

gradientslider_gc

COLLABORATORS

	<i>TITLE :</i> gradientslider_gc		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		July 19, 2024	

REVISION HISTORY

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Chapter 1

gradientslider_gc

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gradientslider.gadget ()
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NAME

gradientslider.gadget -- create a slider with a range of colors as its background. (V39)

FUNCTION

The gradientslider gadget class is a type of non-proportional slider. The primary feature of the gradient slider is its appearance. Unlike normal sliders, a gradient slider can display a "spread of colors" or "color gradient" in the slider container box. The "knob" or "thumb" of the slider appears to slide on top of this color gradient.

The color gradient effect is built-up using a combination of multiple pens and half-tone dithering. The application must tell the slider exactly which pens to use in creating the gradient effect, and in what order to use them. Essentially, it does this by passing an array of pens (terminated by ~0, just like a PenSpec) to the slider. The first pen in the array is used as the color at the top of the slider (or left, if it is horizontal), and the last color in the array is used at the bottom (or right). The other pens will be used at evenly spaced intervals in between. Dithering is used to smoothly fade between the pens, allowing the illusion of a continuous change in color.

TAGS

GRAD_MaxVal (ULONG) - Set the maximum value that the slider can represent, in the range 0..\$FFFF. Default for this tag is \$FFFF. Applicability is (ISGU). (V39)

GRAD_CurVal (ULONG) - Set or get the current value of the slider, in the range 0..\$FFFF. Default for this tag is 0. Applicability is (ISGNU). (V39)

GRAD_SkipVal (ULONG) - Set the amount by which the slider should advance whenever the user clicks on either side of the knob. Default for this tag is \$1111. Applicability is (ISGU). (V39)

GRAD_KnobPixels (UWORD) - Set the size of the knob in pixels. Default for this tag is 5. Applicability is (I). (V39)

GRAD_PenArray (UWORD *) - Specifies an array of pens that the slider should use to create its gradient background. The array can contain any number of pens, and is terminated with a pen value of ~0. These pens can be allocated as shared, since their RGB value is not altered by the slider. The first pen is used on the top or left of the slider, and the last pen is used on the bottom or right. All other pens are evenly spaced out and used in between. Dithering is used between the pens to enhance the smoothness of the gradient transition.

A NULL pen array causes the background of the slider to be rendered in the screen's background color. A pen array containing only a single pen causes the background to be rendered using that pen.

Default for this tag is NULL. Applicability is (ISU). (V39)

PGA_FREEDOM (ULONG) - Determines the orientation of the slider. This can be LORIENT_HORIZ for a horizontal slider, or LORIENT_VERT for a vertical one. Default for this tag is LORIENT_HORIZ. Applicability is (I). (V39)
