

Sas Macro Programming Made Easy

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SAS Hash Object Programming Made Easy Michele Burlew 2012 Hash objects, an efficient look-up tool in the SAS DATA step, are object-oriented programming structures that function differently from traditional SAS language statements. Michele Burlew's SAS Hash Object Programming Made Easy shows readers how to use these powerful features, which they can program to quickly look up and manage data and to conserve computing resources. SAS provides various look-up techniques, and hash objects are among the newest, so therefore many users may not have yet used them. Because the examples presented vary in complexity, SAS Hash Object Programming Made Easy is useful to SAS users of all experience levels, from novice programmer to advanced programmer. Novice programmers can adapt some of the simpler hash programming techniques as they develop their SAS programming skills. This book helps more experienced programmers learn how to take advantage of hash object programming by comparing traditional processing techniques to those that use hash objects. Additionally, users from diverse fields with different requirements can adapt the examples in SAS Hash Object Programming Made Easy to fit their unique situations. SAS Products and Releases: Base SAS: 9.3_M2, 9.3_M1, 9.3, 9.21_M3, 9.21_M2, 9.21_M1, 9.21, 9.2, 9.1.3, 9.1.2, 9.1, 9.0

SAS(R) Macro Programming Made Easy, Third Edition Michele M. Burlew 2018-07-20 This book provides beginners with a thorough foundation in SAS macro programming. The macro facility is a popular part of SAS. Macro programming is a required skill for many SAS programming jobs, and the SAS Advanced Programming Certification Exam tests macro processing concepts. Whether you're looking to become certified, land a job, or increase your skills, you'll benefit from SAS Macro Programming Made Easy, Third Edition. By following Michele Burlew's examples and step-by-step instructions, you'll be able to rapidly perform repetitive programming tasks, to pass information between programming steps more easily, and to make your programming easier to read. Updated for SAS 9.4, this book teaches you the elements of the macro facility (macro variables, macro programs, macro language), how to write a macro

program, techniques for macro programming, tips on using the macro facility, how the macro facility fits into SAS, and about the interfaces between the macro facility and other components of SAS. Beginning macro programmers will learn to write SAS macro programs quickly and efficiently. More experienced programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills. Ultimately, any user interested in automating their programs—including analysts, programmers, and report writers—will find Michele Burlew's book an excellent tutorial. This book is part of the SAS Press program.

SAS For Dummies Stephen McDaniel 2010-03-16 The fun and easy way to learn to use this leading business intelligence tool Written by an author team who is directly involved 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 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 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 Hash Object Programming Made Easy (Hardcover Edition) Michele M. Burlew 2012-09-14 Hash objects, an efficient look-up tool in the SAS DATA step, are object-oriented programming structures that function differently from traditional SAS language statements. Michele Burlew's SAS Hash Object Programming Made Easy shows readers how to use these powerful features, which they can program to quickly look up and manage data and to conserve computing resources. SAS provides various look-up techniques, and hash objects are among the newest, so therefore many users may not have yet used them. Because the examples presented vary in complexity, SAS Hash Object Programming Made Easy is useful to SAS users of all experience levels, from novice programmer to advanced programmer. Novice programmers can adapt some of the simpler hash programming techniques as they develop their SAS programming skills. This book helps more experienced programmers learn how to take advantage of hash object programming by comparing traditional processing techniques to those that use hash objects. Additionally, users from diverse fields with different requirements can adapt the examples in SAS Hash Object Programming Made Easy to fit their unique situations.

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 Programming for Enterprise Guide Users, Second Edition Neil Constable 2010-09-17 New and updated for SAS Enterprise Guide 4.2! In this pragmatic, example-driven book, author Neil Constable demonstrates how you can use SAS code to enhance the capabilities of SAS Enterprise Guide. Designed to help you gain extra value from the products you already have, SAS Programming for Enterprise Guide Users contains tips and techniques that show you a variety of features that cannot be accessed directly through the task interfaces. In all cases, techniques are shown with examples that you can try and test, plus additional exercises are included to give you more practice. The end result is more efficient and resilient use of SAS Enterprise Guide in a wider variety of business areas. Included is a discussion of the following subject areas: the Output Delivery System, advanced formatting, macro variables and macros, advanced reporting using PROC REPORT, highlighting in reports, hyperlinking between reports and graphs, data manipulation using SQL, data manipulation using the DATA step, extended graphics. By adding small amounts of code in key areas, SAS Enterprise Guide users can get more out of the product than the

tasks reveal. Users should be familiar with the SAS Enterprise Guide user interface and tasks. No programming experience is necessary. This book is part of the SAS Press program.

