Subject: Re: Transparent series of images with axis using cgImage
Posted by David Fanning on Fri, 21 Mar 2014 14:41:35 GMT
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Petros Syntelis writes:

> Has anybody tried to create transparent images with axis and done it correctly?

Not this way, no. :-)

Too much going on here for the hacking that has to take place in direct graphics. I would do this a completely different way. I would write the program like this:

```
;*****************************************************
PRO Example, PS=ps

; Fake images.
im1 = cgDemoData(7)
im2 = cgDemoData(21)
im3 = cgDemoData(22)
im4 = cgDemoData(5)

; Build composite images.
cgDisplay, 400, 500, WID=2, /Pixmap
cgimage, im1
cgimage, im4, ctindex=33, $
   AlphaFGPos=[0.0,0.25,1.0,0.75], transparent=50
snap1 = cgSnapShot()

cgimage, im2
cgimage, im4, ctindex=33, $
   AlphaFGPos=[0.0, 0.25, 1.0, 0.75], transparent=50
snap2 = cgSnapShot()

cgimage, im3
cgimage, im4, ctindex=33, $
   AlphaFGPos=[0.0, 0.25, 1.0, 0.75], transparent=50
snap3 = cgSnapShot()

; Delete the Pixmap.
WDelete, 2

; Set multimargin and character size values.
mm = 12
cs = 2.25

; Need a PostScript file?
```

```
IF Keyword_Set(ps) THEN BEGIN
   cgPS_Open, 'example.ps'
   mm = 8
   cs = 1.75
ENDIF

; Display them.
cgDisplay, 1200, 500

!P.Multi=[0,3,1]
cgimage, snap1, multimargin=mm, /axes, $
   OPosition=opos, axkey={charsize:cs}
yrange = opos[3] - opos[1]
p1 = opos[1] + yrange*0.25
p3 = opos[3] - yrange*0.25
cgPlot, [1], /NoData, /NoErase, Charsize=cs, $
   Position=[opos[0], p1, opos[2], p3], AxisColor='red'

cgimage, snap2, multimargin=mm, /axes, $
   OPosition=opos, axkey={charsize:cs}
yrange = opos[3] - opos[1]
p1 = opos[1] + yrange*0.25
p3 = opos[3] - yrange*0.25
cgPlot, [1], /NoData, /NoErase, Charsize=cs, $
   Position=[opos[0], p1, opos[2], p3], AxisColor='red'

cgimage, snap3, multimargin=mm, /axes, OPosition=opos, $
   axkey={charsize:cs}
yrange = opos[3] - opos[1]
p1 = opos[1] + yrange*0.25
p3 = opos[3] - yrange*0.25
cgPlot, [1], /NoData, /NoErase, Charsize=cs, $
   Position=[opos[0], p1, opos[2], p3], AxisColor='red'

!P.Multi=0

IF Keyword_Set(PS) THEN BEGIN
   cgPS_Close, /PNG
ENDIF

END
;*****************************************************
```

To see it on the display:

```
  IDL> Example
```

To see it in a PostScript and PNG file:

IDL> Example, /PS

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
