

PRODUCING EFFECTIVE GRAPHS WITH SAS/GRAPH® SOFTWARE

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INTRODUCTION

Effective graphs clarify and focus data. They are accurate, unambiguous, readable, and attractive. Effective graphs are the result of attention to visual details, focus on critical information, and consistent presentation of data in an appropriate form. This paper explores some characteristics of effective graphs and shows how SAS/GRAPH software helps you produce graphs that are informative, complete, and clear.

PART 1: USING GRAPHIC ELEMENTS EFFECTIVELY

From a design perspective, graphs are made up of many elements such as typeface, lines, symbols, patterns, and so forth. The treatment of these elements affects the graph's clarity and ability to convey information. If the elements embody the design principles of simplicity, focus, contrast, and legibility, the graph will be readable and attractive. Otherwise, the graph data being cluttered, confusing, and unintelligible. This part presents some principles of good graphic design and demonstrates how to apply these principles in the design and production of your graphs.

Guideline 1: Provide Legible Text

Text in a graph should be informative and readable, not decorative. In addition, it should draw attention to the most important areas of the graph.

Make the Text Large Enough to be Readable

When designing text, consider whether the reader will view the graph on a printed page, as a slide, on an overhead transparency, or on a computer screen, and adjust the text size accordingly. In SAS/GRAPH software, you can easily control the size of titles and other text for one graph or for a series of graphs with the HTITLE= and HTEXT= graphics options in a GOPTIONS statement.

When specifying text height, consider both the size of the characters and the units. Specifying text height in terms of percentage of the graphics output area keeps the text in proportion to the overall dimensions of the output regardless of the output device. To make percent the default unit for most size specifications, specify GUHT=PCT in the

GOPTIONS statement. These graphics options set the height of the first title (8 percent) and all other text height (4.8 percent) in Output 1:

```
graph hline graph hopt hsize=4.8 htext=4.8;
```

Limit Variations in Type to One or Two per Graph

Since graphs typically contain two types of information — information about the graph (such as titles or footnotes), and information that is part of the graph (such as legends and axis labels or values) — two distinct typefaces or styles are usually adequate. Here are two approaches to selecting type:

Using two typefaces. Select one typeface for display text such as titles and footnotes, and another typeface for labels for parts of the graph (axes, tick marks, bars), comments, or other general text. You can specify type for the entire graph with the FTITLE= and FTEXT= graphics options in a GOPTIONS statement. FTITLE= affects the first title (generated by the TITLE1 statement) and FTEXT= affects the rest of the text.

Output 1. Using Two Typefaces



Be sure to choose distinct typefaces. Typically, one serif face and one sans serif face make a good combination. This GOPTIONS statement specifies Zapf (a serif font) for the first title and Swiss (a sans serif font) for all other text in Output 1:

```
graph hline graph hopt hsize=4  
ftitle=swiss ftext=zapf;
```

In addition, the second title and the footnote also use Zapf so that they match the first title. Font

The Howto For Sasgraph Software

Melanie Jacobs Krieger



The Howto For Sasgraph Software:

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

The How-to Book for SAS/GRAPH Software Thomas Miron,1995 **Argonne Computing Newsletter** ,1992-07

Carpenter's Guide to Innovative SAS Techniques Art Carpenter,2012-03-02 Carpenter's Guide to Innovative SAS Techniques offers advanced SAS programmers an all in one programming reference that includes advanced topics not easily found outside the depths of SAS documentation or more advanced training classes Art Carpenter has written fifteen chapters of advanced tips and techniques including topics on data summary data analysis and data reporting Special emphasis is placed on DATA step techniques that solve complex data problems There are numerous examples that illustrate advanced techniques that take advantage of formats interface with the macro language and utilize the Output Delivery System Additional topics include operating system interfaces table lookup techniques and the creation of customized reports

