
Subject: xroi with regions_in problem

Posted by on Tue, 07 Nov 2017 13:28:17 GMT

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Hi,

I'm trying to use the regions_in keyword with xroi but it seems I can't make it work.

The purpose is to have a pre-defined region of interest, that the user can move or size scale in the GUI.

This call, without regions_in, works fine:

```
IDL> xroi, dispim, regions_out = roi, /block
```

But when I do

```
IDL> xroi, dispim, regions_in = [roi_in], regions_out = roi, /block
```

The display image (dispim) is not shown properly (I get just a black image) and the call is terminated with the error message:

```
IDLGRMODEL::ADD: Argument 1 should be of class type IDLgrModel or IDLgrGraphic or IDL_Container
```

If I repeat the call, the image is displayed nicely but I see no defined ROI in the ROI information window.

The roi_in object is created like this:

```
IDL> roi_in = OBJ_NEW('IDLanROI', X_in, Y_in)
```

where X_in and Y_in define a rectangle:

```
IDL> help,X_in,Y_in & print, X_in & print,Y_in
X_IN      LONG      = Array[4]
Y_IN      LONG      = Array[4]
   35      65      65      35
   35      35      65      65
```

The roi_in object at least passes the simplest of tests but could probably be wrong anyway:

```
IDL> roi_in -> getproperty, roi_xrange = xx & print, xx
 35.000000    65.000000
```

I'm using regions_in = [roi_in] because the documentation says it should be an array but

regions_in = roi_in gives the same error.

Any advice?

Subject: Re: xroi with regions_in problem

Posted by on Tue, 07 Nov 2017 15:03:16 GMT

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Den tisdag 7 november 2017 kl. 14:28:18 UTC+1 skrev Mats Löfdahl:

> Hi,
>
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regions_in = roi_in gives the same error.
>
> Any advice?

I should add that dispim is a 100 by 100 byte array, so the rectangle should be within bounds.

Subject: Re: xroi with regions_in problem
Posted by [Helder](#) on Wed, 08 Nov 2017 08:19:53 GMT
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Hi Mats,
you need to give an IDLgrROI as input, not IDLanROI. From the help:
REGIONS_IN
Set this keyword to an array of IDLgrROI references.

Here is a working example:

```
dispim = dist(100)
roi_in = obj_new('IDLgrROI',[35,65,65,35],[35,35,65,65])
xroi, dispim, regions_in = roi_in, regions_out = roi_out, /block
;edit the roi
roi_out->getProperty, data=d
print, d
  35.0000    16.0000    0.000000
  87.2581    16.0000    0.000000
  87.2581    64.3871    0.000000
  35.0000    64.3871    0.000000
```

Cheers,
Helder

On Tuesday, 7 November 2017 16:03:17 UTC+1, Mats Löfdahl wrote:
> Den tisdag 7 november 2017 kl. 14:28:18 UTC+1 skrev Mats Löfdahl:
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>>
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regions_in = roi_in gives the same error.
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>> Any advice?
>
> I should add that dispim is a 100 by 100 byte array, so the rectangle should be within bounds.

```

Subject: Re: xroi with regions_in problem

Posted by on Wed, 08 Nov 2017 09:41:21 GMT

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OK, so I'm not stupid, I'm just blind... :)

Thanks Helder!

/Mats

Den onsdag 8 november 2017 kl. 09:19:56 UTC+1 skrev Helder:

```
> Hi Mats,
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> REGIONS_IN
> Set this keyword to an array of IDLgrROI references.
>
> Here is a working example:
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> roi_in = obj_new('IDLgrROI',[35,65,65,35],[35,35,65,65])
> xroi, dispim, regions_in = roi_in, regions_out = roi_out, /block
> ;edit the roi
> roi_out->getProperty, data=d
> print, d
>    35.0000    16.0000    0.000000
>    87.2581    16.0000    0.000000
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> Helder
>
>
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