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Visualization Techniques: A Power User's Guide

SAS Programming And Data Visualization Techniques: A Power User's Guide

When it comes to business intelligence and analytical capabilities, SAS Visual Analytics is the premier solution for data discovery, visualization, and reporting. An Introduction to SAS Visual Analytics will show you how to make sense of your complex data with the goal of leading

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you to smarter, data-driven decisions without having to write a single line of code - unless you want to! You will be able to use SAS Visual Analytics to access, prepare, and present your data to anyone anywhere in the world. SAS Visual Analytics automatically highlights key relationships, outliers, clusters, trends and more. These abilities will guide you to critical insights that inspire action from your data. With this book, you will become proficient using SAS

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Visual Analytics to present data and results in customizable, robust visualizations, as well as guided analyses through auto-charting. With interactive dashboards, charts, and reports, you will create visualizations which convey clear and actionable insights for any size and type of data. This book largely focuses on the version of SAS Visual Analytics on SAS 9.4, although it is available on both 9.4 and SAS Viya platforms. Each version is

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considered the latest release, with subsequent releases planned to continue on each platform; hence, the Viya version works similarly to the 9.4 version and will look familiar. This book covers new features of each and important differences between the two. With this book, you will learn how to: Build your first report using the SAS Visual Analytics Designer Prepare a dashboard and determine the best layout Effectively use geo-spatial objects to add

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location analytics to reports Understand and use the elements of data visualizations Prepare and load your data with the SAS Visual Analytics Data Builder Analyze data with a variety of options, including forecasting, word clouds, heat maps, correlation matrix, and more Understand administration activities to keep SAS Visual Analytics humming along Optimize your environment for considerations such as scalability, availability, and efficiency

between components of your SAS software deployment and data providers SAS users in the Health and Life Sciences industry need to create complex graphs to analyze biostatistics data and clinical data, and they need to submit drugs for approval to the FDA. Graphs used in the HLS industry are complex in nature and require innovative usage of the graphics features. Clinical Graphs Using SAS® provides the knowledge, the code, and real-world examples that enable you to

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create common clinical graphs using SAS graphics tools, such as the Statistical Graphics procedures and the Graph Template Language. This book describes detailed processes to create many commonly used graphs in the Health and Life Sciences industry. For SAS® 9.3 and SAS® 9.4 it covers many improvements in the graphics features that are supported by the Statistical Graphics procedures and the Graph Template Language, many of which are a direct

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result of the needs of the Health and Life Sciences community. With the addition of new features in SAS® 9.4, these graphs become positively easy to create. Topics covered include the usage of SGPLOT procedure, the SGPANEL procedure and the Graph Template Language for the creation of graphs like forest plots, swimmer plots, and survival plots.

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

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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. This book is part of the SAS

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Press program.

Data visualization has emerged as a serious scholarly topic, and a wide range of tools have recently been developed at an accelerated pace to aid in this research area. Examining different ways of analyzing big data can result in increased efficiency for many corporations and organizations. Data Visualization and Statistical Literacy for Open and Big Data highlights methodological developments in the way

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that data analytics is both learned and taught. Featuring extensive coverage on emerging relevant topics such as data complexity, statistics education, and curriculum development, this publication is geared toward teachers, academicians, students, engineers, professionals, and researchers that are interested in expanding their knowledge of data examination and analysis. A Theory and Program-driven Approach Infographics Powered by SAS

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Advanced Programming Using SAS 9.4 Quick, Effective, and Productive Data Science

Handbook of SAS® DATA Step Programming

TEXT ANALYTICS WITH SAS

Business Analytics with SAS Studio

Discover how to use the popular RStudio IDE as a professional tool that includes code refactoring support, debugging, and Git version control integration. This book gives you a tour of RStudio and shows you how it helps you do exploratory data analysis; build

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data visualizations with ggplot; and create custom R packages and web-based interactive visualizations with Shiny. In addition, you will cover common data analysis tasks including importing data from diverse sources such as SAS files, CSV files, and JSON. You will map out the features in RStudio so that you will be able to customize RStudio to fit your own style of coding. Finally, you will see how to save a ton of time by adopting best practices and using packages to extend RStudio. Learn RStudio IDE is a quick, no-nonsense tutorial of RStudio that will give you a head start to develop the insights you

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need in your data science projects. What You Will Learn Quickly, effectively, and productively use RStudio IDE for building data science applications Install RStudio and program your first Hello World application Adopt the RStudio workflow Make your code reusable using RStudio Use RStudio and Shiny for data visualization projects Debug your code with RStudio Import CSV, SPSS, SAS, JSON, and other data Who This Book Is For Programmers who want to start doing data science, but don't know what tools to focus on to get up to speed quickly. To write an accomplished program in the DATA

