
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,/MOTI ON_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
