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Subject: function graphics event handling

Posted by [Helder Marchetto](#) on Mon, 02 Mar 2015 21:30:52 GMT

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Hi,

I find my self often a bit puzzled by how the fg event handling works. Events such as mouse pressed or so, are handled with functions that with a call to "return, 1" continue the processing by the fg.

But what if I would want do insert some code after the processing of the object?

Let me make a demo example, first in words further down as code.

Say you have a widget\_window with an image and an ellipse inside. The window event mouse\_down\_handler calls a function called MouseDownEvent. I would like to know if the user clicked on the image or on the ellipse. For that I have the getSelect() function. However, this will give you the previous object selected... the new one is selected after the "return,1" is called.

So here is an example:

```
function MouseDownEvent, oWin, xPos, yPos, Button, KeyMods, Clicks
;here I would like to know which object has been selected
help, oWin->getSelect()
;but this will always be the last one selected!!!
return, 1
end
```

```
pro testGetSelect
img = dist(500)
tlb = widget_base(/column)
wWindow = widget_window(tlb, xsize=500, ysize=500,mouse_down_handler
='MouseDownEvent')
widget_control, tlb, /realize
widget_control, wWindow, get_value=oWin
io = image(img, image_dimensions=[500,500], current=oWin, margin=0)
;make some objects on top
el = ellipse(0.25,0.75, major=0.125, '-r2', fill_background=0, /normal, target=io)
sq = polygon([0.2,0.3,0.3,0.2], [0.2,0.2,0.3,0.3], '-y2', fill_background=0, /normal, target=io)
rect = polygon([0.7,0.8,0.8,0.7], [0.2,0.2,0.4,0.4], '-b2', fill_background=0, /normal, target=io)
end
```

I will make my final question in the next few lines, but first I will say that one can use hitTest() to check which element "could" be selected.

However, hitTest() seems to be non-consistent with getSelect(). When I have three objects intersecting, it's not clear which will be returned by hit test and which will be returned by getSelect(). I had an object selected (corners highlighted) that was the second in the array of three returned from hitTest(). Figure that.

To check the effect of hit set, substitute or add in MouseDownEvent function these lines:

```
res = oWin->hitTest(xPos, yPos)
for i=0,n_elements(res)-1 do help, res[i]
```

And here is the question: Why not giving the possibility to act/interact *\*after\** fg processing?

Is this a goofy idea?

Thanks,  
Helder

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