Handbook of SAS® DATA Step Programming Arthur Li 2013-04-10 To write an accomplished program in the DATA 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 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.

SAS(R) 9. 1 Macro Language SAS Institute 2004 Increase the modularity, flexibility, and maintainability of your SAS code with the SAS macro facility. This comprehensive reference provides complete information about macro language elements, interfaces between the macro facility and other parts of SAS software, and macro processing in general. With this title, you will learn how to create efficient and portable macro code, reduce the amount of text needed for common tasks, integrate macros with other parts of your SAS programs, and debug macros during development. This title is also available online. To take advantage of this book, you should have at least an intermediate knowledge of Base SAS programming. Supports releases 9.1 and higher of SAS software.

Reading External Data Files Using SAS Michele M. Burlew 2002 Reading External Data Files Using SAS: Examples Handbook is packed with examples that illustrate the many common issues you face when reading external data files. Whether you need to handle a variety of input styles (list, column, formatted, and named), accommodate external file features, or use different methods for reading the data, you're sure to find examples in this book that address your coding requirements. The examples illustrate techniques that range from simple to complex, and you can easily copy, modify, and reuse the examples. Book jacket.

The Little SAS Book Lora D. Delwiche 2019-10-11 A classic that just keeps getting better, The Little SAS Book is essential for anyone learning SAS programming. Lora Delwiche and Susan Slaughter offer a user-friendly approach so that readers can quickly and easily learn the most commonly used features of the SAS language. Each topic is presented in a self-contained, two-page layout complete with examples and graphics. Nearly every section has been revised to

ensure that the sixth edition is fully up-to-date. This edition is also interface-independent, written for all SAS programmers whether they use SAS Studio, SAS Enterprise Guide, or the SAS windowing environment. New sections have been added covering PROC SQL, iterative DO loops, DO WHILE and DO UNTIL statements, %DO statements, using variable names with special characters, the ODS EXCEL destination, and the XLSX LIBNAME engine. This title belongs on every SAS programmer's bookshelf. It's a resource not just to get you started, but one you will return to as you continue to improve your programming skills. Learn more about the updates to The Little SAS Book, Sixth Edition [here](#). Reviews for The Little SAS Book, Sixth Edition can be read [here](#).

SAS® Macro Programming Made Easy, Second Edition Michele Burlew 2007 Need help understanding the SAS macro facility? You will find all the answers that you need in this easy-to-follow book! Michele Burlew puts her decades of macro programming experience to work for you as she guides you through the basics, as well as the more complex features of the SAS macro facility. Updated extensively for SAS 9, this book includes plenty of examples and step-by-step instructions. You will learn the elements of the macro facility (macro variables, macro programs, macro language), how to write a macro program, macro programming techniques, tips on using the macro facility, how the macro facility fits into SAS, and about the interfaces between the macro facility and other components of SAS. New topics for the second edition include using SAS 9 macro and SAS language features, debugging macro programs, adding error checking to macro programs, and building a library of utility macro programs. Beginning macro programmers will learn to write SAS macro programs quickly and efficiently. More experienced macro programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills. It is also important to note that the macro facility is a highly popular part of SAS and found in the job requirements for many SAS programming jobs. In addition, macro facility concepts are tested on the SAS Advanced Programming Exam. The book assumes some SAS programming experience, including knowledge of how to write a DATA step and how to use SAS procedures.

Practical and Efficient SAS Programming Martha Messineo 2017-09-13 Learn to write SAS programs quickly and efficiently. Programming in SAS is flexible, but it can also be overwhelming. Many novice and experienced programmers learn how to write programs that use the DATA step and macros, but they often don't realize that a simpler or better way can achieve the same results. In a user-friendly tutorial style, Practical and Efficient SAS® Programming: The Insider's Guide provides general SAS programming tips that use the tools available in Base SAS, including the DATA step, the SAS macro facility, and SQL. Drawing from the author's 30 years of SAS programming experience, this book offers self-contained sections that describe each tip or trick and present numerous examples. It therefore serves as both an easy reference for a specific question, and a useful cover-to-cover read. As a bonus, the utility programs included in the appendixes will help you simplify your programs, as well as help you develop a sleek and efficient coding style. With this book, you will learn how to do the following: use the DATA step, the SAS macro facility, SQL,

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and other Base SAS tools more efficiently choose the best tool for a task use lookup tables simulate recursion with macros read metadata with the DATA step create your own programming style in order to write programs that are easily maintained Using this book, SAS programmers of all levels will discover new techniques to help them write programs quickly and efficiently.

