
Subject: Re: Simple Widget Programme - Help
Posted by [David Fanning](#) on Wed, 02 Apr 2003 20:34:29 GMT
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Karthikayan Balakrishnan (lovedale27@hotmail_NOSPAM.com) writes:

> I have some experience with writing IDL Programmes and I want to
> start using widgets now. I read the examples that come with the IDL manu
> al and tried my hand at one example where I would display a picture and rot
> ate it by the value set by a slider. However this example does not wor
> k. Can anyone fix my small programme (with comments perhaps) so that I ca
> n load either file 1 or 2 and disply it after proper rotation. Here is the
> code I was playing with:

I am such a sucker for this kind of thing. :-(

OK, here is a working version, just quick and dirty because
my team is playing a tennis match this afternoon.

```
,*****  
PRO TEST_QuitProgramme,event  
    widget_control,event.top,/DESTROY  
end  
  
PRO TEST_Display,event  
    Widget_Control, event.top, Get_UValue=info  
    Widget_Control, event.id, Get_UValue=nameOfFile  
    READ_JPEG, nameOfFile, image  
    *info.pic = image  
    wset, info.index  
    s = size(image, /dimensions)  
    widget_control, info.draw, draw_xsize=s[0], draw_ysize=s[1]  
    tv, *info.pic  
end  
  
PRO TEST_FindAngle,event  
    widget_control,event.top,get_uvalue=info  
    WSet, info.index  
    tv, ROT(*info.pic, event.value)  
    Widget_Control, info.text_box, Set_Value=StrTrim(event.value,2)  
end  
  
PRO TEST_Cleanup, base  
    Widget_Control, base, Get_UValue=info  
    Ptr_Free, info.pic  
END
```

PRO TEST

```
file = Filepath('endocell.jpg', SubDirectory=['examples', 'data'])
Read_JPEG, file, image

base  = Widget_Base(Title='28 March 2003',MBAR=menubar,/Column)
menu1  = Widget_Button(menubar,Value='File List',/Menu)
;Create the Menu Items

button1 = Widget_Button(Menu1,Value='File 1',Event_pro='TEST_Display', $
    UValue=Filepath('endocell.jpg', SubDirectory=['examples', 'data']))

button2 = Widget_Button(Menu1,Value='File 2',Event_pro='TEST_Display', $
    UValue=Filepath('muscle.jpg', SubDirectory=['examples', 'data']))
button3 = Widget_Button(Menu1,Value='Quit' , $
    Event_pro='TEST_QuitProgramme')

rot_gp = Widget_Slider(base,max=180,min=0,value=45,$
    Event_pro='TEST_FindAngle')
s = size(image, /dimensions)

draw  = Widget_Draw(base,Xsize=s[0],ysize=s[1])

;The text box to show the degrees rotated.
text_box= Widget_text(base,xsize=10)

;make the structure

Widget_Control, /REALIZE, base
Widget_Control,draw,GET_VALUE=index
WSET,index
tv, image
pic  = Ptr_new(image, /No_Copy)
info  = {    pic:pic, $          ;the picture
           rot_gp:rot_gp, $ ;the slider
           text_box:text_box, $ ; the text widget
           draw:draw, $   ; the draw widget
           index:index  } ; the window index
Widget_Control, base, SET_UVALUE=info
XMANAGER,'widget28Mar2003',base, /No_Block, Cleanup='TEST_Cleanup'
END

.*****
,
```

I used images from the example/data subdirectory to get it working.

Cheers,

David

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