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step of SAS®, programmers must understand programming logic and know how to implement and even create their own programming algorithm. Handbook of SAS® DATA Step Programming shows readers how best to manage and manipulate data by using the DATA step. The book helps novices avoid common mistakes resulting from a lack of understanding fundamental and unique SAS programming concepts. It explains that learning syntax does not solve all problems; rather, a thorough comprehension of SAS processing is needed for successful programming. The author also guides readers through a programming

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task. In most of the examples, the author first presents strategies and steps for solving the problem, then offers a solution, and finally gives a more detailed explanation of the solution. Understanding the DATA steps, particularly the program data vector (PDV), is critical to proper data manipulation and management in SAS. This book helps SAS programmers thoroughly grasp the concept of DATA step processing and write accurate programs in the DATA step. Numerous supporting materials, including data sets and programs used in the text, are available on the book's CRC Press web page.

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Learn data science concepts with real-world examples in SAS! End-to-End Data Science with SAS: A Hands-On Programming Guide provides clear and practical explanations of the data science environment, machine learning techniques, and the SAS programming knowledge necessary to develop machine learning models in any industry. The book covers concepts including understanding the business need, creating a modeling data set, linear regression, parametric classification models, and non-parametric classification models. Real-world business examples and example code are used to demonstrate each process step-by-

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step. Although a significant amount of background information and supporting mathematics are presented, the book is not structured as a textbook, but rather it is a user's guide for the application of data science and machine learning in a business environment. Readers will learn how to think like a data scientist, wrangle messy data, choose a model, and evaluate the model's effectiveness. New data scientists or professionals who want more experience with SAS will find this book to be an invaluable reference. Take your data science career to the next level by mastering SAS programming

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for machine learning models.

SAS Visual Analytics is a business intelligence and analytics platform that provides visual exploration and discovery, self-service analytics, and interactive reporting for organizations of all sizes. All organizations have a wide variety of users, and each user needs something different from data and analytics. SAS Visual Analytics allows everyone to easily discover and share powerful insights that inspire action.

Several useful papers have been written to demonstrate how to use these techniques. We have carefully selected a handful of these

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from recent Global Forum contributions to introduce you to the topic and let you sample what each has to offer. Also available free as a PDF from sas.com/books.

A practical guide to performing effective queries, data visualization, and reporting techniques

End-to-End Data Science with SAS

Theory, Techniques and Tools for Visual Analytics

SAS For Dummies

Visual Analytics, Statistics, and Investigations

SAS Programming for R Users

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Statistical Programming in SAS

Practical data design tips from a data visualization expert of the modern age

Data doesn't decrease; it is ever-increasing and can be overwhelming to organize in a way that makes sense to its intended audience. Wouldn't it be wonderful if we could actually visualize data in such a way that we could maximize its potential and tell a story in a clear, concise manner?

Thanks to the creative genius of Nathan

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Yau, we can. With this full-color book, data visualizationguru and author Nathan Yau uses step-by-step tutorials to show youhow to visualize and tell stories with data. He explains how together, parse, and format data and then design high qualitygraphics that help you explore and present patterns, outliers, andrelationships. Presents a unique approach to visualizing and telling storieswith data, from a data visualization expert and the creator

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offlowingdata.com, Nathan Yau Offers step-by-step tutorials and practical design tips for creating statistical graphics, geographical maps, and information design to find meaning in the numbers Details tools that can be used to visualize data-native graphics for the Web, such as ActionScript, Flash libraries, PHP, and JavaScript and tools to design graphics for print, such as Rand Illustrator Contains numerous examples and descriptions of

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patterns and outliers and explains how to show them. Visualize This demonstrates how to explain data visually so that you can present your information in a way that is easy to understand and appealing.

Visual Data Mining—Opening the Black Box Knowledge discovery holds the promise of insight into large, otherwise opaque datasets. The nature of what makes a rule interesting to a user has been discussed widely but most agree that

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it is a subjective quality based on the practical usefulness of the information. Being subjective, the user needs to provide feedback to the system and, as is the case for all systems, the sooner the feedback is given the quicker it can influence the behavior of the system. There have been some impressive research activities over the past few years but the question to be asked is why is visual data mining only now being investigated commercially?