SAS Macro Programming Made Easy Michele M. Burlew 2006 Updated extensively for SAS 9, this book includes examples and step-by-step instructions on macro programming. New topics for this second edition include using SAS 9 macro and SAS language features, debugging macro programs, adding error checking, and building a library of utility macro programs.

Learning SAS by Example Ron Cody 2018-07-03 Learn to program SAS by example! Learning SAS by Example, A Programmer's Guide, Second Edition, teaches SAS programming from very basic concepts to 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 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 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.

SAS Macro Programming Made Easy, Third Edition Michele M. Burlew 2014-06-01 This book provides beginners with a thorough foundation in SAS macro programming. The macro facility is a popular part of SAS. Macro programming is a required skill for many SAS programming jobs, and the SAS Advanced Programming Certification Exam tests macro processing concepts. Whether you're looking to become certified, land a job, or increase your skills, you'll benefit from SAS Macro Programming Made Easy, Third Edition. By following Michele Burlew's examples and step-by-step instructions, you'll be able to rapidly perform repetitive programming tasks, to pass information between programming steps more easily, and to make your programming easier to read. Updated for SAS 9.4, this book teaches you the elements of the macro facility

(macro variables, macro programs, macro language), how to write a macro program, techniques for macro programming, tips on using the macro facility, how the macro facility fits into SAS, and about the interfaces between the macro facility and other components of SAS. Beginning macro programmers will learn to write SAS macro programs quickly and efficiently. More experienced programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills. Ultimately, any user interested in automating their programs—including analysts, programmers, and report writers—will find Michele Burlew's book an excellent tutorial. This book is part of the SAS Press program.

PROC SQL Kirk Paul Lafler 2019-03-20 PROC SQL: Beyond the Basics Using SAS®, Third Edition, is a step-by-step, example-driven guide that helps readers master the language of PROC SQL. Packed with analysis and examples illustrating an assortment of PROC SQL options, statements, and clauses, this book not only covers all the basics, but it also offers extensive guidance on complex topics such as set operators and correlated subqueries. Programmers at all levels will appreciate Kirk Lafler's easy-to-follow examples, clear explanations, and handy tips to extend their knowledge of PROC SQL. This third edition explores new and powerful features in SAS® 9.4, including topics such as: IFC and IFN functions nearest neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data-driven programming. Delving into the workings of PROC SQL with greater analysis and discussion, PROC SQL: Beyond the Basics Using SAS®, Third Edition, explores this powerful database language using discussion and numerous real-world examples.

SAS 9 Study Guide Ali Hezaveh 2011-01-25 A thorough and self-contained treatment for SAS® users preparing for the Base Programming Certification Exam for SAS®9—complete with explanations, tips, and practice exam questions SAS® 9 Study Guide is designed to help users of SAS® 9 become familiar with the fine points of the software as well as develop solid study strategies that will shorten preparation time and ensure successful exam results. The following five study topics are addressed with a focused chapter devoted to each: accessing data; creating data structures; managing data; generating reports; and handling errors. SAS® 9 Study Guide provides both a conceptual and practical approach to each of these areas with detailed explanations followed by examples. Each chapter presents concepts, processes, and applications in a clear, step-by-step format along with detailed explanations and examples. Individual chapters also contain: A Two-Minute Drill that provides a checklist of key points for review An Assessment Exam, which challenges readers to provide short answers detailing the chapter's coverage of SAS® 9 A Practice Exam, which reinforces content and familiarizes readers with the structure of the actual Base Programming Certification Exam Written by a practicing SAS® Certified Professional, this book is an intensive, but accessible, review for preparing for the Base Programming Certification Exam for SAS® 9 and can also serve as a practical reference tool for established certified professionals who would like to further their knowledge of SAS® 9.

