Subject: Re: Frustrated by 2 Data Plotting problems
Posted by Kenneth P. Bowman on Sat, 28 May 2011 13:30:17 GMT

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In article <MPG.2849e6f29887ef3c9898e2@news.giganews.com>,
 David Fanning <news@idlcoyote.com> wrote:

> I'd say if you data was spread out evenly on
> a 1000x1000 grid, you would be better off
> forgetting about the plot and going to get
> a beer. :-)

I couldn't drink a beer that fast even in my college days.

```
PRO TEST_SCATTER
;  Plot a scatterplot with a lot of points
t0 = SYSTIME(/SECONDS)
n = 4000000
x = RANDOMU(seed, n)
y = SIN(2.0*!PI*x) + 0.3*RANDOMN(seed, n)
WINDOW, XSIZE = 1000, YSIZE = 1000
PLOT, x, y, PSYM = 3
PRINT, 'Elapsed time : ', SYSTIME(/SECONDS) - t0
END
```


```
IDL> .r test_scatter
% Compiled module: TEST_SCATTER.
IDL> test_scatter
Elapsed time :       5.5195148
```


After you making this plot, you might want to 2-D bin the data and
replot it, or you might want to do some other analysis entirely.
I think that this is a quick and easy way to get
an idea of what your data looks like, but I should know
better than to expect to get the last word.

Ken