Subject: Re: Object graphics axis

Posted by Ben Tupper on Mon, 25 Oct 1999 07:00:00 GMT

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Karri Kaksonen wrote:

<blockquote TYPE=CITE>The manual says that the range of the axis is set by a vector:

[-Xmin/(Xmax-Xmin), 1/(Xmax-Xmin)]

This may work if the length of the axis is 1.0 in normalized

coordinates. In the course I chose the length to be 2.0 and in

order to get it right I just tried out different values until

br>I found it to be closer to:

[-1-Xmin*2/(Xmax-Xmin), 2/(Xmax-Xmin)]

I thought about this on my flight home last night and what I am

>afraid of is that the -1 in the first element may actually depend

 drawn on the screen. My location of the axis

 at [-1.0, -1.0]. If this is the case then RSI should do

>something about it before version 5.3 comes out. Otherwise you have

cbr>to update the range vector every time you reposition the axis.</blockquote>

I've had the same difficulty... it drove me crazy for the longest time until David F bailed me out. The weakness inherent in RSI's formula ([-Xmin/(Xmax-Xmin), 1/(Xmax-Xmin)]) is that it assumes that you are going to scale your data into the positional space of [0,1]. In your case, you have decided to scale into positional space of [-1, 1]. Fortunately, David F has written the NORMALIZE function for people like me who tend to shuffle along with the lost sometimes. NORMALIZE is available at his website. NORMALIZE accepts (as a keyword) the POSITION you intend to scale your axis into.

I was so crazed by this poblem that I wrote a tutorial for figuring out the difference between unscaled data coordinates and scaled data coordinates. I don't have it handy right now, but I will send it along to you as soon as possible.

Ben

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