gradientslider_gc

COLLABORATORS

	TITLE : gradientslider_gc		
ACTION	NAME	DATE	SIGNATURE
WRITTEN BY		March 14, 2022	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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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 it's 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
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(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)