

MATHEMATICS
TO GENERIC
PROGRAMMING

# **From Mathematics To Generic Programming**

**Mircea Pitici** 

#### **From Mathematics To Generic Programming:**

From Mathematics to Generic Programming Alexander A. Stepanov, Daniel E. Rose, 2014-11-13 In this substantive yet accessible book pioneering software designer Alexander Stepanov and his colleague Daniel Rose illuminate the principles of generic programming and the mathematical concept of abstraction on which it is based helping you write code that is both simpler and more powerful If you re a reasonably proficient programmer who can think logically you have all the background you ll need Stepanov and Rose introduce the relevant abstract algebra and number theory with exceptional clarity They carefully explain the problems mathematicians first needed to solve and then show how these mathematical solutions translate to generic programming and the creation of more effective and elegant code To demonstrate the crucial role these mathematical principles play in many modern applications the authors show how to use these results and generalized algorithms to implement a real world public key cryptosystem. As you read this book you ll master the thought processes necessary for effective programming and learn how to generalize narrowly conceived algorithms to widen their usefulness without losing efficiency You ll also gain deep insight into the value of mathematics to programming insight that will prove invaluable no matter what programming languages and paradigms you use You will learn about How to generalize a four thousand year old algorithm demonstrating indispensable lessons about clarity and efficiency Ancient paradoxes beautiful theorems and the productive tension between continuous and discrete A simple algorithm for finding greatest common divisor GCD and modern abstractions that build on it Powerful mathematical approaches to abstraction How abstract algebra provides the idea at the heart of generic programming Axioms proofs theories and models using mathematical techniques to organize knowledge about your algorithms and data structures Surprising subtleties of simple programming tasks and what you can learn from them How practical implementations can exploit theoretical knowledge From Mathematics to Generic Programming Alexander A. Stepanov, Daniel E. Rose, 2014 This book is a great introduction to the core principles of generic programming for the experienced programmer The authors work through examples showing how to analyze the requirements of an algorithm and make it as general as possible The book includes several programming laws of particular interest to those building software components The authors show how programmers can become more effective by learning about the idea of abstraction and the math it relies on In an engaging and accessible fashion they describe how these mathematical results were first discovered and are surprisingly useful in programming Programming with Types Vlad Riscutia, 2019-10-31 Summary Programming with Types teaches you to design safe resilient correct software that s easy to maintain and understand by taking advantage of the power of strong type systems Designed to provide practical instantly useful techniques for working developers this clearly written tutorial introduces you to using type systems to support everyday programming tasks About the technology Common bugs often result from mismatched data types By precisely naming and controlling which data are allowable in a calculation a strong type system can eliminate whole classes of errors

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20 revised full papers were carefully reviewed for inclusion in the book As the first book entirely devoted to the new paradigm of generic programming this collection offers topical sections on foundations and methodology comparisons Generic Programming Mehdi Jazaveri, Rüdiger G.K. programming methodology language design and applications Loos, David R. Musser, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the International Seminar on Generic Programming held in Dagstuhl Castle Germany in April May 1998 The 20 revised full papers were carefully reviewed for inclusion in the book As the first book entirely devoted to the new paradigm of generic programming this collection offers topical sections on foundations and methodology comparisons programming methodology language design and applications Mathematics in Programming Xinyu Liu, 2024-07-10 The book presents the mathematical view and tools of computer programming with broad and friendly context It explains the basic concepts such as recursion computation model types data and etc The book serves as an introductory and reference guide to the engineers students researchers and professionals who are interested in functional programming type system and computer programming languages The book covers seven topics Firstly it lays out the number system based on Peano Axioms and demonstrates the isomorphic computer data structures Then it introduces Lambda calculus as a computing model and recursion an important programming structure with the Y combinator It next presents the basic abstract algebra including group and fields and provides a friendly introduction to Galois theory After that it uses category theory as a tool to explain several concepts in computer programming including the type system polymorphism null handler and recursive data types then followed by an application of program optimization In the last two chapters the author shows how to program with the concept of infinity through stream and lazy evaluation and then explains the na ve set theory and transfinite numbers from which the logic paradox arises Finally it introduces four historical views of mathematical foundation as well as G del s incompleteness theorems developed in 1930s and how they define the boundaries of computer programming Additionally the book provides biographies stories and anecdotes of 25 mathematicians along with over 130 exercises and their corresponding answers

