
Subject: New 2D Scatter Plot Program

Posted by [David Fanning](#) on Wed, 11 Jan 2012 19:15:07 GMT

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Folks,

I surprising number of people have been looking on my web page lately for information on "scatter plots". To that end, I have created a new 2D scatter plot program, named cgScatter2D, for producing two-dimensional scatter plots.

You can find the code here:

<http://www.idlcoyote.com/programs/cgscatter2d.pro>

And you can find the on-line help for the program here:

<http://www.idlcoyote.com/idldoc/cg/cgscatter2d.html>

This program works very much like cgPlot, with the same keywords, etc., but in addition it calculates the Pearson correlation coefficient and fits a straight line though the data. The correlation coefficient and the fitting equation are displayed on the plot itself by default. There are LOTS of keywords, so you can pretty much decide what you want the final plot to look like.

Here is an example.

```
data_1 = cgDemoData(1)+ RandomU(seed, 101) * 10
data_2 = cgDemoData(1)+ RandomU(seed, 101) * 10
cgScatter2D, data_1, data_2, SymColor='navy', /Grid
```

Like all Coyote Graphics routines, you can display this in a resizable graphics window:

```
cgScatter2D, data_1, data_2, SymColor='navy', /Grid, /Window
```

Or, send the results directly to a PNG or some other type of raster output:

```
cgScatter2D, data_1, data_2, SymColor='navy', /Grid, $
  Output='scatter.png'
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