Producing High-Quality Figures Using SAS/GRAPH and ODS Graphics Procedures Charlie Chunhua Liu,2015-02-06 This book demonstrates how to create commonly used figures and plots with SAS GRAPH and ODS Graphics procedures It provides all the details on selecting the right figure formats options and fonts In depth instructions and SAS programs using procedures in both SAS GRAPH and ODS Graphics show how to generate sample figures in listing graphics formats and ODS document files Each chapter includes practical examples and SAS programs Readers can easily modify the SAS programs to develop high quality figures to meet their own needs Statistical Programming with SAS/IML Software Rick

Wicklin,2010-10-01 Annotation SAS IML software is a powerful tool for data analysts because it enables implementation of statistical algorithms that are not available in any SAS procedure Rick Wicklin's Statistical Programming with SAS IML Software is the first book to provide a comprehensive description of the software and how to use it He presents tips and techniques that enable you to use the IML procedure and the SAS IML Studio application efficiently In addition to providing a comprehensive introduction to the software the book also shows how to create and modify statistical graphs call SAS procedures and R functions from a SAS IML program and implement such modern statistical techniques as simulations and bootstrap methods in the SAS IML language Written for data analysts working in all industries graduate students and consultants Statistical Programming with SAS IML Software includes numerous code snippets and more than 100 graphs

Carpenter's Complete Guide to the SAS Macro Language, Third Edition Art Carpenter,2016-08-25 For SAS

programmers or analysts who need to generalize their programs or improve programming efficiency Art Carpenter thoroughly updates his highly successful second edition of Carpenter's Complete Guide to the SAS Macro Language with an extensive collection of new macro language techniques and examples Addressing the composition and operation of the SAS macro facility and the SAS macro language this third edition offers nearly 400 ready to use macros macro functions and macro tools that enable you to convert SAS code to macros define macro variables and more Users with a basic understanding of Base SAS who are new to the SAS macro language will find more detail utilities and references to additional learning opportunities advanced macro language programmers who need help with data driven macros and dynamic application development will find greatly expanded treatment of these topics This revised and enlarged edition includes the following topics New and expanded introduction to the macro language Functions automatic macro variables and macro statements new to the macro language Expanded macro language tools that interface with the operating system Expanded data driven methodologies used to build dynamic applications Expanded discussion of list processing with four alternative approaches presented Additional file and data management examples Expanded discussion of CALL EXECUTE and DOSUBL New discussion of using the macro language on remote servers Expanded discussion and examples of macro quoting Far beyond a reference manual issued from an ivory tower this book is pragmatic and example driven Yes you will find syntax examples yes the code is explained But the focus of this book is on actual code used to solve real world business problems In fact an entire appendix is dedicated to listing the nearly 70 classes of problems that are solved by programs covered in this edition Discussion of the examples elucidates the pros and cons of the particular solution and often suggests alternative approaches Therefore this book provides you both a compendium of reusable and adaptable code and opportunities for deepening your understanding and growing as a SAS programmer **SAS Essentials** Alan C. Elliott, Wayne A. Woodward, 2015-08-18 A step by step introduction to using SAS statistical software as a foundational approach to data analysis and interpretation Presenting a straightforward introduction from the ground up SAS Essentials Mastering SAS for Data Analytics Second Edition illustrates SAS using hands on learning techniques and numerous real world examples Keeping different experience levels in mind the highly qualified author team has developed the book over 20 years of teaching introductory SAS courses Divided into two sections the first part of the book provides an introduction to data manipulation statistical techniques and the SAS programming language The second section is designed to introduce users to statistical analysis using SAS Procedures Featuring self contained chapters to enhance the learning process the Second Edition also includes Programming approaches for the most up to date version of the SAS platform including information on how to use the SAS University Edition Discussions to illustrate the concepts and highlight key fundamental computational skills that are utilized by business government and organizations alike New chapters on reporting results in tables and factor analysis Additional information on the DATA step for data management with an emphasis on importing data

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create a custom style change attributes and set output options Whether you are just learning how to produce graphs or have been working with graphs for a while this book is a must have resource to solve even the most challenging clinical graph problems

