

## Logic laws

**Logic law (tautology)** is always true, independently from values of variables  $p, q, r, \dots$ , which it is compound.

commutative law for **conjunction**

$$p \wedge q \Leftrightarrow q \wedge p$$

commutative law for disjunction

$$p \vee q \Leftrightarrow q \vee p$$

associative law for conjunction

$$(p \wedge q) \wedge r \Leftrightarrow p \wedge (q \wedge r)$$

associative law for disjunction

$$(p \vee q) \vee r \Leftrightarrow p \vee (q \vee r)$$

distributive law for conjunction  
over disjunction

$$p \wedge (q \vee r) \Leftrightarrow (p \wedge q) \vee (p \wedge r)$$

distributive law for disjunction  
over conjunction

$$p \vee (q \wedge r) \Leftrightarrow (p \vee q) \wedge (p \vee r)$$

involution law

$$\sim(\sim p) \Leftrightarrow p$$

negation conditional law

$$\sim(p \Rightarrow q) \Leftrightarrow (p \wedge \sim q)$$

De Morgan's laws

$$\sim(p \wedge q) \Leftrightarrow (\sim p) \vee (\sim q)$$

$$\sim(p \vee q) \Leftrightarrow (\sim p) \wedge (\sim q)$$

De Morgan's laws for statement with **quantifiers**

$$\sim(\forall x p(x)) \Leftrightarrow \exists x (\sim p(x))$$

$$\sim(\exists x q(x)) \Leftrightarrow \forall x (\sim q(x))$$

## Exercises + Solutions

# Logic In Law

**Shahid Rahman, Matthias  
Armgarth, Hans Christian Nordtveit  
Kvernenes**

## **Logic In Law:**

**Logic in Law** A. Soeteman, 2013-03-14 The study presented in this book was entered upon by me from a legal point of view Legal logic has been known for a long time concerning itself with the methodology of legal and in particular judicial reasoning In modern days however this legal logic is sometimes also connected with modern formal logic as it has been developed in the works of G Boole A de Morgan G Frege C S Peirce E Schroder G Peano A N Whitehead B Russell and others For me this gave rise to the as yet not very specific question about the meaning of modern symbolic logic for law Already in an early stage it appeared that although traditional legal logic and modern symbolic logic both concern logic this may not create the misapprehension that a similar matter is at issue Both concern themselves among other things with reasonings and reasoning Traditional legal logic is however as it was said by the German legal theoretician K Engisch a material logic that wants us to reflect on what we have to do if we within the limits of actual possibility wish to reach true or at least correct judgements Engisch 1964 p 5 Modern symbolic logic on the other hand is not concerned with the truth or correctness of the result of an argument but with its validity i e the question when or under which conditions the truth correctness of the conclusion is guaranteed by the truth correctness of the premisses New Developments in Legal Reasoning and Logic Shahid Rahman, Matthias Armgardt, Hans Christian Nordtveit Kvernenes, 2021-12-16 This book intends to unite studies in different fields related to the development of the relations between logic law and legal reasoning Combining historical and philosophical studies on legal reasoning in Civil and Common Law and on the often neglected Arabic and Talmudic traditions of jurisprudence this project unites these areas with recent technical developments in computer science This combination has resulted in renewed interest in deontic logic and logic of norms that stems from the interaction between artificial intelligence and law and their applications to these areas of logic The book also aims to motivate and launch a more intense interaction between the historical and philosophical work of Arabic Talmudic and European jurisprudence The publication discusses new insights in the interaction between logic and law and more precisely the study of different answers to the question what role does logic play in legal reasoning Varying perspectives include that of foundational studies such as logical principles and frameworks to applications and historical perspectives Law and Logic Joseph Horowitz, 2012-12-06 This book has two related aims to investigate the frequently voiced claim that legal argument is nonformal in nature and within the limits of such an investigation to ascertain the most general proper ties of law as a rational system Examination of a number of views of legal argument selected from recent discussions in Germany Belgium and the English speaking countries will lead to the follow ing main conclusions The nonformalistic conceptions of the logic of legal argument are ambiguous and unclear Moreover insofar as these conceptions are capable of clarification in the light of recent analytical methodology they can be seen to be either mistaken or else compatible with the formalistic position Because law is socially directive and coordinative it is dependent upon theoretical psycho sociology and calls in principle for a deontic and inductive logic The

primary function of legal argument is to provide continuing reinterpretation and confirmation of legal rules conceived as theoretical prescriptions On the basis of this conception the old juris prudential conflict between formalism and rule scepticism appears substantially resolved Aristotle the founder of the theory of argument conceived it as the science of establishing conclusions and the theory of practical argument was either neglected or relegated to an appendix to rhetoric