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Certainly, there have been arguments for visual data mining for a number of years - Ankerst and others argued in 2002 that current (autonomous and opaque) analysis techniques are inefficient, as they fail to directly embed the user in dataset exploration and that a better solution involves the user and algorithm being more tightly coupled. Grinstein stated that the "current state of the art data mining tools are automated, but the perfect

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data mining tool is interactive and highly participatory," while Han has suggested that the "data selection and viewing of mining results should be fully interactive, the mining process should be more interactive than the current state of the art and embedded applications should be fairly automated." A good survey on 3 techniques until 2003 was published by de Oliveira and Levkowitz .

Learn how to use R to turn raw data

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into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Golemund guide you through the steps of importing,

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wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to:

- Wrangle—transform your datasets into a form convenient for analysis
- Program—learn powerful R tools for

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solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset

Communicate—learn R Markdown for integrating prose, code, and results

Although the web and online SAS® communities can provide volumes of information for programmers, these resources are often overwhelming and

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lack a simple path to guide coding SAS. This reference, however, does provide such a path from a data user's standpoint vs. seeing things as a code writer. Written by an experienced SAS programmer, this book lets SAS coders easily find explanations and clarification to typical programming problems. This book presents practical real-world data analysis steps encountered by analysts in the field. These steps include the following:

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Getting to know raw data Understanding variables Getting data into SAS Creating new data variables Performing data manipulations, including sorting, ranking, grouping, subtotal, total, and percentage Statistical testing under a broad range of logical and conditional settings Data visualization Throughout this book, statements and codes are accompanied by thorough annotation. Line-by-line explanations ensure that all terms are clearly explained. Code

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examples and sample codes have broad usages. All the examples are related to highway transportation where the use of big data is exploding and presenting new challenges and opportunities for growth. Clear and precise practical introductory material on statistics is integrated into the relevant SAS procedures to bolster users' confidence in applying such methods to their own work. Comprehensive and foundational coverage, systematic introduction of

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programming topics, thoroughly annotated code examples, and real-world code samples combine to make SAS® Coding Primer and Reference Guide an indispensable reference for beginners and experienced programmers.

An Introduction to SAS Visual Analytics

Learn RStudio IDE

Learn Data Science Using SAS Studio

Mastering SAS Programming for Data

Warehousing

SAS® Coding Primer and Reference Guide

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Special Collection

Simulating Data with SAS

This first book in the series covers how to access data files, libraries, and existing code in SAS Studio. You also learn about new procedures in SAS Viya, how to write new code, and how to use some of the pre-installed tasks that come with SAS Visual Data Mining and Machine Learning. In the last chapter, you learn how to use the features in SAS Data Preparation to perform data management tasks using SAS Data Explorer, SAS Data Studio, and SAS Lineage Viewer. Also available free as a PDF from sas.com/books.

Unlock the essentials of SAS programming! Fundamentals

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of Programming in SAS: A Case Studies Approach gives a complete introduction to SAS programming. Perfect for students, novice SAS users, and programmers studying for their Base SAS certification, this book covers all the basics, including: working with data creating visualizations data validation good programming practices Experienced programmers know that real-world scenarios require practical solutions. Designed for use in the classroom and for self-guided learners, this book takes a novel approach to learning SAS programming by following a single case study throughout the text and circling back to previous concepts to reinforce material. Readers will benefit from the variety of

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exercises, including both multiple choice questions and in-depth case studies. Additional case studies are also provided online for extra practice. This approach mirrors the way good SAS programmers develop their skills—through hands-on work with an eye toward developing the knowledge necessary to tackle more difficult tasks. After reading this book, you will gain the skills and confidence to take on larger challenges with the power of SAS.

Analyzing business data points with greater precision, efficiency, and speed **KEY FEATURES** [?] *Exposure to work on large datasets, data mining techniques, and SAS built-in functions. [?] Exciting examples and a step-by-step guide to*

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the entire field of business analytics. [?] Additional support of sophisticated SQL queries and the creation of strong visualization reports. DESCRIPTION This book teaches readers how to properly use SAS (R) Studio to enhance business analytics summaries and graphical reports to make more informed business decisions. Since the examples in the book are laid out in a logical sequence, no prior knowledge is required to get started with implementing what you learn in them. The book begins with configuring your SAS® OnDemand instance, complete with sample datasets and scripts. The book explains programming syntaxes before delving into sophisticated programming principles for

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managing data values and concludes with creating graphical reports for business data values. It explores how to implement datasets, read external files, execute conditional statements, loops, formats, text, date, numeric functions, and arrays. The book also helps writing SQL Statements such as joins, sets, index, views, etc. with Proc SQL, Univariate (PROC MEAN, PROC FREQ), Multivariate (PROC FREQ), and Design Graphs with the help of PROC SGPLOT. After reading this book, readers will be able to evaluate business data values and create excellent visualizations that will assist enterprises in making more informed business decisions. Readers will become confident to use SAS Studio's rich

