

Description

Sets or returns the value of the knob. The KnobValue is a number between ScaleMinValue and ScaleMaxValue.

Usage

[*form.*]*control.***KnobValue**[= *single*]

Related Properties

KnobColor, KnobMultiTurn, KnobMultiTurnValue, KnobPicture, KnobRadius, KnobSnap, KnobSnapIncrement, KnobStyle and KnobUserDefined

Data Type

Single

MarkColor Property

Description

Determines the knob mark's color.

Usage

[*form.*]*control.***MarkColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.

Related Properties

MarkInnerRadius, MarkOuterRadius, MarkStyle, MarkUserDefined and MarkWidth

Data Type

Long

MarkInnerRadius Property
MarkOuterRadius Property

Description

Determines the inner and outer radii of the knob's mark. The scale of these properties is based on the knob's size . For example, an inner radius of 0.0 and an outer radius of 1.0 yields a mark from the knob's center to its outer edge.

Usage

[*form.*]*control.***MarkInnerRadius**[= *single*]
[*form.*]*control.***MarkOuterRadius**[= *single*]

Remarks

The inner radius should be less than the outer radius.

Related Properties

MarkColor, MarkStyle, MarkUserDefined and MarkWidth

Data Type

Single

MarkStyle Property

Description

Sets or returns the style of the knob's mark.

Usage

[*form.*]*control.***MarkStyle**[= *integer*]

Setting

The MarkStyle property settings are:

Setting	Description
0	None
1	Circular
2	Triangular
3	Arrow
4	User-defined

Related Properties

MarkColor, MarkInnerRadius, MarkOuterRadius, MarkUserDefined and MarkWidth

Data Type

Integer (Enumerated)

MarkWidth Property

Description

Determines the width of the knob's mark. This property is based on a unitless scale and typically has values between 0.0 and 1.0.

Usage

[*form.*]*control.***MarkWidth**[= *single*]

Related Properties

MarkColor, MarkInnerRadius, MarkOuterRadius, MarkStyle and MarkUserDefined

Data Type

Single

MouseControl Property

Description

Enables and disables mouse input to the control.

Usage

[*form.*]*control.***MouseControl**[= {TRUE|FALSE}]

Setting

The MouseControl property settings are:

Setting	Description
TRUE	Allows the control's value to be modified with mouse input.
FALSE	Disables mouse input to the control.

Data Type

Integer (Boolean)

OUTLINEALIGN PROPERTY

Description

Determines the alignment of the OutlineTitle at the top of the control. This property only applies when BorderType is set to 2 (Outline).

Usage

[*form.*]*control.***OutlineAlign**[= *integer*]

Setting

The OutlineAlign property settings are:

Setting	Description
0	Left
1	Right
2	Center

Related Properties

BorderType, OutlineColor, OutlineTitle and OutlineWidth

Data Type

Integer (Enumerated)

OutlineColor Property

Description

Determines the color of the outline frame (and OutlineTitle) surrounding the control when BorderType is set to 2 (Outline).

Usage

[*form.*]*control.***OutlineColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.

Related Properties

BorderType, OutlineAlign, OutlineTitle and OutlineWidth

Data Type

Long

OUTLINETITLE PROPERTY

Description

Determines the text displayed as the title in the outline frame surrounding the control when the BorderType is set to 2 (Outline).

Usage

[*form.*]*control.***OutlineTitle**[= *string*]

Related Properties

BorderType, OutlineAlign, OutlineColor and OutlineWidth

Data Type

String

OutlineWidth Property

Description

Determines the thickness (in pixels) of the outline frame surrounding the control when BorderType is set to 2 (Outline).

Usage

[*form.*]*control.***OutlineWidth**[= *integer*]

Related Properties

BorderType, OutlineAlign, OutlineColor and OutlineTitle

Data Type

Integer

Product Support

Product support for all products is available to registered users by contacting **Global Majic Software, Inc.** at any of the following locations:

CompuServe:	73261,3642
AmericaOnline:	GMagic
Internet:	gms@globalmajic.com
Snail Mail:	Global Majic Software, Inc. P.O. Box 322 Madison, Alabama 35758
TEL/FAX:	(205) 864-0708
Home Page:	http://www.globalmajic.com

Product Support is free for a period of three (3) months from the date of registration.

If you have a shareware-related problem or dispute that you are unable to resolve with **Global Majic Software, Inc.**, please feel free to contact the Association of Shareware Professionals.

