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Subject: DISP\_ROI\_GROW\_REGION

Posted by [Leonardo R. Sbaraini](#) on Wed, 26 Mar 2008 15:31:45 GMT

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Hello all,

Example of the problem:

I need to resize a ROI (oversample) obtained from image1 (100x100) and show it in image2 (200x200).

I had success in creating a tool to downsample the ROI (the inverse problem), but do oversample, the ROI is not exactly what I want, have some borders problem.

Well, seeing the file "envi\_all\_functions.txt" that I don't know from where it came, there is a method with a syntax:

DISP\_ROI\_GROW\_REGION, p\_data, /ASK, /GROUP, /REDO

I ask if someone had used this routine, and don't know how to initiate p\_data.

Maybe I can help showing my code here (to oversample):

```
. *****  
,  
; Growing for x axis  
. *****  
,  
; x is a long array with the xaxis positions  
  
xSize = n_elements(x)  
  
xNewSize = xSize * intScaleFactor * intScaleFactor  
  
xNew = lonarr(xNewSize)  
  
xNew[*] = -1  
  
currentXnewIndex = 0  
  
for xi=0, xSize-1 do begin  
  
    numberToWrite = x[xi]  
  
    ; The box side for every x  
    for sfRepeater = 0, intScaleFactor-1 do begin  
  
        ; The box side for current element of x (xi)  
        for sfRepeaterNested = 0, intScaleFactor-1 do begin
```

```

; Verifying the image limit
if numberToWrite lt lngDestinationWidth then begin

    xNew[currentXnewIndex++] =
numberToWrite

    endif

    endfor

    numberToWrite++

    endfor

endfor

; Removing invalid indexes
goodIndex = where(xNew ne -1)
if goodIndex[0] ne -1 then xNew = xNew[goodIndex]

x = temporary(xNew)

```

```

;
*****

```

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