The Data Detective's Toolkit Kim Chantala 2020-12-15 Reduce the cost and time of cleaning, managing, and preparing research data while also improving data quality! Have you ever wished there was an easy way to reduce your workload and improve the quality of your data? *The Data Detective's Toolkit: Cutting-Edge Techniques and SAS Macros to Clean, Prepare, and Manage Data* will help you automate many of the labor-intensive tasks needed to turn raw data into high-quality, analysis-ready data. You will find the right tools and techniques in this book to reduce the amount of time needed to clean, edit, validate, and document your data. These tools include SAS macros as well as ingenious ways of using SAS procedures and functions. The innovative logic built into the book's macro programs enables you to monitor the quality of your data using information from the formats and labels created for the variables in your data set. The book explains how to harmonize data sets that need to be combined and automate data cleaning tasks to detect errors in data including out-of-range values, inconsistent flow through skip paths, missing data, no variation in values for a variable, and duplicates. By the end of this book, you will be able to automatically produce codebooks, crosswalks, and data catalogs.

Statistical Graphics Procedures by Example Sanjay Matange 2014-11-29 Sanjay Matange and Dan Heath's *Statistical Graphics Procedures by Example: Effective Graphs Using SAS* shows the innumerable capabilities of SAS Statistical Graphics (SG) procedures. The authors begin with a general discussion of the principles of effective graphics, ODS Graphics, and the SG procedures. They then move on to show examples of the procedures' many features. The book is designed so that you can easily flip through it, find the graph you need, and view the code right next to the example. Among the topics included are how to combine plot statements to create custom graphs; customizing graph axes, legends, and insets; advanced features, such as annotation and attribute maps; tips and tricks for creating the optimal graph for the intended usage; real-world examples from the health and life sciences domain; and ODS styles. The procedures in *Statistical Graphics Procedures by Example* are specifically designed for the creation of analytical graphs. That makes this book a must-read for analysts and statisticians in the health care, clinical trials, financial, and insurance industries. However, you will find that the examples here apply to all fields. This book is part of the SAS Press program.

SAS Programming for R Users Jordan Bakerman 2019-12-09 *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 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 chapter so that you can test your knowledge and practice your programming skills.

SAS for Forecasting Time Series John C. Brocklebank 2003-07-14 Easy-to-read and comprehensive, this book shows how the SAS System performs multivariate time series analysis and features the advanced SAS procedures STATSPACE, ARIMA, and SPECTRA. The interrelationship of SAS/ETS procedures is demonstrated with an accompanying discussion of how the choice of a procedure depends on the data to be analysed and the results desired. Other topics covered include detecting sinusoidal components in time series models and performing bivariate cross-spectral analysis and comparing the results with the standard transfer function methodology. The authors' unique approach to integrating students in a variety of disciplines and industries. Emphasis is on correct interpretation of output to draw meaningful conclusions. The volume, co-published by SAS and JWS, features both theory and practicality, and accompanies a soon-to-be extensive library of SAS hands-on manuals in a multitude of statistical areas. The book can be used with a number of hardware-specific computing machines including CMS, Mac, MVS, Open VMS Alpha, Open VMS VAX, OS/390, OS/2, UNIX, and Windows.

Professional SAS Programming Shortcuts Rick Aster 2012-08-21 The most useful SAS programming techniques, organized by subject and illustrated with more than 1,000 short examples. Covers data handling, options, procedures, sorting, Internet and desktop file formats, table lookup, and much more. This edition is updated with new features of SAS 9.3.

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.

Carpenter's Complete Guide to the SAS Macro Language, Third Edition Art Carpenter 2016-08-25 Providing both a compendium of reusable and adaptable code, and opportunities for deepening your understanding and growing as a SAS programmer, this pragmatic, example-driven reference 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. --

Debugging SAS Programs Michele M. Burlew 2001 This "go-to" guide helps users solve the most common problems that occur in the SAS DATA step, in Base SAS PROCs, and in SAS macro code. The author covers a broad range of programming problems, including how to read the SAS log; how to interpret error, note, and warning messages; and how to solve problems that might occur in the DATA step, Base SAS PROC steps, and SAS macros.