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interface and develop analytical programs. WHAT YOU WILL LEARN [?] *Configuring Online SAS® OnDemand for Academics. [?] Writing BASE SAS Programming, and writing conditional, looping-based programs. [?] Implementing SAS built-in text, date, numeric functions, and reading external data files. [?] Using the SQL Statement with PROC SQL Processing. [?] Plotting attractive data visualization using PROC SGPLOT. [?] End-to-end case study on Employee Skill Development's Data Analytics and Visualization. WHO THIS BOOK IS FOR* This book is for those who wish to learn how to use SAS Studio's rich interface and develop an analytical program that helps make better decisions. Having

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a basic understanding of how data analytics works helps.

TABLE OF CONTENTS 1. *Introducing SAS Environment* 2. *Starting with SAS Programming* 3. *Data Mining and Storage Techniques in SAS* 4. *Controlling the Program Flow in SAS* 5. *Using SAS Built-In Functions* 6. *Working with Advanced Data Input Techniques* 7. *Getting Started with SQL Processing in SAS* 8. *Managing Database Tables in SAS* 9. *Working with Dataset in SAS* 10. *Data Visualization and Macro Programming with SAS* 11. *Case Study*

Elevate your reports with more user control and interactive elements Want to create exciting, user-friendly visualizations to bring greater intelligence to your organization? By

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mastering the full power of SAS Visual Analytics, you can add features that will enhance your reports and bring more depth and insight to your data. Interactive Reports in SAS Visual Analytics: Advanced Features and Customization is for experienced users who want to harness the advanced functionality of Visual Analytics on SAS Viya to create visualizations or augment existing reports. The book is full of real-world examples and step-by-step instructions to help you unlock the full potential of your reports. In this book, you will learn how to create interactive URL links to external websites use parameters to give the viewer more control add custom graphs and maps execute SAS code using

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SAS Viya jobs and more!

Hands-On SAS for Data Analysis

Visual Analytics with SAS Viya

PROC DOCUMENT by Example Using SAS

*Data Visualization and Statistical Literacy for Open and Big
Data*

A Case Studies Approach

Data Management Essentials Using SAS and JMP

A Data Visualization Guide for Business Professionals

**SAS Programming for R Users, based on the free
SAS Education course of the same name, is
designed for experienced R users who want to**

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transfer their programming skills to SAS. Emphasis is on programming and not statistical theory or interpretation. You will learn how to write programs in SAS that replicate familiar functions and capabilities in R. This book covers a wide range of topics including the basics of the SAS programming language, how to import data, how to create new variables, random number generation, linear modeling, Interactive Matrix Language (IML), and many other SAS procedures. This book also explains how to write R code directly in the SAS code editor for seamless integration between the two tools. Exercises are provided at the end of each

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chapter so that you can test your knowledge and practice your programming skills.

Do you want to create data analysis reports without writing a line of code? This book introduces SAS Studio, a free data science web browser-based product for educational and non-commercial purposes. The power of SAS Studio comes from its visual point-and-click user interface that generates SAS code. It is easier to learn SAS Studio than to learn R and Python to accomplish data cleaning, statistics, and visualization tasks. The book includes a case study about analyzing the data required for predicting the results of presidential elections in the

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state of Maine for 2016 and 2020. In addition to the presidential elections, the book provides real-life examples including analyzing stocks, oil and gold prices, crime, marketing, and healthcare. You will see data science in action and how easy it is to perform complicated tasks and visualizations in SAS Studio. You will learn, step-by-step, how to do visualizations, including maps. In most cases, you will not need a line of code as you work with the SAS Studio graphical user interface. The book includes explanations of the code that SAS Studio generates automatically. You will learn how to edit this code to perform more complicated advanced

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tasks. The book introduces you to multiple SAS products such as SAS Viya, SAS Analytics, and SAS Visual Statistics. What You Will Learn Become familiar with SAS Studio IDE Understand essential visualizations Know the fundamental statistical analysis required in most data science and analytics reports Clean the most common data set problems Use linear progression for data prediction Write programs in SAS Get introduced to SAS-Viya, which is more potent than SAS studio Who This Book Is For A general audience of people who are new to data science, students, and data analysts and scientists who are experienced but new to SAS. No

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programming or in-depth statistics knowledge is needed.