**Past and Present Interactions in Legal Reasoning and Logic** Matthias Armgardt, Patrice Canivez, Sandrine Chassagnard-Pinet, 2015-05-18 This volume explores the relation between legal reasoning and logic from both a historical and a systematic perspective The topics addressed include among others conditional legal acts disjunctions in legal acts presumptions and conjectures conflicts of values Jørgensen's Dilemma the Rhetoric's Dilemma the theory of legal fictions and the categorization of contracts The unifying problematic of these contributions concerns the conditional structures and more particularly the relationship between legal theory and legal reasoning in the context of conditions The contributions in this work constitute the first results of the ANR DFG joint research project JuriLog Jurisprudence and Logic which aims at fostering the cooperation between legal scholars and philosophers On the one hand lawyers and legal scholars have an interest in emphasizing the logical character of legal reasoning In this respect the present enquiry examines the question of how logic especially newer forms of dialogical logic can be made fruitful as a significant area of philosophy for jurisprudence and legal practice On the other hand logicians find in legal reasoning a striving towards clear definitions and inference procedures that is relevant to their discipline In order to fully understand such reciprocal relationships it is necessary to bridge the gap between law logic and philosophy in contemporary academic research The essays collected in this volume all work towards this common goal The book is divided in three sections In the first part the strong relation between Roman Law and logic is explored with respect to the analysis of disjunctive statements in legal acts The second part focuses on Leibniz's legal theory The third part finally is dedicated to current interactions between law and logic

New Developments in Legal Reasoning and Logic Shahid Rahman, Matthias Armgardt, Hans Christian Nordtveit Kvernenes, 2022 This book intends to unite studies in different fields related to the development of the relations between logic law and legal reasoning Combining historical and philosophical studies on legal reasoning in Civil and Common Law and on the often neglected Arabic and Talmudic traditions of jurisprudence this project unites these areas with recent technical developments in computer science This combination has resulted in renewed interest in deontic logic and logic of norms that stems from the interaction between artificial intelligence and law and their applications to these areas of logic The book also aims to motivate and launch a more intense interaction between the historical and philosophical work of Arabic Talmudic and European jurisprudence The publication discusses new insights in the interaction between logic and law and more precisely the study of different answers to the question what role does logic play in legal reasoning Varying perspectives include that of foundational studies such as logical principles and frameworks to applications and historical perspectives

**Logic for**

**Lawyers** Ruggero J. Aldisert, 1989 This book tackles the basics of legal reasoning in twelve chapters including the principles of classic logic deductive and inductive reasoning application of the Socratic method to legal reasoning and formal and material fallacies

*Studies in Legal Logic* Jaap Hage, 2006-03-30 *Studies in Legal Logic* is a collection of nine interrelated papers about the logic epistemology and ontology of law All of the papers were written after the publication of the author's *Reasoning with Rules* and supplement the issues addressed therein Some of the papers are new others have been revised substantially after the publication of their original versions The emphasis is on analysis not on logical technicalities *Studies in Legal Logic* contains chapters about the nature of norms the role of coherence in the law the nature of defeasibility the role of dialectics in law and artificial intelligence the statics and dynamics of the law and the consistency of rules Moreover it contains a new simplified and yet more powerful version of Reason based Logic and extensive examples of how it can be used for the analysis of legal reasoning The examples deal with legal theory construction case based reasoning and judicial proof

