

## 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;
```

# Sasgraph Software Reference Version 6

The logo consists of a light blue horizontal bar with a rounded right end. To the right of the bar is a red semi-circular shape with a gradient, resembling a stylized 'S' or a target.

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*SAS/GRAPH Software* Statistical Analysis System Institute, 1992      **SAS/GRAPH Software** Statistical Analysis System Institute, 1990      **SAS/GRAPH Software** SAS Institute Staff, 1992-02-01      **SAS**, 1991      *SAS/GRAPH software* NC) SAS INSTITUTE (Cary, SAS Institute Inc, Statistical Advanced Software, 1990 SAS GRAPH programs Environment Statements The annotate facility The data step graphics interface      **Argonne Computing Newsletter**, 1991-12      *Revival: The Handbook of Software for Engineers and Scientists* (1995) Paul Ross, 2018-05-04 The Handbook of Software for Engineers and Scientists is a single volume ready reference for the practicing engineer and scientist in industry government and academia as well as the novice computer user It provides the most up to date information in a variety of areas such as common platforms and operating systems applications programs networking and many other problem solving tools necessary to effectively use computers on a daily basis Specific platforms and environments thoroughly discussed include MS DOS Microsoft Windows™ the Macintosh and its various systems UNIX™ DEC VAX™ IBM mainframes OS 2 Windows™ NT and NeXTSTEP™ Word processing desktop publishing spreadsheets databases integrated packages computer presentation systems groupware and a number of useful utilities are also covered Several extensive sections in the book are devoted to mathematical and statistical software Information is provided on circuits and control simulation programs finite element tools and solid modeling tools      **SAS Software** SAS Institute, 1993      **The How-to Book for SAS/GRAPH Software** Thomas Miron, 1995 This is the ultimate quick fix guide for SAS GRAPH software users Have a problem or particular task in mind Short stand alone chapters filled with examples will guide you through specific functions step by step Organized so you can skip directly to the solutions you need this book is like a series of flash cards It is minimal in text with numerous fully annotated examples Users of all levels including those who use SAS GRAPH infrequently will find this an inviting and eminently practical approach to handling their real world graphics projects Even if you have no immediate task or problem you will enjoy browsing through the various topics covered Book jacket      **SAS for Linear Models** Ramon Littell, Walter W. Stroup, Rudolf Freund, 2002-05-24 Features and capabilities of the REG ANOVA and GLM procedures are included in this introduction to analysing linear models with the SAS System This guide shows how to apply the appropriate procedure to data analysis problems and understand PROC GLM output Other helpful guidelines and discussions cover the following significant areas Multivariate linear models lack of fit analysis covariance and heterogeneity of slopes a classification with both crossed and nested effects and analysis of variance for balanced data This fourth edition includes updated examples new software related features and new material including a chapter on generalised linear models Version 8 of the SAS System was used to run the SAS code examples in the book Provides clear explanations of how to use SAS to analyse linear models Includes numerous SAS outputs Includes new chapter on generalised linear models Uses version 8 of the SAS system This book assists data analysts who use SAS STAT software to analyse data using regression analysis and analysis of variance It

assumes familiarity with basic SAS concepts such as creating SAS data sets with the DATA step and manipulating SAS data sets with the procedures in base SAS software      **SAS/GRAPH Software, Changes and Enhancements** SAS

Institute,1991      **SAS/GRAPH Software** SAS Institute,1999      *Using SAS Screen Control Language in Release 6.06* ,1990

Parklawn Computer Center User's Guide Parklawn Computer Center (U.S.),1991      **Introduction to Market Research**

**Using the SAS System** ,1994 Loaded with examples this book is for anyone interested in learning how to use SAS software for market research It focuses on ways to help you analyze your market enabling you to perform random sampling create survey forms and manage survey data analyze qualitative frequency data write tabular reports and produce plots charts and maps perform basic statistical analysis including regression and access database tables and files      **Sas/Graph Software:**

**Reference** SAS Institute,1990      *Relations of Surface-water Quality to Streamflow in the Raritan River Basin, New Jersey, Water Years 1976-93* Debra E. Buxton,Kathryn Hunchak-Kariouk,R. Edward Hickman,1999      **Water-resources**

**Investigations Report** ,1999      Seasonal Adjustment with the X-11 Method Dominique Ladiray,Benoit

Quenneville,2012-12-06 The authors Dominique Ladiray and Benoit Quenneville provide a unique and comprehensive r view of the X 11 Method of seasonal adjustment They review the original X 11 Method developed at the US Bureau of the Census in the mid 1960 s the X ll core of the X ll ARTMA Method developed at Statistics Canada in the 1970 s and the X 11 module in the X 12 ARTMA Method developed more recently at the Bureau of the Census The review will prove extremely useful to anyone working in the field of seasonal adjustment who wants to understand the X 11 Method and how it fits into the broader picture of seasonal adjustment What the authors designate as the X 11 Method was originally desig nated the X 11 Variant of the Census Method IT Seasonal Adjustment Program It was the culmination of the pioneering work undertaken at the Bureau of the Census by Julius Shiskin in the 1950 s Shiskin introduced the Census Method T Seasonal Adjustment Program in 1954 and soon followed it with the introduction of Method TT in 1957      **Relations of Surface-water Quality to Streamflow in**

**the Hackensack, Passaic, Elizabeth, and Rahway River Basins, New Jersey, Water Years 1976-93 ; Prepared in Cooperation with the New Jersey Department of Environmental Protection** Debra E. Buxton,Kathryn

Hunchak-Kariouk,R. Edward Hickman,1998

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