Properties:

AnnularColor
AnnularID
AnnularInnerRadius
AnnularOuterRadius
Annulars
AnnularStartValue
AnnularStopValue
AutoRedraw
BackgroundColor
BackgroundPicture
BevelInner
BevelOuter
BevelWidth
BorderType
BorderWidth
Caption
CaptionColor
CaptionFontID
CaptionID
Captions
CaptionX
CaptionY
Digital
DigitalColor
DigitalDecimals
DigitalFontID
DigitalX
DigitalY
Enabled
FontBold
FontDialog
FontID
FontItalic
FontName
Fonts
FontSize
FontStrike
FontUnder
FrameColor
FramePicture
FrameScaleX
FrameScaleY
FrameStyle
Height
Index
KnobColor
KnobMultiTurn
KnobMultiTurnValue
KnobPicture
KnobRadius
KnobSnap
KnobSnapIncrement
KnobStyle
KnobUserDefined
KnobValue
Left
MarkColor
MarkInnerRadius
MarkOuterRadius
MarkStyle
MarkUserDefined
MarkWidth
MouseControl
MousePointer
Name
OutlineAlign
OutlineColor
OutlineTitle
OutlineWidth
Redraw
ScaleDirection
ScaleMaxValue
ScaleMinValue
ScaleOriginX
ScaleOriginY
ScaleStartAngle
ScaleStopAngle
TabIndex
TabStop
Tag
TicColor
TicDeltaValue
TicFontID
TicID
TicInnerRadius
TicLabel
TicLabelRadius
TicOuterRadius
Tics
TicStartValue
TicStopValue
TicStyle
TicWidth
Top
Visible
Width

Redraw Property

Description

Issues a redraw command to the control if AutoRedraw=**FALSE**.

Usage

[*form.*]*control.***Redraw**[= {TRUE|FALSE}]

Setting

The property settings are:

Setting	Description
TRUE	Issue a redraw command.
FALSE	Does not issue redraw command.

Remarks

If AutoRedraw=**TRUE**, then the control will be redrawn after any property is changed. If several properties are being changed rapidly, then the control may seem slow and/or may not update when desired. In this case, it may be wise to set AutoRedraw=**FALSE** and issue a Redraw command after all the desired property changes are made.

Related Property

AutoRedraw

Data Type

Integer (Boolean)

SCALEDIRECTION PROPERTY

Description

Determines the direction of increasing values for the control (from ScaleMinValue to ScaleMaxValue).

Usage

[*form.*]*control.***ScaleDirection**[= *integer*]

Setting

The ScaleDirection property settings are:

Setting	Description
0	Clockwise
1	Counter Clockwise

Related Properties

ScaleMaxValue, ScaleMinValue, ScaleOriginX, ScaleOriginY, ScaleStartAngle and ScaleStopAngle

Data Type

Integer (Enumerated)

ScaleMaxValue Property
ScaleMinValue Property

Description

Determines the maximum and minimum values displayed by the scale**.**

Usage

[*form.*]*control.***ScaleMaxValue**[= *single*]
[*form.*]*control.***ScaleMinValue**[= *single*]

Remarks

The ScaleMaxValue should be greater than the ScaleMinValue.

Related Properties

ScaleDirection, ScaleOriginX, ScaleOriginY, ScaleStartAngle and ScaleStopAngle.

Data Type

Single

ScaleOriginX Property
ScaleOriginY Property

Description

Determines the vertical and horizontal position of the knob's center. These properties are based on a unitless scale and typically have values between -1.0 and 1.0, where a value of 0.0 is located in the center of the control.

Usage

[*form.*]*control.***ScaleOriginX**[= *single*]
[*form.*]*control.***ScaleOriginY**[= *single*]

Related Properties

ScaleDirection, ScaleMaxValue, ScaleMinValue, ScaleStartAngle and ScaleStopAngle

Data Type

Single

SCALESTARTANGLE PROPERTY
SCALESTOPANGLE PROPERTY

Description

Determines the angular extents of the control. When ScaleDirection is set to 0 (Clockwise), the ScaleStartAngle corresponds to ScaleMinValue and when ScaleDirection is set to 1 (Counter Clockwise), the ScaleStartAngle corresponds to ScaleMaxValue. The ScaleStopAngle property behaves in a similar fashion.

Usage

[*form.*]*control.***ScaleStartAngle**[= *single*]
[*form.*]*control.***ScaleStopAngle**[= *single*]

Remarks

Start and stop angles are bound between 0 and 360 degrees. Values outside this range are automatically corrected.

Related Properties

ScaleDirection, ScaleMaxValue, ScaleMinValue, ScaleOriginX and ScaleOriginY

Data Type

Single

TicColor Property

Description

Determines the color for the tic set currently selected by TicID.

Usage

[*form.*]*control.***TicColor**[= *color*]

Remarks

This property can be set using Visual Basic's **RGB** or **QBColor** (or comparable) functions.   See the **example** for more information on setting tic properties.

Related Properties

TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Long

TICDELTAVALUE PROPERTY

Description

Determines the interval value between tic marks for the tic set currently selected by TicID.

