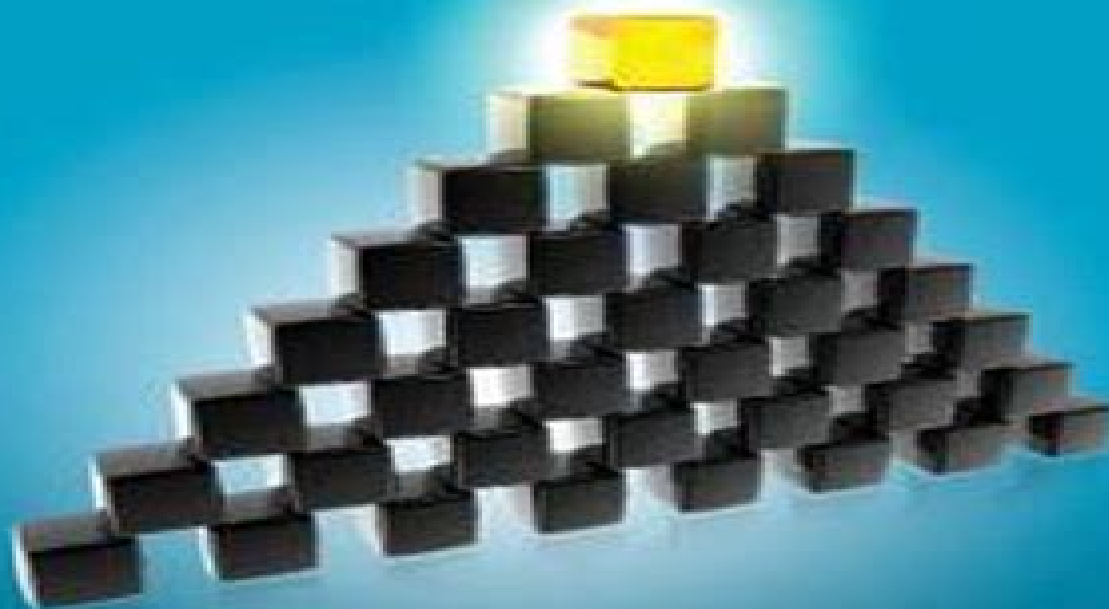


# Introduction to Regular Expressions in SAS®



K. Matthew Windham

# Introduction To Regular Expressions In Sas

**JL Elias**



## **Introduction To Regular Expressions In Sas:**

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**Introduction to Regular Expressions in SAS** K. Matthew Windham, 2014-12-01 Unstructured data is the most voluminous form of data in the world and analysts rarely receive it in perfect condition for processing In other words you often need to clean transform and enhance your source data before you can use and derive value from it especially where textual data is concerned In Introduction to Regular Expressions in SAS SAS programmers of virtually all skill levels will learn how to harness the power of Regular Expressions within the SAS programming language for a wide array of everyday applications of unstructured data analyses This book uses a practical examples based approach to walk you through using Regular Expressions for unstructured data processing and provides you with the foundational information and examples to perform advanced applications From fuzzy matching to data extraction this book is a critical reference for any advanced analytics practitioner who needs to leverage SAS software to effectively process their data This book is part of the SAS Press Program

*SAS Functions by Example, Second Edition* Ron Cody, EdD, 2010-03-11 Fully updated for SAS 9.2 Ron Cody's *SAS Functions by Example Second Edition* is a must have reference for anyone who programs in Base SAS With the addition of functions new to SAS 9.2 this comprehensive reference manual now includes more than 200 functions including new character date and time distance probability sort and special functions This new edition also contains more examples for existing functions and more details concerning optional arguments Like the first edition the new edition also includes a list of SAS programs an alphabetic list of all the functions in the book and a comprehensive index of functions and tasks Beginning and experienced SAS users will benefit from this useful reference guide to SAS functions This book is part of the SAS Press program

