

# Internalizing Labeled Deduction

Patrick Blackburn

## Abstract

This paper shows how to internalize the Kripke satisfaction definition using *labeled modal languages* and explores the proof-theoretic consequences of this. As we shall see, using labeled modal languages enables us to transfer classic Gabbay-style labeled deduction from the metalanguage to the object language, and to handle the required labeling discipline purely logically. Moreover, internalized labeled deduction links neatly with the Gabbay-style rules now widely used in modal Hilbert-systems, completeness results for a wide range of first-order definable frame classes can be obtained automatically, and the method extends straightforwardly to richer languages. The paper discusses related work by Jerry Seligman and Miroslava Trakova and concludes with some reflections on the status of labeling in modal logic.

## 1 Introduction

Modern modal logic revolves around the Kripke satisfaction relation:

$$\mathcal{M}, w \Vdash \varphi.$$

This says that the model  $\mathcal{M}$  satisfies (or forces, or supports) the modal formula  $\varphi$  at the state  $w$  in  $\mathcal{M}$ . Now, the  $\Vdash$  relation is inductively defined in the metalanguage. In this paper we investigate the proof-theoretic consequences of internalizing this relation; that is, mirroring it in the object language.

We shall internalize  $\Vdash$  as follows. First we shall add a new sort of atomic symbol — *nominals* — to the object language. These symbols, which we typically write as  $i$ ,  $j$ ,  $k$  and  $l$ , are ordinary formulas. Syntactically they behave just like the familiar propositional variables; they can be negated, conjoined, placed in the scope of modalities, and so on. But there is a semantic difference: any nominal will be true at *exactly one* state in any model. To add nominals to a modal language is in effect to add a collection of *labels*; each nominal ‘labels’ the unique state it is true at.

Second, we shall allow ourselves to form a new kind of formula: given a nominal  $i$ , and any formula  $\varphi$  we can form  $i : \varphi$ . These are the formulas that mirror the  $\Vdash$  relation; a formula of the form  $i : \varphi$  will be true at any state in a model if and only if  $\varphi$  is true at the (unique) state that  $i$  labels. We call these new  $i$  prefixes *satisfaction operators*.

Much of the paper is concerned with the consequences of these two simple extensions — both of which, incidentally, have been considered before. Now, although I shall later present broader reasons for believing these extensions to be

# Labelled Deduction

**Anjolina G. de Oliveira**



## Labelled Deduction:

Labelled Non-Classical Logics Luca Viganò, 2013-04-17 I am very happy to have this opportunity to introduce Luca Viganò's book on Labelled Non Classical Logics I put forward the methodology of labelled deductive systems to the participants of Logic Colloquium 90 Labelled Deductive systems a Position Paper In J Oikkonen and J Vaananen editors Logic Colloquium 90 Volume 2 of Lecture Notes in Logic pages 66 68 Springer Berlin 1993 in an attempt to bring labelling as a recognised and significant component of our logic culture It was a response to earlier isolated uses of labels by various distinguished authors as a means to achieve local proof theoretic goals Labelling was used in many different areas such as resource labelling in relevance logics prefix tableaux in modal logics annotated logic programs in logic programming proof tracing in truth maintenance systems and various side annotations in higher order proof theory arithmetic and analysis This widespread local use of labels was an indication of an underlying logical pattern namely the simultaneous side by side manipulation of several kinds of logical information It was clear that there was a need to establish the labelled deductive systems methodology Modal logic is one major area where labelling can be developed quickly and systematically with a view of demonstrating its power and significant advantage In modal logic the labels can play a double role The Functional Interpretation of Logical Deduction Anjolina G. de Oliveira, 2012 This comprehensive book provides an adequate framework to establish various calculi of logical inference Being an OCy-enriched OCO system of natural deduction it helps to formulate logical calculi in an operational manner By uncovering a certain harmony between a functional calculus on the labels and a logical calculus on the formulas it allows mathematical foundations for systems of logic presentation designed to handle meta level features at the object level via a labelling mechanism such as the D Gabbay's Labelled Deductive Systems The book truly demonstrates that introducing OCy-labels OCO is useful to understand the proof calculus itself and also to clarify its connections with model theoretic interpretations Hybrid Logic and its Proof-Theory Torben Braüner, 2010-11-17 This is the first book length treatment of hybrid logic and its proof theory Hybrid logic is an extension of ordinary modal logic which allows explicit reference to individual points in a model where the points represent times possible worlds states in a computer or something else This is useful for many applications for example when reasoning about time one often wants to formulate a series of statements about what happens at specific times There is little consensus about proof theory for ordinary modal logic Many modal logical proof systems lack important properties and the relationships between proof systems for different modal logics are often unclear In the present book we demonstrate that hybrid logical proof theory remedies these deficiencies by giving a spectrum of well behaved proof systems natural deduction Gentzen tableau and axiom systems for a spectrum of different hybrid logics propositional first order intensional first order and intuitionistic *Frontiers of Combining Systems* Alessandro Armando, 2003-08-01 This volume contains the proceedings of FroCoS 2002 the 4th International Workshop on Frontiers of Combining Systems held April 8 10 2002 in Santa Margherita Ligure near Genova Italy Like its predecessors organized in

