
Subject: Re: Dragging mouse question

Posted by [Fergus Gallagher](#) on Thu, 13 Apr 1995 07:00:00 GMT

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cabr69@ccsun.strath.ac.uk ("D.H.Brooks") wrote:

> Hello everyone,

>

> I have written a (very simple) procedure which displays data points on
> an xy-axis

> and allows you to manipulate them using the left mouse button (i.e. it
> just uses

> tvrdc,x,y,/down to get the point-within a specified range-and reads the
> position of

> the next click to place it).At the moment all it does is re-plot every
> time you move

> a point and although it is satisfactory for my purposes it takes a

> while to get the plot line looking smooth.Clearly it would be neater

> if i could drag the points and have the screen continually update the

> plot so i could see the original line itself moving

> with the cursor.I expect it to be fairly simple but have looked

> in the IDL manual/reference guide and at the library routines for

> clues and have found nothing helpful.Does anyone know what commands

> i should be using? Any help would be appreciated.

>

> Cheers,

>

> David

>

Dear David,

Your simplest option is probably to use

device,set_graphics_function=6 ; GXxor. IDL Ref manual page 3-20

With Xor set, redrawing a line erases it, since $(a \text{ xor } b) \text{ xor } b == a$

This works well for black and white line-type drawings, but an
intermediate $(a \text{ xor } b)$ can produce some funny colours in other
situations.

Your line drawing code might look something like:

(I'm writing this on the fly, so don't trust it!!!)

```
=====
```

```
pro rubberline,x,y ; x and y are 2-element vectors  
common rub,oldx,oldy
```

```
device,get_graphics=oldgraphics
```

```
device,set_graphics=6; xor
```

```
if n_elements(oldx) ne 0 then begin
    plots,oldx,oldy    ; undraw old line - if it exists.
endif
plots,x,y
oldx = x
oldy = y
device,set_graphics=oldgraphics
end
;=====
```

when you've finished drawing a line, you will probably want to draw it with the default graphics function (15=GXset)

Fergus

```
=====
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