

## Stretching the Bounds of SAS/GRAPH® Software

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### ABSTRACT

This hands-on session will teach you how create graphics that you never imagined you could produce with SAS/GRAPH. You will learn some little-known, but very powerful, SAS/GRAPH tricks that you can use to create unique, custom, one-of-a-kind graphics.

Some of the areas covered during this hands-on workshop are: using PROC GMAP to create custom 'maps' that do not represent geographical areas (silicon wafer 'maps', calendar charts, floor plans, textile fabrics, company logos, data grids); using the new device=JAVAMETA graphics device to produce animated charts and slide shows (the person viewing the output can stop, start, and control the speed of the animation to help explore the data in detail, not possible with old-style gif animations); using the Annotate facility in non-standard fashions (to put 'shadows' behind maps, emphasize 2-level of borders around regions in maps, take transparent/shadow effects in maps); using the HTML= option to add custom CHARTTIPS (sometimes referred to as 'popups') and DRILLDOWNS to maps, bars, markers, annotated polygons, annotated 'invisible' areas, and annotated images (you will also learn how to use device=JAVAMETA CHARTTIPS, generally faster than the standard HTML tips and having some extra functionality).

The workshop features numerous hands-on examples to let you learn the basic concepts, familiarize yourself with the SAS code, and see how you can easily modify the examples to use them with your own data. Finally, there are several 'super-fancy' examples that put all of the basics together in a way that are guaranteed to produce... "Wow! I did not know that you could do that with SAS/GRAPH!"

### INTRODUCTION

Each of the four detailed examples in this workshop involves the use of PROC GMAP. The first and third examples actually produce maps, while the second produces a calendar, and the fourth a display of silicon wafer data. Example one uses data from the US Census Bureau web site and SAS/GRAPH animation to show the westward movement of the US population center from 1790 to 2000. The second example uses counts of deaths by day over a period of ten years to demonstrate how time trends and outliers can be detected using PROC GMAP. The third example demonstrates a number of uses of the Annotate facility in producing a map of Pennsylvania, while the last example uses a combination of PROC GMAP, Annotate, and PROC GREPLAY to draw silicon wafers.

### ANIMATION

A single map is good method of showing the spatial distribution of data at one point in time. A series of maps can be used to show the change in the spatial distribution of data over time. When the series of maps is shown in succession, with each new map replacing the display of the last map, you have an animated display. Though you may not have given it much thought, you do see animated maps on a regular basis since they are commonly used to show the progression of weather fronts, hurricanes, tornados, and other features on weather forecasts.

SAS/GRAPH offers two methods for creating animated graphical output: the GIFANIM device driver; the JAVAMETA device driver. Each method has advantages. Output created with the GIFANIM device driver is easily viewed on most computers. Output created with the JAVAMETA driver requires a SAS-supplied application for viewing, but it can include on-screen controls for controlling animation speed and for viewing the animation one frame at a time using a standard web browser.

The following data step creates a SAS data set (POPCTR) using data from the US Census Bureau on the location of the US population center. The data set is to be used to add markers to a map, with each marker placed at the longitude and latitude of the US population center in any given year. Therefore, many of the variables in the data set are Annotate data set variables. If you are not familiar with Annotate facility within SAS/GRAPH, it can be used to customize SAS/GRAPH output in ways that are not possible with PROC GMAP options alone (see the REFERENCES at the end of the paper for suggested reading to learn more about the Annotate facility).

#### ANIMATE01.SAS

```
* create an Annotate data set - used to place a symbol at the
* location of the US population center in each of the years in the DATALINES file;
data popctr;
  retain function 'label' xsys ysys '2' hsys '3' position '5'
         size 3.5 color 'black' style 'marker' text 'C' when 'a';
  infile datalines dcl;
```

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