nich 1996 Amsterdam 1998 and Nancy 2000 FroCoS 2002 offered a common forum for the presentation and discussion of research activities on the combination and integration of systems in various areas of computer science such as logic computation program development and proof artificial intelligence mechanical verification and symbolic computation There were 35 submissions of high quality authored by researchers from countries including Australia Belgium Brazil Finland France Germany Italy Portugal Spain Singapore United Kingdom United States of America and Yugoslavia All the submissions were thoroughly evaluated on the basis of at least three referee reports and an electronic program committee meeting was held through the Internet The program committee selected 14 research contributions The topics covered by the selected papers include combination of logics combination of constraint solving techniques combination of decision procedures combination problems in verification modular properties of theorem proving integration of decision procedures and other solving processes into constraint programming and deduction systems

**Frontiers of Combining Systems** F. Baader, K.U. Schulz, 2013-11-09 Donation refusal is high in all the regions of Argentina The deficient operative structure is a negative reality that allows inadequate donor maintenance and organ procurement In more developed regions there are a high number of organs which are not utilized This is true for heart liver and lungs Small waiting lists for these organs probably reflect an inadequate economic coverage for these organ transplant activities There is a long waiting list for cadaveric kidney transplants which reflect poor procurement and transplant activity Lack of awareness by many physicians leads to the denouncing of brain deaths In spite of these factors we can say that there has been a significant growth in organ procurement and transplantation in 1993 after the regionalization of the INCUCAI Conclusions Is there a shortage of organs in Argentina There may be But the situation in Argentina differs from that in Europe as we have a pool of organs which are not utilized donation refusal operational deficits lack of denouncing of brain deaths Perhaps in the future when we are able to make good use of all the organs submitted for transplantation we will be able to say objectively whether the number of organs is sufficient or not Acknowledgements I would like to thank the University of Lyon and the Merieux Foundation especially Professors Traeger Touraine and Dr Dupuy for the honour of being invited to talk about the issue of organ procurement

**Advances in Modal Logic** Frank Wolter, 2002 Advances in Modal Logic is a unique forum for presenting the latest results and new directions of research in modal logic The topics dealt with are of interdisciplinary interest and range from mathematical computational and philosophical problems to applications in knowledge representation and formal linguistics Volume 3 presents substantial advances in the relational model theory and the algorithmic treatment of modal logics It contains invited and contributed papers from the third conference on OC Advances in Modal Logic OCO held at the University of Leipzig Germany in October 2000 It includes papers on dynamic logic description logic hybrid logic epistemic logic combinations of modal logics tense logic action logic provability logic and modal predicate logic

CAAP '92 Jean-Claude Raoult, 1992-02-19 This volume contains selected papers presented at the seventeenth Colloquium on Trees in Algebra and