Capitalist Nigger Chika Onyeani 2012-03-27 Capitalist Nigger is an explosive and jarring indictment of the black race. The book asserts that the Negroid race, as naturally endowed as any other, is culpably a non-productive race, a consumer race that depends on other communities for its culture, its language, its feeding and its clothing. Despite enormous natural resources, blacks are economic slaves because they lack the 'devil-may-care' attitude and the 'killer instinct' of the Caucasian, as well as the spider web mentality of the Asian. A Capitalist Nigger must embody ruthlessness in pursuit of excellence in his drive towards achieving the goal of becoming an economic warrior. In putting forward the idea of the Capitalist Nigger, Chika Onyeani charts a road to success whereby black economic warriors employ the 'Spider Web Doctrine' – discipline, self-reliance, ruthlessness – to escape from their victim mentality. Born in Nigeria, Chika Onyeani is a journalist, editor and former diplomat.

Output Delivery System Lauren E. Haworth 2001 Output Delivery System: The Basics is an example-driven book that is geared toward beginner and intermediate ODS users and that demonstrates the many wonders of ODS. Beginning with basic syntax and progressing to more complex techniques and custom styles, you will learn to take basic SAS output and transform it into a beautiful integrated Web page, a word-processor-friendly RTF file, high-resolution printed output, and a bookmarked PDF file. You can also create a data set from the results of most procedures, allowing you to build your own custom reports. Each of the wide array of ODS techniques is presented in an easy-to-use, two-page layout with the text and code on one page and the resulting output on the facing page.

Statistical Programming in SAS A. John Bailer 2020-01-28 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 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 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 both base and certification exams.

PROC SQL by Example Howard Schreier 2014-11-07 In PROC SQL by Example: Using SQL within SAS, author Howard Schreier illustrates the use of PROC SQL in the

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context of the SAS DATA step and other SAS procedures (such as SORT, FREQ, MEANS, SUMMARY, APPEND, DATASETS, and TRANSPOSE) whose functionality overlaps and complements that of SQL. Using a side-by-side approach, this concise reference guide includes many extensively explained examples showing equivalent DATA step and SQL code, enabling SAS users to take advantage of existing SAS skills and knowledge while learning about SQL. Discussions cover the differences between SQL and the DATA step as well as situations where SQL and the DATA step are used together to benefit from the strengths of each. Topics addressed include working with joins and merges; using subqueries; understanding set operators; using the Macro Facility with PROC SQL; maintaining tables; working with views; using PROC SQL as a report generator; and more. This text is ideal for SAS programmers seeking to add PROC SQL to their SAS toolkits as well as SQL programmers striving to better integrate the SAS DATA step and SQL. This book is part of the SAS Press program.

Beginning SAS Programming Yufeng Guo 2015-06-04 My support site is saszero2hero.com. Despite the popularity of R and Python, many large private companies in insurance, banking, and pharmaceutical industries, to name a few, still predominantly use SAS. If you plan to work or are already working in one of the companies that use SAS for data manipulation and analysis, you might want to learn SAS. However, for many, SAS is much harder to learn than Visual Basic, Java, and Python. The good news is that because SAS is difficult to learn there's a shortage of SAS programming talents in many places across the globe. Learning SAS can open new career opportunities for you, even if you already know R and Python. If you are a complete beginner wanting to learn SAS and boost your career in the big data field, this book is for you. In this book, I'll teach you SAS programming from the ground up starting from a Hello World program. My goal is to transform you from knowing nothing about SAS into an advanced SAS programmer. Follow this book and learn SAS today.

SAS Certified Specialist Prep Guide SAS Institute 2019-02-11 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 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 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

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SAS Guide to Report Writing Michele M. Burlew 2005 Using a wealth of easy-to-follow examples, this timesaving book demonstrates the many different styles of reports that are available and the SAS tools used to generate them. Examples enable more experienced programmers to quickly grasp new techniques, while margin notes and additional discussions provide novice users with the details they need for effective learning.

SAS Programming for Enterprise Guide Users, Second Edition Neil Constable 2015-04-17 New and updated for SAS Enterprise Guide 4.2, this pragmatic, example-driven book demonstrates how programmers can use SAS code to enhance the capabilities of SAS Enterprise Guide.

