
Subject: Re: Why does IDL get this wrong?

Posted by [Bruce Bowler](#) on Fri, 02 Jan 2004 19:00:28 GMT

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On Fri, 02 Jan 2004 11:29:09 -0700, David Fanning put fingers to keyboard and said:

> Bruce Bowler writes:

>

>> x=[0,0,0,0,44.8,75.7,64.1,70.4,73.9,74.2,68.1,48.9,44.0,35.7,27.6,12.3,7.3,0]

>> y=[-85,-75,-65,-55,-45,-35,-25,-15,-5,5,15,25,35,45,55,65,75,85]

>> title='title'

>> label='line1!Cline2'

>> plot, x, y, yrange = [-90, 90], /ystyle, /xstyle, ytickformat = "(a1)",

>> title = title, xtitle = label, xrange = [0, 100], ticklen = -0.03

>>

>> If ticklen is +0.03, all is fine, but setting it negative (to get the

>> ticks outside the box) and the second line of the xtitle is lost.

>

> Just give yourself some more room for the plot. Add a POSITION keyword:

>

>> plot, x, y, yrange = [-90, 90], /ystyle, /xstyle, ytickformat = "(a1)",

>> \$

>> title = title, xtitle = label, xrange = [0, 100], ticklen = -0.03, \$

> POSITION=[0.1, 0.15, 0.9, 0.9]

>

>

Which works (even if entirely less than IOTTMCO {intuitivly obvious to the most casual observer}), but gets inordinately complex if the plot in question is part of a multiplot.

I maintain (and always will, just because that's the way I am :-) that what IDL does now is "wrong". It, and it alone, knows how it is going to render what I ask it to render. It must be able to position the data so that all of what I ask it to render is rendered...

>> related question (in that involves plots), is there a way to

>> draw the

>> box around the plot (the boss likes that) but *not* draw the tickmarks

>> on the non-primary lines of the box?

>

> Plot, findgen(11), XStyle=8, YStyle=8 ; or 9 if you want exact ranges

> Plots, [!X.CRange[1], !X.Crange[1]], [!Y.CRange[0], !Y.CRange[1]]

> Plots, [!X.CRange[0], !X.Crange[1]], [!Y.CRange[1], !Y.CRange[1]]

Works like a champ...

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Bruce Bowler | Sex is the worst reason to marry or divorce. - Dr.
1.207.633.9600 | Albert Ellis
bbowler@bigelow.org |
+-----+-----+