Usage

[*form.*]*control.***TicDeltaValue**[= *single*]

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicFontID, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Single

TicFontID Property

Description

Determines which font (designated by FontID) is used for the labels of the tic set currently selected by TicID.

Usage

[*form.*]*control.***TicFontID**[= *integer*]

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Integer

TicID Property

Description

Assigns a unique ID to each tic set. This property must be set before any other tic property (except Tics). The total number of tic sets is determined by the Tics property and TicID has valid values from 0 to Tics-1.

Usage

[*form.*]*control.***TicID**[= *integer*]

Remarks

The number of Tics must be set before this property can be set. See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Integer

TicInnerRadius Property
TicOuterRadius Property

Description

Determines the inner and outer radii of the tic set currently selected by TicID. These properties are based on a unitless scale and typically have values between 0.0 and 1.0**.**

Usage

[*form.*]*control.***TicInnerRadius**[= *single*]
[*form.*]*control.***TicOuterRadius**[= *single*]

Remarks

The inner radius should be less than the outer radius. See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicLabel, TicLabelRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Single

TicLabel Property

Description

Enables and disables labels at each tic mark for the tic set currently selected by TicID. The position of the tic labels is defined by the TicLabelRadius property.

Usage

[*form.*]*control.***TicLabel**[= {TRUE|FALSE}]

Setting

The TicLabel property settings are:

Setting	Description
TRUE	Labels are displayed.
FALSE	Labels are NOT displayed.

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Integer (Boolean)

TicLabelRadius Property

Description

Sets or returns the radius where labels are displayed for the tic set currently selected by TicID. This property is based on a unitless scale and typically has values between 0.0 and 1.0**.**

Usage

[*form.*]*control.***TicLabelRadius**[= *single*]

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabel, TicOuterRadius, Tics, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Single

TicStartValue Property
TicStopValue Property

Description

Determines the value at which the tic marks start and stop for the tic set currently selected by TicID. These values are numbers between ScaleMinValue and ScaleMaxValue.

Usage

[*form.*]*control.***TicStartValue**[= *single*]
[*form.*]*control.***TicStopValue**[= *single*]

Remarks

The TicStartValue should be less than the TicStopValue.   See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStyle and TicWidth

Data Type

Single

TicStyle Property

Description

Determines the style of the tic set currently selected by TicID.

Usage

[*form.*]*control.***TicStyle**[= *integer*]

Setting

The TicStyle property settings are:

Setting	Description
0	Rectangle
1	Triangle
2	Diamond
3	Circle

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue and TicWidth

Data Type

Integer (Enumerated)

TICWIDTH PROPERTY

Description

Determines the width of the tic marks for the tic set currently selected by TicID. This property is based on a unitless scale and typically has values between 0.0 and 1.0.

Usage

[*form.*]*control.***TicWidth**[= *single*]

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, Tics, TicStartValue, TicStopValue and TicStyle

Data Type

Single

TICS PROPERTY

Description

Determines the number of tic sets displayed on the control. This property must be set before all other tic properties are entered (see example). The TicID property is used to select the tic set to which the tic properties apply.

Usage

[*form.*]*control.***Tics**[= *integer*]

Remarks

See the **example** for more information on setting tic properties.

Related Properties

TicColor, TicDeltaValue, TicFontID, TicID, TicInnerRadius, TicLabel, TicLabelRadius, TicOuterRadius, TicStartValue, TicStopValue, TicStyle and TicWidth

Data Type

Integer

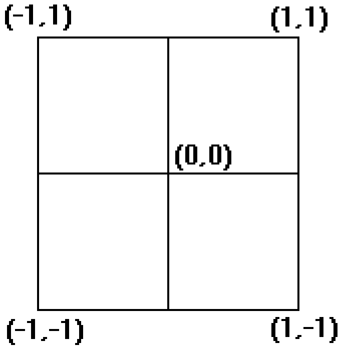
A **TURN** event is fired every time the control's value changes while the left mouse button is down.

FontBold, FontItalic, FontName, FontSize, FontStrike and FontUnder

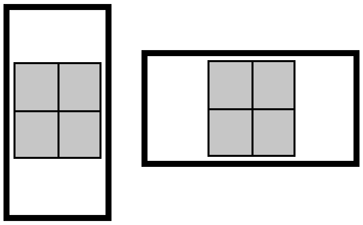
UNITLESS SCALE

Description:

Properties which are used to specify position or length use a scale which is based on the size of the control (instead of twips or pixels). For a control which is square, the coordinate system used is depicted with its origin at the center of the control and its width and height measured from -1 to 1.



For controls which are not square, the origin is still at the center of the control. The unit scale used, however, is based on the width or height whichever is smaller so that a unit square fits completely within the control as shown in the two controls below.



NOTE: For some variables (i.e., radii, width, etc.), the valid range of the unitless scale is from 0 to 1 (negative values have no meaning)