
Subject: Flexible IDLgrAxes with nicely auto-rendered text labels?

Posted by [M. Katz](#) on Tue, 06 Jan 2009 15:32:41 GMT

[View Forum Message](#) <> [Reply to Message](#)

I've been working on an fairly simple compound graphics object that handles two IDLgrAxes (X,Y) and any number of IDLgrPlots. My goal is to create something where the plot values can be changed freely and the axes respond by stretching or contracting to accommodate the data ranges. Not a big deal.

The problem has been the text used to auto-label the tickmark values-- its size constantly gets mangled by the changing axes ranges. For the XY axes titles I use an IDLgrText object with RECOMPUTE_DIMENSIONS=1 or 2 and it works perfectly. The labels are always readable and sized consistently.

I would love to leave the axes tickmark text keywords undefined, so IDL will choose the proper tickmark values for the object. However, doing that brings on this text sizing problem.

So far, I can see two paths that I don't like because both require that you know and fix the number of major tick marks. (A) For the TICKTEXT, predefine an objarr(N) of IDLgrText objects with RECOMPUTE_DIMENSIONS set. (B) Predefine a single IDLgrText object with a strarr(N) as the value.

A third path is to continually destroy and re-create the IDLgrAxis objects, and I like that even less.

Does anyone have an elegant suggestion about how to make IDLgrAxes keep up with adjustable plot data ranges and still maintain nice auto-generated, well-sized text?

Thanks!
M. Katz
