Posted by Dick Jackson on Tue, 31 Jul 2007 16:49:29 GMT
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"Erik" <janssen.e@gmail.com> wrote in message
 news:1185887600.007960.156080@o61g2000hsh.googlegroups.com.. .
> Hi folks,
>
> I run into a small problem when scaling a IDLgrROI object. I want the
> ROI to stretch out so that it's slightly bigger. I'm using the SCALE
> function to achieve this:
>
> oRoi->Scale, [1.5,1.5]
>
> The scale function does what it promised; the ROI grows bigger.
> Unfortunately the position of the ROI gets messed up and the ROI moves
> upwards or even out of screen. Does someone know what causes this? I
> can't find more info or parameters in IDL's helpfile ;-)

The help file says "The IDLanROI::Scale procedure method modifies the vertices
for the region by applying a scale." To be more clear, that means that all your
X and Y values are scaled by simple multiplication. If your ROI were centered
around [0,0] it would work as (I think) you expect, and it would stay "in place"
and change in size.

To scale in place, try something like this:

```
;;   Find 'centre' for scaling
oROI->GetProperty, ROI_XRange=xr, ROI_YRange=yr
midX = Mean(xr)
midY = Mean(yr)

;;   Shift ROI to surround [0,0]
oROI->Translate, -midX, -midY

;;   Scale ROI
oRoi->Scale, [1.5,1.5]

;;   Shift ROI back
oROI->Translate, midX, midY
```

Hope this helps!

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Cheers,
-Dick

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