SAS Text Analytics for Business Applications Teresa Jade, Biljana Belamaric-Wilsey, Michael Wallis, 2019-03-29 Extract actionable insights from text and unstructured data Information extraction is the task of automatically extracting structured information from unstructured or semi structured text *SAS Text Analytics for Business Applications Concept Rules for Information Extraction Models* focuses on this key element of natural language processing NLP and provides real world

guidance on the effective application of text analytics Using scenarios and data based on business cases across many different domains and industries the book includes many helpful tips and best practices from SAS text analytics experts to ensure fast valuable insight from your textual data Written for a broad audience of beginning intermediate and advanced users of SAS text analytics products including SAS Visual Text Analytics SAS Contextual Analysis and SAS Enterprise Content Categorization this book provides a solid technical reference You will learn the SAS information extraction toolkit broaden your knowledge of rule based methods and answer new business questions As your practical experience grows this book will serve as a reference to deepen your expertise

**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

**Cody's Data Cleaning Techniques Using SAS, Third Edition** Ron Cody, 2017-03-15 Written in Ron Cody's signature informal tutorial style this book develops and demonstrates data cleaning programs and macros that you can use as written or modify which will make your job of data cleaning easier faster and more efficient

**Text Mining and Analysis** Dr. Goutam Chakraborty, Murali Pagolu, Satish Garla, 2014-11-22 Big data It's unstructured it's coming at you fast and there's lots of it In fact the majority of big data is text oriented thanks to the proliferation of online sources such as blogs emails and social media However having big data means little if you can't leverage it with analytics Now you can explore the large volumes of unstructured text data that your organization has collected with Text Mining and Analysis Practical Methods Examples and Case Studies Using SAS This hands on guide to text analytics using SAS provides detailed step by step instructions and explanations on how to mine your

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*Unstructured Data Analysis* Matthew Windham,2018-09-14 Unstructured data is the most voluminous form of data in the world and several elements are critical for any advanced analytics practitioner leveraging SAS software to effectively address the challenge of deriving value from that data This book covers the five critical elements of entity extraction unstructured data entity resolution entity network mapping and analysis and entity management By following examples of how to apply processing to unstructured data readers will derive tremendous long term value from this book as they enhance the value they realize from SAS products

**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

Introduction to Static Analysis Xavier Rival,Kwangkeun Yi,2020-02-11 A self contained introduction to abstract interpretation based static analysis an essential resource for students developers and users Static program analysis or static analysis aims to discover semantic properties of programs without running them It plays an important role in all phases of development including verification of specifications and programs the synthesis of optimized code and the refactoring and maintenance of software applications This book offers a self contained introduction to static analysis covering the basics of both theoretical foundations and practical considerations in the use of static analysis tools By offering a quick and comprehensive introduction for nonspecialists the book fills a notable gap in the literature which until now has consisted largely of scientific articles on advanced topics The

text covers the mathematical foundations of static analysis including semantics semantic abstraction and computation of program invariants more advanced notions and techniques including techniques for enhancing the cost accuracy balance of analysis and abstractions for advanced programming features and answering a wide range of semantic questions and techniques for implementing and using static analysis tools It begins with background information and an intuitive and informal introduction to the main static analysis principles and techniques It then formalizes the scientific foundations of program analysis techniques considers practical aspects of implementation and presents more advanced applications The book can be used as a textbook in advanced undergraduate and graduate courses in static analysis and program verification and as a reference for users developers and experts

**INTRODUCTION TO THEORY OF AUTOMATA, FORMAL LANGUAGES, AND COMPUTATION** GHOSH, DEBIDAS, 2013-08-21 The Theory of Computation or Automata and Formal Languages assumes significance as it has a wide range of applications in compiler design robotics Artificial Intelligence AI and knowledge engineering This compact and well organized book provides a clear analysis of the subject with its emphasis on concepts which are reinforced with a large number of worked out examples The book begins with an overview of mathematical preliminaries The initial chapters discuss in detail about the basic concepts of formal languages and automata the finite automata regular languages and regular expressions and properties of regular languages The text then goes on to give a detailed description of context free languages pushdown automata and computability of Turing machine with its complexity and recursive features The book concludes by giving clear insights into the theory of computability and computational complexity This text is primarily designed for undergraduate BE B Tech students of Computer Science and Engineering CSE and Information Technology IT postgraduate students M Sc of Computer Science and Master of Computer Applications MCA Salient Features One complete chapter devoted to a discussion on undecidable problems Numerous worked out examples given to illustrate the concepts Exercises at the end of each chapter to drill the students in self study Sufficient theories with proofs

