## Subject: How do I create a scatter plot with colored symbols in accordance with their frequency of occurrence?
Posted by atmospheric physics on Wed, 04 Jun 2014 21:26:16 GMT

Hello,

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?

Thanking you in advance,
With regards,
Madhavan

## 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

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

---

## Subject: Re: How do I create a scatter plot with colored symbols in accordance with their frequency of occurrence?
Posted by atmospheric physics on Thu, 05 Jun 2014 15:53:39 GMT

View Forum Message <> Reply to Message

Thank you David ...It works!

On Thursday, June 5, 2014 12:01:00 AM UTC+2, David Fanning wrote:
> 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
>
>
>
>
>
>
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
```