

# Category Theory Lecture Notes

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# Category Theory Lecture Notes University Of Edinburgh

**Joakim von Wright, Jim Grundy, John  
Harrison**



## **Category Theory Lecture Notes University Of Edinburgh:**

*Basic Category Theory for Computer Scientists* Benjamin C. Pierce, 1991-08-07 Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science especially in programming language semantics domain theory and concurrency where it is already a standard language of discourse Assuming a minimum of mathematical preparation Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Four case studies illustrate applications of category theory to programming language design semantics and the solution of recursive domain equations A brief literature survey offers suggestions for further study in more advanced texts Contents Tutorial Applications Further Reading [Category Theory and Computer Science](#) Eugenio Moggi, Giuseppe Rosolini, 1997-08-20 This book constitutes the refereed proceedings of the 7th International Conference on Category Theory and Computer Science CTCS 97 held in Santa Margheria Ligure Italy in September 1997 Category theory attracts interest in the theoretical computer science community because of its ability to establish connections between different areas in computer science and mathematics and to provide a few generic principles for organizing mathematical theories This book presents a selection of 15 revised full papers together with three invited contributions The topics addressed include reasoning principles for types rewriting program semantics and structuring of logical systems **Category Theory 1991: Proceedings of the 1991 Summer Category Theory Meeting, Montreal, Canada** Robert Andrew George Seely, 1992 Twenty seven papers address applications of category theory in new domains as well as in its traditional contexts Among the topics a Stone duality for metric spaces sheaves in cocomplete categories completeness in continuity spaces dualities for accessible categories some problems in descriptive locale theory modeling homotopy coherence and functorial selection of morphisms No index Annotation copyright by Book News Inc Portland OR **Algebraic Methods in Semantics** M. Nivat, John C. Reynolds, 1985 This book which contains contributions from leading researchers in France USA and Great Britain gives detailed accounts of a variety of methods for describing the semantics of programming languages i e for attaching to programs mathematical objects that encompass their meaning Consideration is given to both denotational semantics where the meaning of a program is regarded as a function from inputs to outputs and operational semantics where the meaning includes the sequence of states or terms generated internally during the computation The major problems considered include equivalence relations between operational and denotational semantics rules for obtaining optimal computations especially for nondeterministic programs equivalence of programs meaning preserving transformations of programs and program proving by assertions Such problems are discussed for a variety of

programming languages and formalisms and a wealth of mathematical tools is described **Category Theory and Computer Science** David H. Pitt, Pierre-Louis Curien, Samson Abramsky, Andrew Pitts, Axel Poigne, David E. Rydeheard, 1991-08-21 The papers in this volume were presented at the fourth biennial Summer Conference on Category Theory and Computer Science held in Paris September 3-6 1991 Category theory continues to be an important tool in foundational studies in computer science It has been widely applied by logicians to get concise interpretations of many logical concepts Links between logic and computer science have been developed now for over twenty years notably via the Curry Howard isomorphism which identifies programs with proofs and types with propositions The triangle category theory logic programming presents a rich world of interconnections Topics covered in this volume include the following Type theory stratification of types and propositions can be discussed in a categorical setting Domain theory synthetic domain theory develops domain theory internally in the constructive universe of the effective topos Linear logic the reconstruction of logic based on propositions as resources leads to alternatives to traditional syntaxes The proceedings of the previous three category theory conferences appear as Lecture Notes in Computer Science Volumes 240 283 and 389 **Category Theory and Computer Programming**, 1985 *Category Theory and Computer Science*, 1991 *Category Theory for Computing Science* Michael Barr, Charles Wells, 1995 A wide coverage of topics in category theory and computer science is developed in this text including introductory treatments of cartesian closed categories sketches and elementary categorical model theory and triples Over 300 exercises are included **American Book Publishing Record**, 1977-03-31 Here's quick access to more than 490 000 titles published from 1970 to 1984 arranged in Dewey sequence with sections for Adult and Juvenile Fiction Author and Title indexes are included and a Subject Guide correlates primary subjects with Dewey and LC classification numbers These cumulative records are available in three separate sets **A Classical Mind** A. W. Roscoe, Charles Antony Richard Hoare, 1994 To celebrate the 60th birthday and the achievement of C A R Hoare a rich assembly of contributors have pulled together to provide a volume of essays which are dedicated to Tony Hoare and his approach to Computer Science Recognizing the huge difference that Tony has made to the way that computing is perceived each contributor has a very personal way of expressing their respect for his commitment and enterprise To be included with the Hoare Computer Science Series Reads like a who's who of computing each paper written by a key person in the field Niche market but has the ability to appeal to a wide range of lecturers students librarians *Mathematical Foundations of Computer Science*, 1994 [Presheaf Models for CCS-like Languages](#) Gian Luca Cattani, University of Cambridge. Computer Laboratory, Glynn Winskel, 1999 Abstract The aim of this paper is to harness the mathematical machinery around presheaves for the purposes of process calculi Joyal Nielsen and Winskel proposed a general definition of bisimulation from open maps Here we show that open map bisimulations within a range of presheaf models are congruences for a general process language in which CCS and related languages are easily encoded The results are then transferred to traditional models for

processes By first establishing the congruence results for presheaf models abstract general proofs of congruence properties can be provided and the awkwardness caused through traditional models not always possessing the cartesian liftings used in the break down of process operations are side stepped The abstract results are applied to show that hereditary history preserving bisimulation is a congruence for CCS like languages to which is added a refinement operator on event structures as proposed by van Glabbeek and Goltz

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Hidden Logic Grigore Ros'u, 2000

**Logic Programming**, 1988 1988 papers presented at the joint meeting of the Fifth International Conference on Logic Programming and the Fifth Symposium on Logic Programming

**Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09

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

Elements of Functional Programming Chris Reade, 1989 Software Programming Techniques

*Application and Theory of Petri Nets, 1992* Kurt Jensen, 1992 This volume contains the proceedings of the 13th International Conference on Application and Theory of Petri Nets held in Sheffield England in June 1992 The aim of the Petri net conferences is to create a forum for discussing progress in the application and theory of Petri nets Typically the conferences have 150 200 participants one third of these coming from industry and the rest from universities and research institutions The 1992 conference was organized by the School of Computing and Management Sciences at Sheffield City Polytechnic England The volume contains two invited papers by G Balbo and W Reisig 18 submitted papers and seven project papers The submitted papers and project presentations were selected by the programme committee and a panel of referees from a large number of submissions PUBLISHER S WEBSITE

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