Subject: Re: List of Points --> ROI via IDLVECTOR data type for iimage itool
Posted by David Alexander on Fri, 14 Oct 2005 17:40:18 GMT
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Edward,

OK, I see what you're trying to do.

There's no point visualization that I know of in iTools. However, you could create a second image containing only the points, and overlay it on top of the original. This is based on the same idea as my last example. I'm setting the points to red in the overlay image, and making all other pixels transparent.

```
pro test
  x = bytscl(randomu(s,1000))
  y = bytscl(randomu(s,1000))

  newImage=bytarr(256,256)
  newImage[x,y]=255

 newImage=[[[newImage]],[[bytarr(256,256)]],[[bytarr(256,256) ]],[[newImage]]]


  iimage,dist(256)
  iimage,newImage,/OVERPLOT
end
```

If you don't want to mark individual pixels, but would rather put some kind of symbol annotation in the location of each point, you could overlay a 2D plot with symbols on the image, then turn off the plot line. Something like this:

```
pro test
  x = bytscl(randomu(s,100))
  y = bytscl(randomu(s,100))

  idx=SORT(x)
  x=x[idx]
  y=y[idx]

  iimage,dist(256)
  iplot,x,y,/OVERPLOT,LINESTYLE=6,SYM_INDEX=2

  ;Remove the axes
  void=itGetCurrent(TOOL=oTool)
  id=oTool->FindIdentifiers('*plot',/VISUALIZATIONS)
  oPlot=oTool->GetByIdentifier(id)
```

```
  oPlot->SetAxesStyleRequest,0

  ;Unselect the plot to force the axes to disappear
  oPlot->Select,0
end
```

iPlot will always add axes, so the last few lines of my example show how to turn those off. iplot also has many other keywords to set the appearance (color, size, type, etc.) of the symbols.

Dave
