
Subject: Re: Frustrated by 2 Data Plotting problems
Posted by [cgguido](#) on Thu, 26 May 2011 19:54:03 GMT
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```
>  
> data = cgDemoData(14)  
> Help, data  
> ; The data will be in three columns, lon, lat, data.  
> cgLoadCT, 33  
> cgPlot, data[0,*], data[1,*], /YNoZero, /NoData  
> cgPlotS, data[0,*], data[1,*], PSym=16, SymSize=2.0, $  
>   SymColor=BytScl(data[2,*])  
>
```

So say you wanted to colour the points based on a 2D histogram of the data, so that when the overplotting fills a part of the plot, at least colour gives you an indication that there is a higher density of dots... (see <http://tinyurl.com/3kv9kdm> and sorry for the partial thread hijack!) Would you go about it in a similar way or is there a faster way?

Here's what I came up with, using `sshist_2d.pro` (<http://tinyurl.com/3on7bzx>) that automagically finds bin size:

```
h2=sshist_2d(x,y, re=ri1, cost=co)
```

```
col=x*0  
nn=n_elements(h2)  
for b=0L, nn-1 do begin &$  
  w=histobin(ri1,b) &$  
  if w[0] ne -1 then col[w]=h2[b] &$  
endfor
```

```
cgloadct, 33
```

```
set_plot, 'z'  
device, z_buff=0, set_res=[!D.X_SIZE,!D.Y_SIZE]  
cgplot, x, y, /noda, back=cgcolor('black'), $  
color=cgcolor('white'), chars=1.5  
cgplots, x, y, ps=16, syms=.1, symcol=bytsc1(col)  
a=tvrd(/tr)  
set_plot, 'x'  
tv, a, /tr
```