Classical Methods of Statistics Otto J.W.F. Kardaun,2005-09-16 Classical Methods of Statistics is a guidebook combining theory and practical methods It is especially conceived for graduate students and scientists who are interested in the applications of statistical methods to plasma physics Thus it provides also concise information on experimental aspects of fusion oriented plasma physics In view of the first three basic chapters it can be fruitfully used by students majoring in probability theory and statistics The first part deals with the mathematical foundation and framework of the subject Some attention is given to the historical background Exercises are added to help readers understand the underlying concepts In the second part two major case studies are presented which exemplify the areas of discriminant analysis and multivariate profile analysis respectively To introduce these case studies an outline is provided of the context of magnetic plasma fusion research In the third part an overview is given of statistical software separate attention is devoted to SAS and S PLUS The final chapter presents several datasets and gives a description of their physical setting Most of these datasets were assembled at the ASDEX Upgrade Tokamak All of them are accompanied by exercises in form of guided minor case studies The book concludes with translations of key concepts into several languages

How to Create an Independent Research Program Melanie Jacobs Krieger,1999-06-15 Only a few hundred schools across the United States have research programs Although some of the schools with programs are magnet schools or highly advantaged schools many ordinary schools have successful programs Every school is capable of at least a modest program for those students who want to work on independent research projects This practical book provides a school district with a comprehensive guide on how to establish an independent research program Use this book as your step by step guide to creating an independent research program and preparing your students to enter the national independent research competitions Although the curriculum described in this book is based on the objectives of various national competitions the students are not in a competitive classroom environment Instead the competition rules are used to create a working atmosphere that resembles the professional world Krieger takes you from selling the idea of the program to educators students and the community through critical curriculum and methodology for the teacher to finally entering national research competitions and continuing your program

SAS Communications SAS Institute,1985

Computerworld ,1982-04-05 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

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largest global IT media network *Energy Research Abstracts* ,1988 *Computerworld* ,1985-04-22 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network **SAS Programming and Data**

Visualization Techniques Philip R. Holland,2015-08-19 SAS Programming and Data Visualization Techniques A Power User's Guide brings together a wealth of ideas about strategic and tactical solutions to everyday situations experienced when transferring extracting processing analyzing and reporting the valuable data you have at your fingertips Best you can achieve most of the solutions using the SAS components you already license meaning that this book's insights can keep you from throwing money at problems needlessly Author Philip R Holland advises a broad range of clients throughout Europe and the United States as an independent consultant and founder of Holland Numerics Ltd a SAS technical consultancy In this book he explains techniques through code samples and example that will enable you to increase your knowledge of all aspects of SAS programming improve your coding productivity and interface SAS with other programs He also provides an expert's overview of Graph Templates which was recently moved into Base SAS You will learn to create attractive standardized reusable and platform independent graphs both statistical and non statistical to help you and your business users explore visualize and capitalize on your company's data In addition you will find many examples and cases pertaining to healthcare finance retail and other industries Among other things SAS Programming and Data Visualization Techniques will show you how to Write efficient and reusable SAS code Combine look up data sets with larger data sets effectively Run R and Perl from SAS Run SAS programs from SAS Studio and Enterprise Guide Output data into insightful valuable charts and graphs SAS Programming and Data Visualization Techniques prepares you to make better use of your existing SAS components by learning to use the newest features improve your coding efficiency help you develop applications that are easier to maintain and make data analysis easier In other words it will save you time money and effort and make you a more valuable member of the development team What You'll Learn How to write more efficient SAS code either code that runs quicker code that is easier to maintain or both How to do more with the SAS components you already license How to take advantage of the newest features in SAS How to interface external applications with SAS software How to create graphs using SAS ODS Graphics Who This Book Is For SAS programmers wanting to improve their existing programming skills and programming managers wanting to make better use of the SAS software they already license

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of The Howto For Sasgraph Software.

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