Programming CAAP held jointly with the European Symposium on Programming ESOP in Rennes France February 26 28  
 1992 the proceedings of ESOP appear in LNCS 582 The previous colloquia were held in France Italy Germany Spain  
 Denmark and England Every even year as in 1992 CAAP is held jointly with ESOP every other year it is part of TAPSOFT  
 Theory And Practice of SOFTware development In the beginning CAAP was devoted to algebraic and combinatorial  
 properties of trees and their role in various fields of computer science The scope of CAAP has now been extended to other  
 discrete structures like graphs equations and transformations of graphs and their links with logical theories The programme  
 committee received 40 submissions from which 19 papers have been selected for inclusion in this volume     Themes in  
Neoplatonic and Aristotelian Logic John N. Martin, 2017-05-15 Were the most serious philosophers of the millennium 200 A D  
 to 1200 A D just confused mystics This book shows otherwise John Martin rehabilitates Neoplatonism founded by Plotinus  
 and brought into Christianity by St Augustine The Neoplatonists devise ranking predicates like good excellent perfect to  
 divide the Chain of Being and use the predicate intensifier hyper so that it becomes a valid logical argument to reason from  
 God is not merely good to God is hyper good In this way the relational facts underlying reality find expression in Aristotle's  
 subject predicate statements and the Platonic tradition proves able to subsume Aristotle's logic while at the same time  
 rejecting his metaphysics In the Middle Ages when Aristotle's larger philosophy was recovered and joined again to the  
 Neoplatonic tradition which was never lost Neoplatonic logic lived along side Aristotle's metaphysics in a sometime confusing  
 and unsettled way Showing Neoplatonism to be significantly richer in its logical and philosophical ideas than it is usually  
 given credit for this book will be of interest not just to historians of logic but to philosophers logicians linguists and  
 theologians     Semantics. Volume 1 Claudia Maienborn, Klaus von Heusinger, Paul Portner, 2011-07-27 No detailed  
 description available for SEMANTICS MAIENBORN ET AL BD 33 1 HSK E BOOK     Semantics Claudia Maienborn, Klaus  
 von Heusinger, Paul Portner, 2011     **Logic, Language and Reasoning** Hans Jürgen Ohlbach, U. Reyle, 2012-12-06 th This  
 volume is dedicated to Dov Gabbay who celebrated his 50 birthday in October 1995 Dov is one of the most outstanding and  
 most productive researchers we have ever met He has exerted a profound influence in major fields of logic linguistics and  
 computer science His contributions in the areas of logic language and reasoning are so numerous that a comprehensive  
 survey would already fill half of this book Instead of summarizing his work we decided to let him speak for himself Sitting in  
 a car on the way to Amsterdam airport he gave an interview to Jelle Gerbrandy and Anne Marie Mineur This recorded  
 conversation with him which is included gives a deep insight into his motivations and into his view of the world the Almighty  
 and of course the role of logic In addition this volume contains a partially annotated bibliography of his main papers and  
 books The length of the bibliography and the broadness of the topics covered there speaks for itself     **Agenda Relevance:**  
**A Study in Formal Pragmatics** , 2003-05-29 Agenda Relevance is the first volume in the authors omnibus investigation  
 of the logic of practical reasoning under the collective title A Practical Logic of Cognitive Systems In this highly original

approach practical reasoning is identified as reasoning performed with comparatively few cognitive assets including resources such as information time and computational capacity. Unlike what is proposed in optimization models of human cognition, a practical reasoner lacks perfect information, boundless time, and unconstrained access to computational complexity. The practical reasoner is therefore obliged to be a cognitive economizer and to achieve his cognitive ends with considerable efficiency. Accordingly, the practical reasoner avails himself of various scarce resource compensation strategies. He also possesses neurocognitive traits that abet him in his reasoning tasks. Prominent among these is the practical agent's striking though not perfect adeptness at evading irrelevant information and staying on task. On the approach taken here, irrelevancies are impediments to the attainment of cognitive ends. Thus, in its most basic sense, relevant information is cognitively helpful information. Information can then be said to be relevant for a practical reasoner to the extent that it advances or closes some cognitive agenda of his. The book explores this idea with a conceptual detail and nuance not seen in the standard semantic, probabilistic, and pragmatic approaches to relevance, but wherever possible, the authors seek to integrate alternative conceptions rather than reject them outright. A further attraction of the agenda relevance approach is the extent to which its principal conceptual findings lend themselves to technically sophisticated re-expression in formal models that marshal the resources of time and action logics and labelled deductive systems. Agenda Relevance is necessary reading for researchers in logic, belief dynamics, computer science, AI, psychology, and neuroscience, linguistics, argumentation theory, and legal reasoning, and forensic science, and will repay study by graduate students and senior undergraduates in these same fields. Key features: relevance, action, and agendas, practical reasoning, belief dynamics, non-classical logics, labelled deductive systems.

