
Subject: zoom at widgets

Posted by skymaxwell@gmail.com on Sat, 28 Nov 2015 13:43:03 GMT

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I have 2 draw widgets. The first - it's full image (draw_widget) and second zoom_widget.

For draw_widget i turn on button events and motion events

```
draw_widget=WIDGET_DRAW(draw_base,XSIZE=1440,YSIZE=720,/MOTION_EVENTS,$
    /BUTTON_EVENTS,X_SCROLL_SIZE=720,Y_SCROLL_SIZE=360,EVENT_PRO =
    "doMove")
```

```
state={pImage:PTR_NEW(image),$      ;pointer to image
    langCat:oLangCat,$              ;langcat
    workDir:workDir,$               ;dir for save
    localDir:local_dir,$            ;dir current
    draw:draw_widget,$              ;full image will be here
    imageLoaded:0,$                 ;is image loaded ?
    label:label_value,$             ;label
    zoom:zoom_draw,$                ; zoom widget
    ...
}
```

I suggest need to do the following

1. get X,Y
2. get Window ID
3. use TVRD(my region)
4. CONGRID OR REBIN
5. get and set Window ID for zoom widget
6. use TVSCL to do output in zoom widget

here is fragment of code

```
PRO doMove,event
    WIDGET_CONTROL,event.top,GET_UVALUE=pState
    x=event.x
    y=event.y
    ...
; if mouse button was pressed
IF (event.press EQ 1) THEN BEGIN
    CATCH
    IF ((*pState).imageLoaded NE 0) THEN BEGIN
        data=(*pState).pImage ;get image
        WIDGET_CONTROL,(*pState).draw,GET_VALUE=id ;get ID
        WSET,id ;set ID
        zoom_data=TVRD(x-20,y-20,10,10) ; read current graphics
        zoom_data=CONGRID(zoom_data,360,360,/interp) ; what is better congrid or rebin ?
```

```
WIDGET_CONTROL(*pstate).zoom,GET_VALUE=id ;get ID zoom
WSET,id ; set zoom current
TVSCL,zoom_data ;output
ENDIF
ENDIF
END
```

it's don't worked as well. it's don't showing zoom at all regions of full image
And zoom images not like original image

Thanks
