Chapter 23

Animating Graphs

SAS/INSIGHT software provides two ways to animate graphs.

You can animate selected observations in all graphs simultaneously. This produces the same visual effect as brushing but gives you precise control over the display.

You can animate selected graphs individually. This restricts the animation to one graph and animates observations and other graph features.

### Animating Selection of Observations

To animate the selection of observations, follow these steps.

1. **Open the AIR data set.**
   
   This data set contains measurements of carbon monoxide and sulfur dioxide in city air over various times and dates. Since these data are time-dependent, they are a good subject for animation.

2. **Select CO, then SO2 in the data window using extended selection.**

3. **Choose Analyze:Scatter Plot (Y X).**
   
   This creates a scatter plot of CO versus SO2.

4. **Choose Edit:Windows:Animate.**
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This displays the animation dialog. The animation dialog contains a list of variables, a list of values, and a slider to control speed.

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Select **DAY** in the list of variables, then click the **Apply** button.
This animates the selection of observations over all values of **DAY** in the order in which they are displayed in the animation dialog. Observations are selected in both the scatter plot and the data window, and the current value is selected in the animation dialog.
Figure 23.4. Animating Selection of Observations

Adjust speed by clicking or dragging on the slider. 
When the slider is at the extreme left, speed is slowest; at the right, speed is fastest. Animation speed also depends on the speed of your host, the number of observations in your data set, and the number of graphs displayed.

Click the Pause button to stop the animation.
You can make the pattern of animation clearer by toggling the display of observations.

Choose Observations from the scatter plot pop-up menu.
This turns off the display of all deselected observations.

Click the Apply button to restart the animation.
You should begin to see the conditional distributions of CO and SO2 as DAY varies over the day of the week.

Click in the Value list in the animation dialog.
This enables you to stop the animation on particular values. You can click in the Value list to compare pollutant concentrations on different days.
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