Data simulation is a fundamental technique in statistical programming and research. Rick Wicklin's *Simulating Data with SAS* brings together the most useful algorithms and the best programming techniques for efficient data simulation in an accessible how-to book for practicing statisticians and statistical programmers. This book discusses in detail how to simulate data from common univariate and multivariate distributions, and how to use simulation to evaluate statistical techniques. It also covers simulating correlated data, data for

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regression models, spatial data, and data with given moments. It provides tips and techniques for beginning programmers, and offers libraries of functions for advanced practitioners. As the first book devoted to simulating data across a range of statistical applications, **Simulating Data with SAS** is an essential tool for programmers, analysts, researchers, and students who use SAS software.

SAS Products and Releases: Base SAS: 9.3
SAS/ETS: 9.3 SAS/IML: 9.3 SAS/STAT: 9.3
Operating Systems: All

Data visualization enables decision makers to see analytics presented visually so that they can grasp

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difficult concepts or identify new patterns. SAS offers several solutions for visualizing your data, many of which are powered by SAS Viya. This book includes four visualization solutions powered by SAS Viya: SAS Visual Analytics, SAS Visual Statistics, SAS Visual Text Analytics, and SAS Visual Investigator. SAS visualization software is designed for anyone in your organization who wants to use and derive insights from data—from influencers, decision makers, and analysts to statisticians and data scientists. Also available as a free e-book from sas.com/books.

Programming and Data Management

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**How to Explore Numbers, Design Reports, and Gain
Insight into Your Data**

**Deliver Business Intelligence by Combining SQL
Processing, Insightful Visualizations, and Various
Data Mining Techniques (English Edition)**

Base Programming Using SAS 9.4

A Programmer's Guide, Second Edition

**Data Management, Statistical Analysis, and
Graphics, Second Edition**

Interactive Reports in SAS® Visual Analytics

The fun and easy way to learn to use this
leading business intelligence tool Written
by an author team who is directly involved

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with SAS, this easy-to-follow guide is fully updated for the latest release of SAS and covers just what you need to put this popular software to work in your business. SAS allows any business or enterprise to improve data delivery, analysis, reporting, movement across a company, data mining, forecasting, statistical analysis, and more. SAS For Dummies, 2nd Edition gives you the necessary background on what SAS can do for you and explains how to use the Enterprise Guide. SAS provides statistical

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and data analysis tools to help you deal with all kinds of data: operational, financial, performance, and more Places special emphasis on Enterprise Guide and other analytical tools, covering all commonly used features Covers all commonly used features and shows you the practical applications you can put to work in your business Explores how to get various types of data into the software and how to work with databases Covers producing reports and Web reporting tools, analytics, macros, and working with your data In the

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easy-to-follow, no-nonsense For Dummies format, SAS For Dummies gives you the knowledge and the confidence to get SAS working for your organization. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. 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

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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

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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

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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

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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

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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.

The official guide by the SAS Global Certification Program, SAS Certified Professional Prep Guide: Advanced Programming Using SAS 9.4 prepares you to take the new SAS 9.4 Advanced Programming

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Performance-Based Exam. New in this edition is a workbook whose sample scenarios require you to write code to solve problems and answer questions. Answers to the chapter quizzes and solutions to the sample scenarios in the workbook are included. You will also find links to exam objectives, practice exams, and other resources such as the Base SAS Glossary and a list of practice data sets. Major topics include SQL processing, SAS macro language processing, and advanced SAS programming techniques. All exam

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topics are covered in the following chapters:

- SQL Processing with SAS PROC SQL
- Fundamentals Creating and Managing Tables
- Joining Tables Using PROC SQL
- Joining Tables Using Set Operators
- Using Subqueries
- Advanced SQL Techniques
- SAS Macro Language
- Processing Creating and Using Macro Variables
- Storing and Processing Text
- Working with Macro Programs
- Advanced Macro Techniques
- Advanced SAS Programming Techniques
- Defining and Processing Arrays
- Processing Data Using Hash Objects
- Using SAS Utility

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Procedures Using Advanced Functions

Practice Programming Scenarios (Workbook)

BRIDGES THE GAP BETWEEN SAS AND R,

ALLOWING USERS TRAINED IN ONE LANGUAGE TO

EASILY LEARN THE OTHER SAS and R are

widely-used, very different software

environments. Prized for its statistical

and graphical tools, R is an open-source

programming language that is popular with

statisticians and data miners who develop

statistical software and analyze data. SAS

(Statistical Analysis System) is the

leading corporate software in analytics

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thanks to its faster data handling and smaller learning curve. SAS for R Users enables entry-level data scientists to take advantage of the best aspects of both tools by providing a cross-functional framework for users who already know R but may need to work with SAS. Those with knowledge of both R and SAS are of far greater value to employers, particularly in corporate settings. Using a clear, step-by-step approach, this book presents an analytics workflow that mirrors that of the everyday data scientist. This up-to-

