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Subject: IDLgrROIgroup woes

Posted by [btupper](#) on Sat, 07 Sep 2002 19:06:55 GMT

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Howdy,

I have bumped into a difficulty using the IDLgrROIgroup container object. I have a mixed bag of contours - some are closed and some are open - and there exists a variable number of these contours at each level (z value). I want to make a an IDLgrROI for each contour at each level and then stuff the IDLgrROI into a group container. There are three types of ROIs: 0 = points, 1 = open path and 2 = closed path. It seems that a given IDLgrROIgroup can contain any of one type - but not a mix of types.

Here's my example:

```
;make a group container
IDL> group = obj_new('IDLgrROIgroup')

;make three ROIs - closed, open and points
IDL> x = [0,0,1,1]
IDL> y = [0,1,1,0]
IDL> roi_closed = obj_new('IDLgrROI', x,y,type = 2)
IDL> roi_open = obj_new('IDLgrROI', x,y,type = 1)
IDL> roi_points = obj_new('IDLgrROI', x,y,type = 0)

;add each to the group container
IDL> group->Add, roi_closed
IDL> group->Add, roi_open
% IDLGRROIgroup::ADD: Argument 1 should be of class type IDLanROI
% Execution halted at: $MAIN$
IDL> group->Add, roi_points
% IDLGRROIgroup::ADD: Argument 1 should be of class type IDLanROI
% Execution halted at: $MAIN$

;are the three ROI objects valid? Yes.
IDL> print, obj_valid([roi_closed, roi_open, roi_points])
  1  1  1

;are the three ROI objects really IDLgrROIs? Yes.
IDL> help, roi_closed, roi_open, roi_points
ROI_CLOSED   OBJREF   = <ObjHeapVar581(IDLGRROI)>
ROI_OPEN     OBJREF   = <ObjHeapVar585(IDLGRROI)>
ROI_POINTS   OBJREF   = <ObjHeapVar588(IDLGRROI)>

;make a new container and change the order that I add the ROIs
```

```
IDL> group2 = obj_new('IDLgrROIgroup')
IDL> group2 ->Add, roi_open
IDL> group2 ->Add, roi_closed
% IDLGRROIGROUP::ADD: Argument 1 should be of class type IDLanROI
% Execution halted at: $MAIN$
```

So, have I bumped into a bug or am I trying to misuse the IDLgrROIgroup? I can believe that I am abusing the IDLgrROI since I am having a hard time understanding what it means to have an ROI comprised of points or an ROI that is an open path.

Regards,  
Ben

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Subject: Re: IDLgrROI  
Posted by [Peter Clinch](#) on Fri, 02 Dec 2005 11:58:40 GMT  
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raval.chintan@gmail.com wrote:

> I am using IDLgrROI to draw a polygon. Now I want to fill the inner  
> part of ROI .  
> I do not want to use the idlgrpolygon for this application ... : - (

Maybe have a look at the IDLanROI::ComputeMask method. AIUI that should provide a 2D array which can have pixels set according to whether they're inside or outside or whether they're on the boundary.

I've not used it myself yet, but it seems it should be useful for what you're after.

Pete.

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