
Subject: New IDL User Questions

Posted by [John Piccirillo](#) on Tue, 08 May 2001 17:38:16 GMT

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Hello,

I'm new to IDL, but not new to programming. I have the IDL manuals and Dr. Fanning's excellent book, nevertheless, I have a few basic questions:

1. Editor Screen

- a. Is there a way to make the Editor full screen or extend over some of the other windows? Using resize doesn't do it. Does everyone confine themselves to this small window on their code?
- b. My scrolling mouse will scroll in the Output Log and Variable Watch windows, but not in the Editor Window. Que pasa?

2. Array Operations - Not being used to IDL type of array operations, is there a simpler way to do the following?

```
a.  
  For I = 0, 199 Do Begin  
    For J = 0, 84 Do Begin  
      If (ImageMask[I,J] EQ 1) Then ImageROI[I,J,*] =  
ImageS[I,J,*]  
      Else ImageROI[I,J,*] = 0  
    EndFor  
  EndFor
```

I thought of using the WHERE function as in,
ROI = Where(ImageMask EQ 1)
but ImageROI[ROI] = ImageS{ROI} leaves out the third dimension.

```
b. ;blow-up image X 9 For Screen Display  
For j = 0,84 Do Begin  
  For i = 0,199 Do Begin  
    JImage[3*i,3*j]      = ImageS[i,j,[4]]  
    JImage[3*i,3*j+1]    = ImageS[i,j,[4]]  
    JImage[3*i,3*j+2]    = ImageS[i,j,[4]]  
    JImage[3*i+1,3*j]     = ImageS[i,j,[4]]  
    JImage[3*i+1,3*j+1]  = ImageS[i,j,[4]]  
    JImage[3*i+1,3*j+2]  = ImageS[i,j,[4]]  
    JImage[3*i+2,3*j]     = ImageS[i,j,[4]]  
    JImage[3*i+2,3*j+1]  = ImageS[i,j,[4]]  
    JImage[3*i+2,3*j+2]  = ImageS[i,j,[4]]  
  EndFor  
EndFor
```

I don't use the EXPAND function because I don't want to interpolate the data.

3. PLOT

I have a couple of plots I want on the same Y Scale, the larger of the two data sets. Presently, I use plot to generate the scale to !y.range, and then test the two ranges and re-plot, as in.

```
Window, 0, Title = ' P Target; NPix = ' + string(Fix(NumOnes)), $
  XSize = 350, YSize = 350, XPos = 0, YPos = 0
Plot, WavL, MeanPT, PSYM = 2, TickLen = 1, XGrid = 1, YGrid = 1
PTYRange = !y.crange
Window, 1, Title = ' P BkGnd; NPix = ' + string(Fix(17000 - NumOnes)), $
  XSize = 350, YSize = 350, XPos = 0, YPos = 375
Plot, WavL, MeanPB, PSYM = 2, TickLen = 1, XGrid = 1, YGrid = 1
PBYRange = !y.crange
SPRange = Max([PTYRange[1], PBYRange[1]])
MaxY = [0,SPRange]

; replot all with new, uniform Y scale
Window, 0, Title = 'P Target; NPix = ' + string(Fix(NumOnes)), $
  XSize = 350, YSize = 375, XPos = 0, YPos = 0
Plot, WavL, MeanPT, PSYM = 2, TickLen = 1, XGrid = 1, YGrid = 1, YRange =
MaxY
Window, 1, Title = 'P BkGnd ; NPix = ' + string(Fix(17000 - NumOnes)), $
  XSize = 350, YSize = 350, XPos = 0, YPos = 375
Plot, WavL, MeanPB, PSYM = 2, TickLen = 1, XGrid = 1, YGrid = 1, YRange =
MaxY
```

this seems inefficient, what is a better way?

Thanks,

John Piccirillo