transformation programming language semantics program logics The Best Writing on Mathematics 2015 Mircea Pitici, 2016-01-12 The year's finest writing on mathematics from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates. Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it s worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year s most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed Central European Functional Programming School Viktória Zsók, Zoltán Porkoláb, Zoltán Horváth, 2019-08-13 This volume presents the revised lecture notes of selected talks given at the 6th Central European Functional Programming School CEFP 2015 held in July 2015 in Budapest Hungary The 10 revised full papers presented were carefully reviewed and selected The lectures covered a wide range of functional programming and C programming Mathematics of Program Construction Ekaterina Komendantskaya, 2022-09-21 This book constitutes the refereed subjects proceedings of the 14th International Conference on Mathematics of Program Construction MPC 2022 held in Tbilisi Georgia in September 2022 The 9 revised full papers presented together with three invited papers were carefully reviewed and selected from 14 submissions The papers deal with mathematical principles and techniques for constructing computer Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Marcin Paprzycki, Jerzy programs Wasniewski, 2003-08-01 This book constitutes the thoroughly refereed post proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics PPAM 2002 held in Naleczow Poland in September 2001 The 101 papers presented were carefully reviewed and improved during two rounds of reviewing and revision The book offers topical sections on distributed and grid architectures scheduling and load balancing performance analysis and prediction parallel non numerical algorithms parallel programming tools and environments parallel numerical algorithms applications and evolutionary computing and neural networks Mathematics of Program Construction Ralf Hinze, Janis Voigtländer, 2015-06-09 This book constitutes the refereed proceedings of the 12th International Conference on Mathematics

of Program Construction MPC 2015 held in K nigswinter Germany in June July 2015 The 15 revised full papers presented together with two invited talks were carefully reviewed and selected from 20 submissions. The papers are about mathematical methods and tools put to use in program construction They range from algorithmics to support for program construction in programming languages and systems Some typical areas are type systems program analysis and transformation programming language semantics security and program logics C++ Cookbook D. Ryan Stephens, 2006 Solutions and Mathematics of Program Construction Jeremy Gibbons, Pablo examples for C programmers Cover Nogueira, 2012-06-21 This book constitutes the refereed proceedings of the 11th International Conference on Mathematics of Program Construction MPC 2012 held in Madrid Spain in June 2012 The 13 revised full papers presented together with three invited talks were carefully reviewed and selected from 27 submissions. The papers are organized in topical sections on security and information flow synchronous and real time systems algorithms and games program calculi tool support algebras and datatypes and categorical functional programming **Experimental Algorithms** Andrew V. Goldberg, Alexander S. Kulikov, 2016-05-31 This book constitutes the refereed proceedings of the 15th International Symposium on Experimental Algorithms SEA 2016 held in St Petersburg Russia in June 2016 The 25 revised full papers presented were carefully reviewed and selected from 54 submissions. The main theme of the symposium is the role of experimentation and of algorithm engineering techniques in the design and evaluation of algorithms and data structures SEA covers a wide range of topics in experimental algorithmics bringing together researchers from algorithm engineering mathematical programming and combinatorial optimization communities Fundamental Proof Methods in Computer Science Konstantine Arkoudas, David Musser, 2017-04-28 A textbook that teaches students to read and write proofs using Athena Proof is the primary vehicle for knowledge generation in mathematics In computer science proof has found an additional use verifying that a particular system or component or algorithm has certain desirable properties This book teaches students how to read and write proofs using Athena a freely downloadable computer language Athena proofs are machine checkable and written in an intuitive natural deduction style The book contains more than 300 exercises most with full solutions By putting proofs into practice it demonstrates the fundamental role of logic and proof in computer science as no other existing text does Guided by examples and exercises students are quickly immersed in the most useful high level proof methods including equational reasoning several forms of induction case analysis proof by contradiction and abstraction specialization The book includes auxiliary material on SAT and SMT solving automated theorem proving and logic programming The book can be used by upper undergraduate or graduate computer science students with a basic level of programming and mathematical experience Professional programmers practitioners of formal methods and researchers in logic related branches of computer science will find it a valuable reference **Elements of Programming** Alexander Stepanov, Paul McJones, 2019-06-17 Elements of Programming provides a different understanding of programming than is

presented elsewhere Its major premise is that practical programming like other areas of science and engineering must be based on a solid mathematical foundation This book shows that algorithms implemented in a real programming language such as C can operate in the most general mathematical setting For example the fast exponentiation algorithm is defined to work with any associative operation Using abstract algorithms leads to efficient reliable secure and economical software

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