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date guide is compatible with the latest R packages as well as SAS University Edition. Useful for anyone seeking employment in data science, this book: Instructs both practitioners and students fluent in one language seeking to learn the other Provides command-by-command translations of R to SAS and SAS to R Offers examples and applications in both R and SAS Presents step-by-step guidance on workflows, color illustrations, sample code, chapter quizzes, and more Includes sections on advanced methods and

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applications Designed for professionals, researchers, and students, SAS for R Users is a valuable resource for those with some knowledge of coding and basic statistics who wish to enter the realm of data science and business analytics. AJAY OHRI is the founder of analytics startup Decisionstats.com. His research interests include spreading open source analytics, analyzing social media manipulation with mechanism design, simpler interfaces to cloud computing, investigating climate change, and knowledge flows. He currently

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advises startups in analytics off shoring, analytics services, and analytics. He is the author of Python for R Users: A Data Science Approach (Wiley), R for Business Analytics, and R for Cloud Computing.

SAS Programming and Data Visualization
Techniques

A Book for Data Scientists

SAS for R Users

Data Visualization Techniques for Business
Reporting

A Guide to Its Origin, Content, and
Application Using SAS

Access PDF SAS Programming And Data Visualization Techniques: A Power User's Guide

Visual Data Mining

Learning SAS by Example

This hands-on, no-frills tutorial guide equips new and infrequent users with the SAS skills which are essential to data management.

PROC DOCUMENT by Example Using SAS demonstrates the practical uses of the DOCUMENT procedure, a part of the Output Delivery System, in SAS 9.3. Michael Tuchman explains how to work with PROC DOCUMENT, which is designed to store your SAS procedure output for replay at a later time without having to rerun your original SAS code. You'll learn how to: save a collection of procedure output, descriptive text, and supporting graphs that can be

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replayed as a single unit save output once and distribute that same output in a variety of ODS formats such as HTML, CSV, and PDF create custom reports by comparing output from the same procedure run at different points in time create a table of contents for your output modify the appearance of both textual and graphical ODS output even if the original data is no longer available or easily accessible manage your tabular and graphical output by using descriptive labels, titles, and footnotes rearrange the original order of output in a procedure to suit your needs After using this book, you'll be able to quickly and easily create libraries of professional-looking output that are accessible at any time.

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This book is part of the SAS Press program.

Graphical methods for quantitative data are well developed and widely used. However, until now with this comprehensive treatment, few graphical methods existed for categorical data. In this innovative book, the author presents many aspects of the relationships among variables, the adequacy of a fitted model, and possibly unusual features of the data that can best be seen and appreciated in an informative graphical display.

SAS software has been in existence for a long time and has been implemented in large, data-intensive environments, including data warehouses. This SAS book covers practical programming considerations to make when involving SAS

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in a data warehouse environment. You'll be able to develop the skills you need to apply SAS in your working environment.

Fundamentals of Programming in SAS

The FlowingData Guide to Design, Visualization, and Statistics

SAS and R

SAS Certified Specialist Prep Guide

Statistical Programming with SAS/IML Software

Visualize This

Administrative Healthcare Data

Master machine learning with SAS Viya! Machine learning can feel intimidating for new practitioners.

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Machine Learning with SAS Viya provides everything you need to know to get started with machine learning in SAS Viya, including decision trees, neural networks, and support vector machines. The analytics life cycle is covered from data preparation and discovery to deployment. Working with open-source code? Machine Learning with SAS Viya has you covered – step-by-step instructions are given on how to use SAS Model Manager tools with open source. SAS Model Studio features are highlighted to show how to carry out machine learning in SAS Viya. Demonstrations, practice tasks, and quizzes are included to help sharpen your skills. In this book, you will learn about: Supervised and

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unsupervised machine learning Data preparation and dealing with missing and unstructured data Model building and selection Improving and optimizing models Model deployment and monitoring performance Explains the source and content of administrative healthcare data, which is the product of financial reimbursement for healthcare services. The book integrates the business knowledge of healthcare data with practical and pertinent case studies as shown in SAS Enterprise Guide.

