2 broken axis in a single graph - that's crazy talk - how to use proc template, sgrender, and sganno to make your graphs look awesome.

Abstract

Sometimes SAS® has limitations that need to be worked around. These 'rare' circumstances also present golden opportunities to ask questions, learn new things, and experiment with options that you may have not worked with before. Such was the case with trying to create 2 broken axis in one graph. In this paper I illustrate how to utilize the Graph Template Language and SGRENDER procedure to overcome some SAS graphing limitations. I also use annotations to help solve some labeling issues. I will go through each of the procedures used in a step by step manner to explain the options I utilized and the reasons behind them. The purpose of this paper is to explain how to create the figure and understand the syntax, but also to allow others to take these concepts and improve/build upon them.

Step 1: The problem

Discuss what was wanted and the issues that SAS could not quite hit.

Step 2: My first attempts at the normal route

Using broken axis and why it did not work for me.

Step 3: SAS tech support to the rescue!

I used a lifeline and got some help, then I made my own path.

Step 4: Simple data and basic setup

Let's create some data and set things up.

Step 5: Proc Template (I get it!)

It's really the tip of the iceburg, but we only need the tip for now.

Step 6: SGRENDER (it's so little)

If life were as simple as this.

Step 7: Annotate (simplified)

SAS makes things easier for us.

Step 8: Putting it all together

Toss it all into RTF add in a bit of style and call it a day.

Conclusion.

You too can create fancy graphs and build upon this knowledge to really go crazy.