Subject: Re: Keeping objects fixed in function graphics Posted by Helder Marchetto on Thu, 19 Dec 2013 13:10:03 GMT

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On Thursday, December 19, 2013 1:40:06 PM UTC+1, Helder wrote:
> Hi,
>
 since I spent the last half an hour trying to figure this out, I thought I might as well share this.
> The reason and idea behind this, was to draw in a window where I have an image some sort of
markers that stay where they are. For example a grid or an aiming target or crosshair.
 One should be able to pan and zoom the image below it, but not these objects on top.
>
>
> Well, this is how I did it. Let me know if you know of a better/cleaner way, otherwise I'll stick to
this.
> What I did was basically turn off the event handlers for mouse movements and any other sort.
Here is the code:
>
>
  >
  FUNCTION AvoidMovingObj::MouseDown, oWin, x, y, iButton, KeyMods, nClicks
>
  RETURN, 1
 END
>
>
>
  FUNCTION AvoidMovingObj::MouseMotion, oWin, x, y, KeyMods
>
  RETURN, ~ISA(oWin.GetSelect(), 'ELLIPSE')
>
 END
>
>
>
  FUNCTION AvoidMovingObj::MouseUp, oWin, x, y, iButton
  RETURN, ~ISA(oWin.GetSelect(), 'ELLIPSE')
>
>
  END
>
>
>
>
```

```
> FUNCTION AvoidMovingObj::MouseWheel, oWin, x, y, Delta, KeyMods
>
 RETURN, ~ISA(oWin.GetSelect(), 'ELLIPSE')
>
  END
>
>
>
  PRO AvoidMovingObj__define
>
  void = {AvoidMovingObj, inherits GraphicsEventAdapter}
>
 END
>
>
>
  PRO AvoidMovingObjTest
  p = PLOT(/test)
>
  e = ellipse(0.5,0.5, '-r2', FILL_BACKGROUND=0, /norm)
  e.window.EVENT_HANDLER=Obj_New('AvoidMovingObj')
>
 END
>
>
  >
>
  There are two clear drawbacks in this way of working:
> 1) if there are ellipses that one would like to move, than I should make sure that the correct
ellipse (or object) is not moved and the rest is moved. I think this is solvable, but I didn't spend
time on it yet
> 2) this seems to be an intrinsic drawback of this method: when clicking on the "unmovable"
object, the mouse cursor will stay as it is until another object has been clicked. Not terrible, but not
elegant.
>
>
> I hope I'm not the only one in need for this and if you have suggestion on how to improve this...
very welcome!
> Cheers,
> Helder
```

FUNCTION AvoidMovingObj::Init, Name self.Name = Name RETURN, 1 END

PRO AvoidMovingObj__define void = {AvoidMovingObj, inherits GraphicsEventAdapter, Name:"} END

and then to set the event_handler property like this: e.window.EVENT_HANDLER=Obj_New('AvoidMovingObj', 'Obj1Name')

That solves that...

Cheers,

h