Learn to program SAS by example! Learning SAS by Example, A Programmer ' s Guide, Second Edition, teaches SAS programming from very basic concepts to

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more advanced topics. Because most programmers prefer examples rather than reference-type syntax, this book uses short examples to explain each topic. The second edition has brought this classic book on SAS programming up to the latest SAS version, with new chapters that cover topics such as PROC SGPLOT and Perl regular expressions. This book belongs on the shelf (or e-book reader) of anyone who programs in SAS, from those with little programming experience who want to learn SAS to intermediate and even advanced SAS programmers who want to learn new techniques or identify new ways to accomplish existing tasks. In an instructive and conversational tone, author Ron Cody

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clearly explains each programming technique and then illustrates it with one or more real-life examples, followed by a detailed description of how the program works. The text is divided into four major sections: Getting Started, DATA Step Processing, Presenting and Summarizing Your Data, and Advanced Topics. Subjects addressed include Reading data from external sources Learning details of DATA step programming Subsetting and combining SAS data sets Understanding SAS functions and working with arrays Creating reports with PROC REPORT and PROC TABULATE Getting started with the SAS macro language Leveraging PROC SQL Generating high-quality graphics Using advanced

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features of user-defined formats and informats
Restructuring SAS data sets Working with multiple observations per subject Getting started with Perl regular expressions You can test your knowledge and hone your skills by solving the problems at the end of each chapter.

An Up-to-Date, All-in-One Resource for Using SAS and R to Perform Frequent Tasks The first edition of this popular guide provided a path between SAS and R using an easy-to-understand, dictionary-like approach.

Retaining the same accessible format, SAS and R: Data Management, Statistical Analysis, and Graphics, Second Edition explains how to easily p

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Storytelling with Data

R for Data Science

Import, Tidy, Transform, Visualize, and Model Data

SAS Certified Professional Prep Guide

Visualizing Categorical Data

Advanced Features and Customization

SAS Programming and Data Analysis

Create compelling business infographics with SAS and familiar office productivity tools. A picture is worth a thousand words, but what if there are a billion words? When analyzing big data, you need a picture that cuts through the noise. This

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is where infographics come in.

Infographics are a representation of information in a graphic format designed to make the data easily understandable.

With infographics, you don't need deep knowledge of the data. The infographic combines story telling with data and provides the user with an approachable entry point into business data.

Infographics Powered by SAS : Data
Visualization Techniques for Business
Reporting shows you how to create graphics
to communicate information and insight

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from big data in the boardroom and on social media. Learn how to create business infographics for all occasions with SAS and learn how to build a workflow that lets you get the most from your SAS system without having to code anything, unless you want to! This book combines the perfect blend of creative freedom and data governance that comes from leveraging the power of SAS and the familiarity of Microsoft Office. Topics covered in this book include: SAS Visual Analytics SAS Office Analytics SAS/GRAPH software (SAS

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code examples) Data visualization with SAS
Creating reports with SAS Using reports
and graphs from SAS to create business
presentations Using SAS within Microsoft
Office

Don't simply show your data—tell a story
with it! Storytelling with Data teaches
you the fundamentals of data visualization
and how to communicate effectively with
data. You'll discover the power of
storytelling and the way to make data a
pivotal point in your story. The lessons
in this illuminative text are grounded in

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theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or presentation. Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use your data to create an engaging, informative, compelling story. Specifically, you'll learn how to: Understand the importance of

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context and audience Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your information Direct your audience's attention to the most important parts of your data Think like a designer and utilize concepts of design in data visualization Leverage the power of storytelling to help your message resonate with your audience Together, the lessons in this book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of

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ineffective graphs, one exploding 3D pie chart at a time. There is a story in your data—Storytelling with Data will give you the skills and power to tell it!

Statistical Programming in SAS Second Edition provides a foundation for programming to implement statistical solutions using SAS, a system that has been used to solve data analytic problems for more than 40 years. The author includes motivating examples to inspire readers to generate programming solutions. Upper-level undergraduates, beginning

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graduate students, and professionals involved in generating programming solutions for data-analytic problems will benefit from this book. The ideal background for a reader is some background in regression modeling and introductory experience with computer programming. The coverage of statistical programming in the second edition includes □ Getting data into the SAS system, engineering new features, and formatting variables □ Writing readable and well-documented code □ Structuring, implementing, and debugging

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programs that are well documented □
Creating solutions to novel problems □
Combining data sources, extracting parts of data sets, and reshaping data sets as needed for other analyses □ Generating general solutions using macros □
Customizing output □ Producing insight-inspiring data visualizations □ Parsing, processing, and analyzing text □
Programming solutions using matrices and connecting to R □ Processing text □
Programming with matrices □ Connecting SAS with R □ Covering topics that are part of

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both base and certification exams. Quick and Easy Access to Key Elements of Documentation Includes worked examples across a wide variety of applications, tasks, and graphics A unique companion for statistical coders, Using SAS for Data Management, Statistical Analysis, and Graphics presents an easy way to learn how to perform an analytical task in SAS, without having to navigate through the extensive, idiosyncratic, and sometimes unwieldy software documentation. Organized by short, clear descriptive entries, the