*Advanced Topics in Artificial Intelligence* John K. Slaney, 1998-10-07. This book constitutes the refereed proceedings of the 10th Australian Joint Conference on Artificial Intelligence AI 97 held in Perth, Australia, in November/December 1997. The volume presents 48 revised full papers selected from a total of 143 submissions. Also included are three keynote talks and one invited paper. The book is divided into topical sections on constraint satisfaction and scheduling, computer vision, distributed AI, evolutionary computing, knowledge-based systems, knowledge representation and reasoning, learning and machine vision, machine learning, NLP, and user modeling, neural networks, robotics, and machine recognition, and temporal/qualitative reasoning.

**Auravana Social System** Auravana, 2022-07-12. This publication is the Social System for a community-type society; it is a standardized social system for the organized structuring of a mutually fulfilled social population. A social system describes the organized structuring of a social environment. A social system is a grouping of units of individuation, here units of consciousness, forming a cooperative network in which information is shared and integrated through a whole data structure. The term social system is used in general to refer to lifeforms in definite relation to each other, which have enduring patterns of behavior in that relationship. This social system standard identifies humanity's aligned interests and that which everyone has socially in common. It is an organizing system for social navigation that specifies a

direction orientation and approach to socio technical life The standard details the purpose for the society s existence a direction its value system an orientation and its approach a methodology and methods Herein these concepts their relationships and understandings are defined and modeled Discursive reasoning is provided for the selection of this specific configuration of a social system as opposed to the selection and encoding of other configurations and their consequences are evidenced The social system provides a description of who humanity is and where humanity is going by identifying its social organization

*Dynamics and Management of Reasoning Processes* John-Jules Meyer, Jan Treur, 2001-12-31 This volume the 6th volume in the DRUMS Handbook series is part of the after math of the successful ESPRIT project DRUMS Defeasible Reasoning and Uncertainty Management Systems which took place in two stages from 1989 1996 In the second stage 1993 1996 a work package was introduced devoted to the topics Reasoning and Dynamics covering both the topics of Dynamics of Reasoning where reasoning is viewed as a process and Reasoning about Dynamics which must be understood as pertaining to how both designers of and agents within dynamic systems may reason about these systems The present volume presents work done in this context This work has an emphasis on modelling and formal techniques in the investigation of the topic Reasoning and Dynamics but it is not mere theory that occupied us Rather research was aimed at bridging the gap between theory and practice Therefore also real life applications of the modelling techniques were considered and we hope this also shows in this volume which is focused on the dynamics of reasoning processes In order to give the book a broader perspective we have invited a number of well known researchers outside the project but working on similar topics to contribute as well We have very pleasant recollections of the project with its lively workshops and other meetings with the many sites and researchers involved both within and outside our own work package

**Fundamentals of EU VAT Law** Ad van Doesum, Herman van Kesteren, Simon Cornielje, Frank Nellen, 2025-02-19 Value added tax VAT is responsible for generating almost EUR 1200 billion per year in tax revenues across the European Union revenues that play a huge role in budgetary policymaking in the Member States This extremely useful book provides not only a thorough description of the current state of EU VAT law but also a detailed explanation of the system s rationale and its legislative provisions It puts the elements of the system in perspective and shows how they are linked to each other The focus lies on the rules which can be deduced from the sources of EU VAT law and on their application in practice The systematic presentation covers such issues and topics as the following sources of EU VAT law including principles derived from CJEU case law principles underlying the EU VAT system relations among the layers of VAT law primary and secondary EU law national law how to apply the VAT legislation and case law allocation of taxing rights place of supply rules invoicing requirements and other administrative obligations exemptions the taxable amount and the new VAT rates structure the right of deduction of input VAT intra Community transactions importation and exportation e commerce distance sales rules platforms and the one stop shop mechanism immovable property holding companies and dealings in shares and how far a national court must and can go in

interpreting national provisions in light of the VAT Directive and the principles underlying the VAT system The book follows the structure of the VAT Directive VAT determination scheme with additional topical chapters on immovable property intra Community transactions importation and exportation of goods and shares and other securities With its detailed attention to the meaning and interpretation of the most prominent legislative provisions and court rulings this book serves as an incomparable guide for practitioners Its emphasis on the rationale and systematics of the EU VAT system and abundance of references to case law and literature make it an indispensable reference for all tax law professionals including legislators judges and researchers

