
Subject: Re: widget_control and event generation
Posted by [pdoherty](#) on Sun, 15 Apr 2007 19:43:44 GMT
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On Apr 15, 4:15 pm, David Fanning <n...@dfanning.com> wrote:

> pedom...@earthlink.net writes:

>> When I use the following code to switch the currently selected tab in

>> a widget_tab:

>

>> widget = widget_info(info.tlb, find_by_uname='plot_tab')

>> oldtab = widget_info(widget, /tab_current)

>> widget_control, widget, set_tab_current=7

>

>> Do I generate an event?

>

> No, you don't generate an event. But I could believe that

> if you are using a button click to switch tabs that you

> may not be accounting for both the button DOWN and the button

> UP event in your event handler.

That's what I thought. The general idea is that if I press the right mouse button the plot_tab switches to a different tab, makes some plots as I move the cursor around, and then when I release the right button the tab switches back to the original tab. Here's the relevant code (edited) :

```
; handle right button press events
if ((event.type EQ 0) AND (event.press EQ 4)) then begin
    info.mouse_right_down = 1
    widget = widget_info(info.tlb, find_by_uname='plot_tab')
    info.oldtab = widget_info(widget, /tab_current)
    widget_control, widget, set_tab_current=7
endif
```

```
; handle right button release events
if ((event.type EQ 1) AND (event.release EQ 4)) then begin
    info.mouse_right_down = 0
    widget = widget_info(info.tlb, find_by_uname='plot_tab')
    widget_control, widget, set_tab_current=info.oldtab
endif
```

I think I have taken into account DOWN vs UP events. What's strange is that when I push the button DOWN, and before I release, my event handler catches an event for the widget with the uvalue = 'plot_tab', as in

```
widget_control, event.id, get_uvalue=widget  
case widget of  
  'plot_tab' : ccd_plots, info  
etc...
```

It's as if the system thinks I have clicked on one of the tabs even though all I have done is selected a new tab using widget_control.

No doubt, it's my fault. Computers always do what we tell them to do (the bas****s). It's just that I don't understand that I've told it to do this.

- Peter Doherty