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book covers many common tasks, such as data management, descriptive summaries, inferential procedures, regression analysis, multivariate methods, and the creation of graphics. Through the extensive indexing, cross-referencing, and worked examples in this text, users can directly find and implement the material they need. The text includes convenient indices organized by topic and SAS syntax. Demonstrating the SAS code in action and facilitating exploration, the authors present example analyses that employ a

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single data set from the HELP study. They also provide several case studies of more complex applications. Data sets and code are available for download on the book's website. Helping to improve your analytical skills, this book lucidly summarizes the features of SAS most often used by statistical analysts. New users of SAS will find the simple approach easy to understand while more expert SAS programmers will appreciate the invaluable source of task-oriented information.

Clinical Graphs Using SAS

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An advanced programming guide to designing
and managing Data Warehouses using SAS

Exploring SAS Viya

A Quick-Start Guide

Using SAS for Data Management, Statistical
Analysis, and Graphics

A Power User's Guide

Machine Learning with SAS Viya

The SAS® Certified Specialist Prep Guide: Base

Programming Using SAS® 9.4 prepares you to take the new
SAS 9.4 Base Programming -- Performance-Based Exam.

This is the official guide by the SAS Global Certification
Program. This prep guide is for both new and experienced

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SAS users, and it covers all the objectives that are tested on the exam. New in this edition is a workbook whose sample scenarios require you to write code to solve problems and answer questions. Answers for the chapter quizzes and solutions for the sample scenarios in the workbook are included. You will also find links to exam objectives, practice exams, and other resources such as the Base SAS® glossary and a list of practice data sets. Major topics include importing data, creating and modifying SAS data sets, and identifying and correcting both data syntax and programming logic errors. All exam topics are covered in these chapters: Setting Up Practice Data Basic Concepts Accessing Your Data Creating SAS Data Sets Identifying and Correcting SAS Language Errors Creating Reports Understanding DATA Step

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Processing BY-Group Processing Creating and Managing Variables Combining SAS Data Sets Processing Data with DO Loops SAS Formats and Informats SAS Date, Time, and Datetime Values Using Functions to Manipulate Data Producing Descriptive Statistics Creating Output Practice Programming Scenarios (Workbook)

"SAS Programming and Data Analysis is an instructional manual on programming with SAS and the general syntax of the SAS software. The Statistical Analysis System was developed by, and is proprietary to the SAS Institute, Cary, North Carolina. SAS is an integrated software that enables the user to enter, retrieve, manage, and analyze data in different ways. It has become one of the foremost software programs for business, government, and industry.

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Additionally, SAS is the software of choice for most institutions graduating majors and minor in Statistics."--Back cover.

Leverage the full potential of SAS to get unique, actionable insights from your data Key Features Build enterprise-class data solutions using SAS and become well-versed in SAS programming Work with different data structures, and run SQL queries to manipulate your data Explore essential concepts and techniques with practical examples to confidently pass the SAS certification exam Book Description SAS is one of the leading enterprise tools in the world today when it comes to data management and analysis. It enables the fast and easy processing of data and helps you gain valuable business insights for effective decision-making. This book will serve as

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a comprehensive guide that will prepare you for the SAS certification exam. After a quick overview of the SAS architecture and components, the book will take you through the different approaches to importing and reading data from different sources using SAS. You will then cover SAS Base and 4GL, understanding data management and analysis, along with exploring SAS functions for data manipulation and transformation. Next, you'll discover SQL procedures and get up to speed on creating and validating queries. In the concluding chapters, you'll learn all about data visualization, right from creating bar charts and sample geographic maps through to assigning patterns and formats. In addition to this, the book will focus on macro programming and its advanced aspects. By the end of this book, you will be well versed in

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SAS programming and have the skills you need to easily handle and manage your data-related problems in SAS. What you will learn

- Explore a variety of SAS modules and packages for efficient data analysis
- Use SAS 4GL functions to manipulate, merge, sort, and transform data
- Gain useful insights into advanced PROC SQL options in SAS to interact with data
- Get to grips with SAS Macro and define your own macros to share data
- Discover the different graphical libraries to shape and visualize data with
- Apply the SAS Output Delivery System to prepare detailed reports

Who this book is for

Budding or experienced data professionals who want to get started with SAS will benefit from this book. Those looking to prepare for the SAS certification exam will also find this book to be a useful resource. Some understanding of basic

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data management concepts will help you get the most out of this book.

A Hands-On Programming Guide