
Subject: "marching ants" rubberband box
Posted by [graves](#) on Wed, 04 Sep 2002 17:21:15 GMT
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Hi all,

Just wondering if anyone had implemented (or knew of a simple way to implement) a "marching ants" rubberband box. I'm working on a program involving ROI analysis and would like a better of identifying the selected ROI than just changing its color. I didn't see anything on this subject in David's tips archive or elsewhere in the IDL-verse. Perhaps it is not efficient within an IDL framework ... I can't see any way to do it short of essentially rewriting PLOTS. Any clever ideas appreciated!

Ted
graves@helix.mgh.harvard.edu

Subject: Re: "marching ants" rubberband box
Posted by [David Fanning](#) on Thu, 05 Sep 2002 16:30:48 GMT
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Pavel A. Romashkin (pavel_romashkin@hotmail.com) writes:

> You know, that one can be turned off. Or, like I have, you can change it
> to a purring cat. If you choose to do that, you will immediately see
> that some department of Microsoft had *way* too much time on their
> hands, because the cat sleeps, scratches, meows, sleeps, catches
> butterflies and does all sorts of other things. And it behaves
> differently in different Office programs.
> Oh well. It has a lot more personality than the clip.

Oh, I *love* the cat. Now the dog, who is always underfoot, is rooting around looking for the damn thing, and the chance of me getting any work done is just about nil. So much for Microsoft productivity. :-(

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: sec : U Re: "marching ants" rubberband box

Posted by [Andrew Cool](#) on Fri, 06 Sep 2002 01:35:48 GMT

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"Ted Graves" <graves@helix.mgh.harvard.edu> wrote in message
news:dcd95cfc.0209040921.76329af2@posting.google.com...

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> Ted

> graves@helix.mgh.harvard.edu

Ted Graves wrote:

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> Ted

> graves@helix.mgh.harvard.edu

Hi Ted,

No doubt one of the Gurii will produce a decent "marching ants" soon, but in the meantime here's a simple Direct Graphics attempt with the ants "marking time", i.e. marching on the spot.

Andrew

PRO Marching_Ants1

; A.D. Cool 05-Sep-02 Marching Ants "Marking Time"

loadct,0

roi_ex ; an amended example from RSI doco

END

PRO roi_ex

Device,decomp=0

device,set_graphics = 3

; Load and display an image.

img=READ_DICOM(FILEPATH('mr_knee.dcm',SUBDIR=['examples','da ta']))

img_size = SIZE(img)

window,xsize=img_size(1)*2,ysize=img_size(2)*2

TV, REBIN(img,img_size(1)*2,img_size(2)*2)

; Print instructions.

PRINT,'To create a region:'

PRINT,' Left mouse: select points for the region.'

PRINT,' Right mouse: finish the region.'

; Collect first vertex for the region.

CURSOR, xOrig, yOrig, /UP, /DEVICE

Device,set_graphics = 6

PLOTS, xOrig, yOrig, PSYM=1, /DEVICE

xc = xorig & yc = yorig

;Continue to collect vertices for region until right mouse button.

x1 = xOrig

y1 = yOrig

while !MOUSE.BUTTON ne 4 do begin

```

x0 = x1
y0 = y1
CURSOR, x1, y1, /UP, /DEVICE
xc = [xc,x1] & yc = [yc,y1]
x2 = x1
while x2 eq x1 AND !MOUSE.BUTTON ne 4 Do Begin
    PLOTS,xc,yc,linestyle = 2,/DEVICE , COLOR = !P.COLOR,thick=1
    wait,0.1
    CURSOR, x2, y2, /NOWAIT, /DEVICE
endwhile
endwhile
PLOTS, [x1,xOrig], [y1,yOrig], /DEVICE
xc = [xc,xorig] & yc = [yc,yOrig]

Device,set_graphics = 3

; Blink on/off using Linestyle=2 for Dashed lines.
print,'Hold down Mouse button 1 to finish.'
XYOUTS,0.5,0.9,'Hold down Mouse button 1 to finish.',align=0.5

; Blink away until user presses MB 1
Device,set_graphics = 6
While !MOUSE.BUTTON NE 1 Do begin
    PLOTS,xc,yc,linestyle = 2,/DEVICE , COLOR = !P.COLOR,thick=1
    CURSOR, x1, y1,/nowait, /DEVICE
    wait,0.3
    PLOTS,xc,yc,linestyle = 0,/DEVICE,COLOR = !P.COLOR,thick=1
End

; replot in solid colour
Device,set_graphics = 3
PLOTS,xc,yc,linestyle = 0,/DEVICE,COLOR = !P.COLOR
print,'Fin!'
END

```

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