**RegEx 2** Mario Canton, 2018-01-06 Con l'esperienza fatta con la prima edizione si decise di integrare il testo con una guida più esemplificativa in modo da poter accostare le espressioni regolari con un taglio più didattico Si spera di aver ottenuto una maggiore semplicità di esposizione che renda meno ostico l'avvicinamento alle regex In questa seconda edizione si sono anche prese in esame le varianti flavours più diffuse di motori per espressioni regolari come quelle di editor EditPad Pro e Lite Emacs MS Word Notepad Libre Apache Open Office Writer Vim fogli di calcolo Google Documenti Fogli database MySQL Oracle PostgreSQL SQLite app e shell Apache HTTPd Awk Find Grep Nginx PowerGrep PowerShell Sed ShellScript o Bash linguaggi di programmazione C C++ Delphi HTML5 Java con Groovy JavaScript ActionScript con XRegExp NET Perl PHP Python R Ruby Tcl VBScript Visual Basic XML XQuery e XPath Xojo o Real Basic librerie vxRegex POSIX Base GNU Reggex PCRE e tester text2regex VisualRegExp Regex Coach RegexPal Regex101 Si presume che anche se l'applicazione che si utilizza non esplicitamente menzionata probabilmente usi una variante che viene trattata sotto un'altra

denominazione In genere la maggior parte delle applicazioni sviluppate usano una delle varianti che sono state prese in esame in quanto la maggior parte delle applicazioni vengono sviluppate utilizzando un ambiente di programmazione o delle librerie di espressioni regolari tra quelle considerate in questo ebook Si infine integrato la parte riepilogativa con ulteriori tabulati e quadri sinottici dei comandi e degli operatori anche relativi alle diverse varianti e aggiunto una breve appendice tecnica sugli automi finiti l'algebra e i linguaggi regolari che stanno alla base della logica delle regex stata riorganizzata la bibliografia per argomenti trattazioni generali Perl e regex applicazioni specifiche guide online e testi sulle correlazioni con gli automi a stati finiti RegEx per autori, scrittori e redattori. Guida operativa all'utilizzo delle espressioni regolari nel trattamento di testi digitali. Mario Canton, 2016-10-07 L'utilizzo delle espressioni regolari non molto diffuso tra autori scrittori e redattori mentre programmatori sviluppatori di codice e realizzatori di e-book ne fanno un frequente e soddisfacente impiego Questa succinta guida all'uso delle regex o regexp acronimi di origine inglese da regular expressions o più semplicemente RE stato pensato proprio per chi si occupa di scrivere o revisionare testi Molti editor e wordprocessor ormai incorporano la modalità regex per effettuare ricerche estrazioni e sostituzioni di testo Sulle espressioni regolari esiste molto poco nella letteratura in lingua italiana ben altra mole di documentazione invece a disposizione se si conosce un po' l'inglese Chi vorrà approfondire potrà trovare nella bibliografia alla fine di questo testo ottimi suggerimenti per le opere a stampa di cui il più delle volte i loro autori forniscono anche una versione digitale se si preferisce questa modalità di lettura Cosa si può fare con le regex Per rispondere basta considerare che la ricerca di stringhe sequenze di caratteri da parte di un computer molto veloce ma estremamente rigida Con le espressioni regolari diventa invece possibile trovare se esistono nel testo determinate sequenze localizzare stringhe di caratteri che combaciano con le sequenze e sostituirle con qualcosa di diverso estrarre le stringhe che combaciano con le sequenze per poterle riutilizzare diversamente Per non annoiare troppo il lettore l'esposizione sarà legata per quanto possibile ad esempi pratici con i quali saranno illustrate di volta in volta le varie funzionalità delle regex Ovviamente gli esempi saranno quelli che normalmente si trovano di fronte autori scrittori e redattori