*Handbook of Philosophical Logic* Dov M. Gabbay, Franz Guenther, 2013-08-04 This second edition of the Handbook of Philosophical Logic reflects great changes in the landscape of philosophical logic since the first edition It gives readers an idea of that landscape and its relation to computer science and formal language and artificial intelligence It shows how the increased demand for philosophical logic from computer science and artificial intelligence and computational linguistics accelerated the development of the subject directly and indirectly This development in turn directly pushed research forward stimulated by the needs of applications New logic areas became established and old areas were enriched and expanded At the same time it socially provided employment for generations of logicians residing in computer science linguistics and electrical engineering departments which of course helped keep the logic community to thrive The many contributors to this Handbook are active in these application areas and are among the most famous leading figures of applied philosophical logic of our times

Semantics - Foundations, History and Methods Klaus Heusinger, Claudia Maienborn, Paul Portner, 2019-02-19 Get to grips with the fundamentals of semantics research Written by a team of world class experts this book introduces the subject for a broad audience of linguists cognitive scientists philosophers and computer scientists It explores the core concepts of sentential semantics and includes sections on questions imperatives copular clauses and existential sentences It also features essential research on sentence types and explains central concepts in the theory of information structure and discourse structure Now in paperback for the first time since its original publication the material in this modern classic is an ideal resource for anyone involved in semantics research

**Saul Kripke on Modal Logic** Yale Weiss, Romina Birman, 2024-10-02 This edited volume brings together papers by both eminent and rising scholars to celebrate Saul Kripke's singular contributions to modal logic Kripke's work on modal logic helped usher in a new semantic epoch for the field and made facility with modal logic indispensable not only to technically oriented philosophers but to theoretical computer scientists and others as well This volume features previously unpublished work of Kripke's as well as a brief intellectual biography recounting the story of how Kripke became interested in and made his first contributions to modal logic However the majority of the volume's contributions are forward looking and produce new philosophical and technical insights by engaging with ideas tracing back to Kripke

*Categorical Grammar* Glyn Morrill, 2011 This book provides a state of the art introduction to categorial grammar a type of formal grammar which analyses



expressions as functions or according to a function argument relationship The book's focus is on linguistic computational and psycholinguistic aspects of logical categorial grammar i.e. enriched Lambek Calculus Glyn Morrill opens with the history and notation of Lambek Calculus and its application to syntax semantics and processing Successive chapters extend the grammar to a number of significant syntactic and semantic properties of natural language The final part applies Morrill's account to several current issues in processing and parsing considered from both a psychological and a computational perspective The book offers a rigorous and thoughtful study of one of the main lines of research in the formal and mathematical theory of grammar and will be suitable for students of linguistics and cognitive science from advanced undergraduate level upwards

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### **Table of Contents Labelled Deduction**

1. Understanding the eBook Labelled Deduction
  - The Rise of Digital Reading Labelled Deduction
  - Advantages of eBooks Over Traditional Books
2. Identifying Labelled Deduction
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Labelled Deduction
  - User-Friendly Interface
4. Exploring eBook Recommendations from Labelled Deduction
  - Personalized Recommendations
  - Labelled Deduction User Reviews and Ratings
  - Labelled Deduction and Bestseller Lists
5. Accessing Labelled Deduction Free and Paid eBooks

- Labelled Deduction Public Domain eBooks
- Labelled Deduction eBook Subscription Services
- Labelled Deduction Budget-Friendly Options
- 6. Navigating Labelled Deduction eBook Formats
  - ePub, PDF, MOBI, and More
  - Labelled Deduction Compatibility with Devices
  - Labelled Deduction Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Labelled Deduction
  - Highlighting and Note-Taking Labelled Deduction
  - Interactive Elements Labelled Deduction
- 8. Staying Engaged with Labelled Deduction
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Labelled Deduction
- 9. Balancing eBooks and Physical Books Labelled Deduction
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Labelled Deduction
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Labelled Deduction
  - Setting Reading Goals Labelled Deduction
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Labelled Deduction
  - Fact-Checking eBook Content of Labelled Deduction
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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