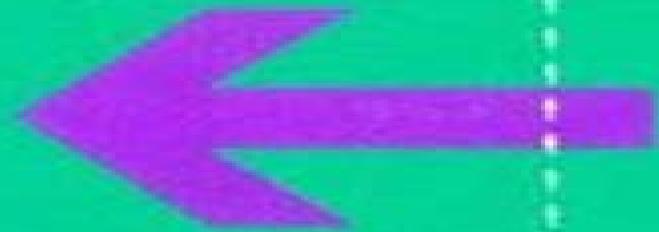# Basic Category Theory for Computer Scientists

Benjamin C. Pierce

# Basic Category Theory For Computer Scientists

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**Basic Category Theory For Computer Scientists:**

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   *Category Theory and Computer Science* ,1995   *Category Theory and Computer Science* David H. Pitt,Axel Poigne,David E. Rydeheard,1987-10-21   **A Taste of Category Theory for Computer Scientists** Benjamin C. Pierce,Carnegie-Mellon University. School of Computer Science,1990 Abstract Category theory is a branch of pure mathematics that more and more frequently touches the daily work of computer scientists especially those with an interest in programming languages or formal specifications This survey is an introduction to the introductions to category theory a brief answer to the questions What is category theory What are its basic concepts What are computer scientists using it for and Where can I learn more The first section introduces the most common category theoretic terms and idioms assuming as little specific mathematical background as possible the second section presents four case studies from the recent research literature applying category theory to the semantics of computation A reading list in the third section suggests pathways into the existing literature including textbooks standard reference works and selected research papers   People & Ideas in Theoretical Computer Science Cristian Calude,1999 This book collects personal accounts and reflections of fourteen eminent scientists who have dedicated themselves to the craft of theoretical computer science Contributions focus on the authors specific interests experiences and reminiscences The emerging picture which is just one among many should be a catalyst for

further developments and continuations    *Categories, Types, and Structures* Andrea Asperti,Giuseppe Longo,1991 Category theory is a mathematical subject whose importance in several areas of computer science most notably the semantics of programming languages and the design of programmes using abstract data types is widely acknowledged This book introduces category theory at a level appropriate for computer scientists and provides practical examples in the context of programming language design    Journal of the Indian Institute of Science Indian Institute of Science, Bangalore,1993

   Theoretical Aspects of Computer Software Masami Hagiya,John C. Mitchell,1994 This volume contains the proceedings of the Second International Symposium on Theoretical Aspects of Computer Science held at Tohoku University Japan in April 1994 This top level international symposium on theoretical computer science is devoted to theoretical aspects of programming programming languages and system and parallel and distributed computation The papers in the volume are grouped into sessions on lambda calculus and programming automated deduction functional programming objects and assignments concurrency term rewriting and process equivalence type theory and programming algebra categories and linear logic and subtyping intersection and union types The volume also includes seven invited talks and two open lectures PUBLISHER S WEBSITE    *Choice* ,1993    Fundamenta Informaticae Polskie Towarzystwo Matematyczne,1999

   *Mathematical Reviews* ,2007    **Algebraic Methodology and Software Technology** ,2004    *Artificial Intelligence and Symbolic Computation* ,2000    **Revista colombiana de matemáticas** ,1999    Algebra of Programming Richard Bird,Oege de Moor,1997 Describing an algebraic approach to programming based on a categorical calculus of relations this book is suitable for the derivation of individual programs and for the study of programming principles in general

   **Theorem Proving in Higher Order Logics** Joakim von Wright,Jim Grundy,John Harrison,1996-08-07 This book constitutes the refereed proceedings of the 9th International Conference on Theorem Proving in Higher Order Logics TPHOL 96 held in Turku Finland in August 1996 The 27 revised full papers included together with one invited paper were carefully selected from a total of 46 submissions The topics addressed are theorem proving technology proof automation and decision procedures mechanized theorem proving extensions of higher order logics integration of external tools novel applications and others All in all the volume is an up to date report on the state of the art in this increasingly active field    **Typed Lambda Calculi and Applications** ,1995    **Proceedings of FMSP ...** ,2000

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**Table of Contents Basic Category Theory For Computer Scientists**

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