**A Gentle Introduction to Effective Computing in Quantitative Research** Harry J. Paarsch, Konstantin Golyaev, 2016-05-06 A practical guide to using modern software effectively in quantitative research in the social and natural sciences This book offers a practical guide to the computational methods at the heart of most modern quantitative research It will be essential reading for research assistants needing hands-on experience students entering PhD programs in business economics and other social or natural sciences and those seeking quantitative jobs in industry No background in computer science is assumed a learner need only have a computer with access to the Internet Using the example as its principal pedagogical device the book offers tried and true prototypes that illustrate many important computational tasks required in quantitative research The best way to use the book is to read it at the computer keyboard and learn by doing The book begins by introducing basic skills how to use the operating system how to organize data and how to complete simple programming

tasks For its demonstrations the book uses a UNIX based operating system and a set of free software tools the scripting language Python for programming tasks the database management system SQLite and the freely available R for statistical computing and graphics The book goes on to describe particular tasks analyzing data implementing commonly used numerical and simulation methods and creating extensions to Python to reduce cycle time Finally the book describes the use of LaTeX a document markup language and preparation system

**RegEx3** Mario Canton,2018-06-20 Con l'esperienza fatta con la prima e la seconda edizione si decise di integrare il testo con una serie di esercitazioni pratiche assistite ricche di esempi applicativi Si pensò come si espone dettagliatamente nella parte che chiarisce le motivazioni dell'eBook che quando tutto ciò che si vuole fare ottenere la convalida dei propri file in HTML o semplicemente eseguire velocemente operazioni di sostituzione su un testo analizzato se si ha bisogno di raggiungere velocemente uno scopo usando le espressioni regolari ci si troverà divisi tra avere troppo poche informazioni per essere produttivi e avere troppe informazioni per sapere da dove cominciare Perci si decise di integrare l'esposizione con una nutrita serie di esercitazioni guidate che espongono con criterio incrementale le modalità di utilizzo dei vari operatori chiarendo con esempi pratici e visivamente immediati le modalità di funzionamento delle regex Si spera che lo sforzo possa aver raggiunto lo scopo

Introduction to Data Technologies Paul Murrell,2009-02-23 Providing key information on how to work with research data Introduction to Data Technologies presents ideas and techniques for performing critical behind the scenes tasks that take up so much time and effort yet typically receive little attention in formal education With a focus on computational tools the book shows readers how to improve their

Introduction to Computer Theory Daniel I. A. Cohen,1996-10-25 This text strikes a good balance between rigor and an intuitive approach to computer theory Covers all the topics needed by computer scientists with a sometimes humorous approach that reviewers found refreshing The goal of the book is to provide a firm understanding of the principles and the big picture of where computer theory fits into the field

Computational Methods in Systems Biology Jérôme Feret,Heinz Koepl,2017-09-18 This book constitutes the refereed proceedings of the 15th International Conference on Computational Methods in Systems Biology CMSB 2017 held in Darmstadt Germany in September 2017 The 15 full papers 4 tool papers and 4 posters presented together with 1 invited talk were carefully reviewed and selected from 41 regular paper submissions Topics of interest include formalisms for modeling biological processes models and their biological applications frameworks for model verification validation analysis and simulation of biological systems high performance computational systems biology and parallel implementations model inference from experimental data model integration from biological databases multi scale modeling and analysis methods and computational approaches for synthetic biology

**Theory of Automata and Formal Languages** Anand Sharma,2006

**SAS Language Reference** SAS Institute,1999 Here's your one source for reference entries for individual elements of the SAS language in an alphabetized encyclopedia format This title is intended for users with previous experience with SAS or who have at least an intermediate level of expertise with another



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