Subject: Re: Explicit text formatting for Object Axes
Posted by Ben Tupper on Wed, 25 Aug 1999 07:00:00 GMT

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<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
David Fanning wrote:
<blockquote TYPE=CITE>
<p>I would just make sure your axes are scaled into your

view before you muck around with your fonts. This will

ensure that they are scaled "proportionally" to the

axis they are attached to. Then, as you change axis

scaling, these will change too. :-)

 </blockquote>
Oops, I thought that vector drawn fonts were scaled but hardware fonts

were 'hard'.   I tinkered with Xplot and can see what you mean about

needing to have scaleable fonts. Duh!
<p>I've combed through my code regarding axis scaling and can't figure out what

is going on. The first time I launch the application, the fonts are

'proportional and quite readable'.   If I load a new differently sized image

into the application the fonts are scaled badly. Now, if I load a third image of identical size to the very first image the font scaling returns to its 'proportional and quite readable' scaling.
<p>Below is the code embedded in the event handler that loads a new image.
<p>;

;

;

<p> ;get the dimensions of the new image called Value

info.Origsz = SIZE(*info.Value, /dimensions)

 ; establish the range of values

Xrange = [0,info.Origsz[0]]

Yrange = [0,info.Origsz[1]]
<p> ;normalize the range

info.OrigXscale = Normalize(Xrange, position = [0,1])

info.OrigYscale = Normalize(Yrange, position = [0,1])
<p> ; make the window slightly larger than the dimensions of the image

xsize = info.Orig_rect[2]*info.Origsz[0]

ysize = info.Orig_rect[3]*info.Origsz[1]

widget_control, info.OrigDrawID, $

 xsize =xsize , $

 ysize = ysize
<p> ; load the new data into the image object with

 ; the normalized X and Y scaling

info.oOrig -> setProperty, $

 Data = *info.image, $

 Xcoord_conv = info.OrigXscale, $

 Ycoord_conv = info.OrigYscale
<p> ; change the data range and scaling for the X axis

 ; the Exact keyword has already been set to 1

info.oOrigXaxis1 ->setProperty, $

 range = xrange, $

 Xcoord_conv = info.OrigXscale

<p>;

;

;
<p>So, I think I'm setting the axis scaling correctly ... but, clearly,
I am not.

It seems that IDL has developed a scaling memory that I can't override.
gak!
<p>Thanks,

<p>Ben

<pre>--
Ben Tupper

Bigelow Laboratory for Ocean Science
tupper@seadas.bigelow.org

Pemaquid River Company
pemaquidriver@tidewater.net</pre>
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