Subject: Re: How do I create a scatter plot with colored symbols in accordance with their frequency of occurrence?
Posted by David Fanning on Wed, 04 Jun 2014 22:01:00 GMT

Madhavan Bomidi writes:

> I know how to make a scatter plot. But I want the symbol colors being represented by the frequency of occurrence. Can anyone help me with an example synthetic data?

```
x = RandomU(-3L, 200)*5
y = 2.2 + RandomU(-5L, 200)*x
data = RandomU(-2L, 200) * 10

h = cgHistogram(data, binsize=0.5, REVERSE_INDICES=ri)
cgLoadCT, 33, NColors=20
cgPlot, x, y, /NoData, Position=[0.15,0.15, 0.8, 0.9]
FOR j=0,19 DO BEGIN
   indices = cgReverseIndices(ri, j, COUNT=count)
   IF count GT 0 THEN BEGIN
      cgPlotS, x[indices], y[indices], PSYM=16, COLOR=Byte(j)
   ENDIF
ENDFOR
cgColorbar, NColors=20, Range=[0,10], Divisions=10, /Vertical, $
   Title='Frequency of Occurance', TLocation='Right'
END
```

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")