SAS Macro Programming Made Easy, Third Edition, 3rd Edition Michele Burlew 2014 This book provides beginners with a thorough foundation in SAS macro programming. The macro facility is a popular part of SAS. Macro programming is a required skill for many SAS programming jobs, and the SAS Advanced Programming Certification Exam tests macro processing concepts. Whether you're looking to become certified, land a job, or increase your skills, you'll benefit from SAS Macro Programming Made Easy, Third Edition. By following Michele Burlew's examples and step-by-step instructions, you'll be able to rapidly perform repetitive programming tasks, to pass information between programming steps more easily, and to make your programming easier to read. Updated for SAS 9.4, this book teaches you the elements of the macro facility (macro variables, macro programs, macro language), how to write a macro program, techniques for macro programming, tips on using the macro facility, how the macro facility fits into SAS, and about the interfaces between the macro facility and other components of SAS. Beginning macro programmers will learn to write SAS macro programs quickly and efficiently. More experienced programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills. Ultimately, any user interested in automating their programs--including analysts, programmers, and report writers--will find Michele Burlew's book an excellent tutorial. This book is part of the SAS Press program.

SAS Certified Professional Prep Guide SAS Institute 2019-10-18 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 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 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 Procedures Using Advanced Functions Practice Programming Scenarios (Workbook)

SAS Programming in the Pharmaceutical Industry, Second Edition Jack Shostak 2014-03-01 This comprehensive resource provides on-the-job training for statistical programmers who use SAS in the pharmaceutical industry This one-stop resource offers a complete review of what entry- to intermediate-level statistical programmers need to know in order to help with the analysis and reporting of clinical trial data in the pharmaceutical industry. SAS Programming in the Pharmaceutical Industry, Second Edition begins with an introduction to the pharmaceutical industry and the work environment of a statistical programmer. Then it gives a chronological explanation of what you need to know to do the job. It includes information on importing and massaging data into analysis data sets, producing clinical trial output, and exporting data. This edition has been updated for SAS 9.4, and it features new graphics as well as all new examples using CDISC SDTM or ADaM model data structures. Whether you're a novice seeking an introduction to SAS programming in the pharmaceutical industry or a junior-level programmer exploring new approaches to problem solving, this real-world reference guide offers a wealth of practical suggestions to help you sharpen your skills. This book is part of the SAS Press program.

SAS Certification Prep Guide Sas Institute 2017-12-22 Prepare for the SAS Base Programming for SAS 9 exam with the official guide by the SAS Global Certification Program. New and experienced SAS users who want to prepare for the SAS Base Programming for SAS 9 exam will find this guide to be an invaluable, convenient, and comprehensive resource that covers all of the objectives tested on the exam. Now in its fourth edition, the guide has been extensively updated, and revised to streamline explanations. Major topics include importing and exporting raw data files, creating and modifying SAS data sets, and identifying and correcting data syntax and programming logic errors. The chapter quizzes have been thoroughly updated and full solutions are included at the back of the book. In addition, links are provided to the exam objectives, practice exams, and other helpful resources, such as the updated Base SAS glossary and an expanded collection of practice data sets.

The Little SAS Book Lora D. Delwiche 2002

SAS Macro Programming Made Easy Michele M. Burlew 2014 "The macro facility is a popular part of SAS. Macro programming is a required skill for many SAS programming jobs, and the SAS Advanced Programming Certification Exam tests macro processing concepts. Whether you're looking to become certified, land a job, or increase your skills, you'll benefit from SAS Macro Programming Made Easy, Third Edition. By following Michele Burlew's examples and step-by-step

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instructions, you'll be able to rapidly perform repetitive programming tasks, to pass information between programming steps more easily, and to make your programming easier to read. Updated for SAS 9.4, this book teaches you the elements of the macro facility (macro variables, macro programs, macro language), how to write a macro program, techniques for macro programming, tips on using the macro facility, how the macro facility fits into SAS, and about the interfaces between the macro facility and other components of SAS. Beginning macro programmers will learn to write SAS macro programs quickly and efficiently. More experienced programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills. Ultimately, any user interested in automating their programs including analysts, programmers, and report writers' will find Michele Burlew's book an excellent tutorial." --

SAS Programming in the Pharmaceutical Industry Jack Shostak 2005 This real-world reference for clinical trial SAS programming is packed with solutions that can be applied day-to-day problems. Organized to reflect the statistical programmers workflow, this user-friendly text begins with an introduction to the working environment, then presents chapters on importing and massaging data into analysis data sets, producing clinical trial output, and exporting data.