Subject: IDL & ENVI error: WIDGET_CONTROL: Invalid widget identifier: 17
Posted by robintw on Fri, 27 Mar 2009 16:10:33 GMT
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Hi,

I'm very much an IDL newbie, but I have experience in other programming languages. I'm trying to use IDL with ENVI to do some image processing.

My code is below, and is relatively simple - just calculating some statistics for the image. However, every so often when I run it I get the error "WIDGET_CONTROL: Invalid widget identifier: 17.". If I close the IDL/ENVI Workbench and reload it then the error goes away and I can run it fine again a few times, until the error starts coming up again.

I'm not doing anything with widgets explicitly (although I think the ENVI_SELECT_FILE function uses widgets) so I can't think what I'm doing. I use the "envi" command at the beginning to load the envi environment, is there a command I need to run at the end to close the envi environment and release all the files and widgets etc. If so, what is this command - I can't seem to find it anywhere!

My code is below:

```
PRO GetImage
envi
; Use the ENVI dialog box to select a file
ENVI_SELECT, fid=file,dims=dims,pos=pos

; TODO: Get this to loop through bands
; Get the data for the first band of the file (ignores pos from
earlier)
WholeBand = ENVI_GET_DATA(fid=file, dims=dims, pos=0)

;Set Distance to be considered
Distance = 3

; Therefore the area to go each side is (d-1)/2
DistanceEachSide = (Distance - 1)/2

; Calculate the dimensions of WholeBand
SizeInfo = SIZE(WholeBand, /DIMENSIONS)
NumRows = SizeInfo[0]
NumCols = SizeInfo[1]

FOR Rows = 3, NumRows DO BEGIN
```

```
  FOR Cols = 3, NumCols DO BEGIN
    ; Make sure RowBottom doesn't go below 0
    RowBottom = Rows - DistanceEachSide
    IF RowBottom LT 0 THEN RowBottom = 0

    ; Make sure RowTop doesn't go above NumRows
    RowTop = Rows + DistanceEachSide
    IF RowTop GE NumRows THEN RowTop = NumRows - 1

    ColBottom = Cols - DistanceEachSide
    IF ColBottom LT 0 THEN ColBottom = 0

    ColTop = Cols + DistanceEachSide
    IF ColTop GE NumCols THEN ColTop = (NumCols - 1)

    print, RowTop
    print, ColTop

    AOI = WholeBand[RowBottom:RowTop, ColBottom:ColTop]
    ;print, AOI
    ;print, "---"
  ENDFOR
ENDFOR


; --- Calculate variable values for the WholeBand

; Get the global mean
GlobMean = MEAN(WholeBand)

; Get the global variance
GlobVariance = VARIANCE(WholeBand)

; Get the number of values in the whole image
SizeInfo = SIZE(WholeBand, /DIMENSIONS)
GlobNumber = SizeInfo[0] * SizeInfo[1]

; --- Calculate variable values for the AOI

; Get the Sum of the values in the AOI
AOISum = TOTAL(aoi)

; Get number of values in AOI
SizeInfo = SIZE(aoi, /DIMENSIONS)
AOINumber = SizeInfo[0] * SizeInfo[1]

; --- Start Calculating Getis Statistic
```

```
; Calculate the top of the fraction
TopFraction = AOISum - (AOINumber * GlobMean)

; Calculate the square root
SquareRootAnswer = (AOINumber * (GlobNumber - AOINumber))/(GlobNumber
- 1)

; Calculate bottom of fraction
BottomFraction = GlobVariance * SquareRootAnswer

; Calculate Getis Statistic
Getis = TopFraction / BottomFraction

print, Getis

END
```

Thanks,

Robin
