
Subject: Highlighting data points on multiple plots
Posted by [markjamie](#) on Fri, 23 Nov 2012 19:47:33 GMT
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Im interested in highlighting data points on multiple IDL plots of the same data vectors but don't know where to start!

Lets say,

t = time
w = measurement
x = position
y = position
z = position

Where w, x, y, and z are all vectors, given as a function of a function of t (time). All the vectors have the same number of elements.

I've plotted three graphs in a single window using the new IDL 8 graphics, a 3D view, a top down 2D view of the 3D plot, and a 2D line plot showing one of the variables as a function of t (time). In essence its just three different ways of displaying the same data. In each case the data points are coloured according to the same measured quantity, w.

For example:

```
win = window(window_title='my plot', dimensions=[1000,1000])

P = plot3d(x, y, z, symbol='o', /sym_filled, rgb_table=33, vert_colors=bytsc1(w) , /current )
P2 = plot(x , y, symbol='o', /sym_filled, rgb_table=33, vert_colors=bytsc1(w) , /current )
P3 = plot(t, z, symbol='o', /sym_filled, rgb_table=33, vert_colors=bytsc1(w) , /current )
```

(I've ommitted any formatting or positioning to make things easier to read in this post).

Given it's the same data being used in each plot just in different combinations, I'd like to be able to click on a data point in one graph and have it highlighted in the other two plots so things can be easily correlated.

Can anyone suggest a way of doing this?

Many thanks

Mark