**Law as Logic and Experience** Max Radin, 2000 Radin Max *Law as Logic and Experience* New Haven Yale University Press 1940 ix 1 171 pp Reprinted 2000 by The Lawbook Exchange Ltd LCCN 99 30670 ISBN 1 58477 008 2 Cloth 55 Although this volume does not purport to be a serious contribution to legal science or to legal philosophy it is full of the mellow wisdom the gracious erudition the provoking phrase and the human sympathy that make almost anything that Max Radin says or writes worth pondering It presents a series of lectures on two texts the dictum of Coke J Reason is the life of the law and the dissenting opinion of Holmes J The life of the law has not been logic it has been experience Felix S Cohen *Harvard Law Review* 54 711 Marke A Catalogue of the Law Collection of New York University 1953 924

**Logic in Law** A. Soeteman, 2014-01-15

**Logic in the Theory and Practice of Lawmaking** Michał Araszkiewicz, Krzysztof Pleszka, 2015-10-05 This book presents the current state of the art regarding the application of logical tools to the problems of theory and practice of lawmaking It shows how contemporary logic may be useful in the analysis of legislation legislative drafting and legal reasoning concerning different contexts of law making Elaborations of the process of law making have variously emphasised its political social or economic aspects Yet despite strong interest in logical analyses of law questions remains about the role of logical tools in law making This volume attempts to bridge that gap or at least to narrow it drawing together some important research problems and some possible solutions as seen through the work of leading contemporary academics The volume encompasses 20 chapters written by authors from 16 countries and it presents diversified views on the understanding of logic from strict mathematical approaches to the informal argumentative ones and differentiated choices concerning the aspects of law making taken into account The book presents a broad set of perspectives insights and results into the emerging field of research devoted to the logical analysis of the area of creation of law How does logic inform lawmaking Are legal systems consistent and complete How can legal rules be represented by means of formal calculi and visualization techniques Does the structure of statutes or of legal systems resemble the structure of deductive systems What

are the logical relations between the basic concepts of jurisprudence that constitute the system of law How are theories of legal interpretation relevant to the process of legislation How might the statutory text be analysed by means of contemporary computer programs These and other questions ranging from the theoretical to the immediately practical are addressed in this definitive collection **The Underwriter**, 1874 Handbook of Legal Reasoning and Argumentation Giorgio Bongiovanni, Gerald Postema, Antonino Rotolo, Giovanni Sartor, Chiara Valentini, Douglas Walton, 2018-07-02 This handbook addresses legal reasoning and argumentation from a logical philosophical and legal perspective The main forms of legal reasoning and argumentation are covered in an exhaustive and critical fashion and are analysed in connection with more general types and problems of reasoning Accordingly the subject matter of the handbook divides in three parts The first one introduces and discusses the basic concepts of practical reasoning The second one discusses the general structures and procedures of reasoning and argumentation that are relevant to legal discourse The third one looks at their instantiations and developments of these aspects of argumentation as they are put to work in the law in different areas and applications of legal reasoning **Studies in Legal Logic** Jaap Hage, 2009-09-03 Studies in Legal Logic is a collection of nine interrelated papers about the logic epistemology and ontology of law All of the papers were written after the publication of the author's Reasoning with Rules and supplement the issues addressed therein Some of the papers are new others have been revised substantially after the publication of their original versions The emphasis is on analysis not on logical technicalities Studies in Legal Logic contains chapters about the nature of norms the role of coherence in the law the nature of defeasibility the role of dialectics in law and artificial intelligence the statics and dynamics of the law and the consistency of rules Moreover it contains a new simplified and yet more powerful version of Reason based Logic and extensive examples of how it can be used for the analysis of legal reasoning The examples deal with legal theory construction case based reasoning and judicial proof

**Logical Tools for Modelling Legal Argument** H. Prakken, 2013-04-17 This book is a revised and extended version of my PhD Thesis Logical Tools for Modelling Legal Argument which I defended on 14 January 1993 at the Free University Amsterdam The first five chapters of the thesis have remained almost completely unchanged but the other chapters have undergone considerable revision and expansion Most importantly I have replaced the formal argument based system of the old Chapters 6 7 and 8 with a revised and extended system which I have developed during the last three years in collaboration with Giovanni Sartor Apart from some technical improvements the main additions to the old system are the enrichment of its language with a nonprovability operator and the ability to formalise reasoning about preference criteria Moreover the new system has a very intuitive dialectical form as opposed to the rather unintuitive fixed point appearance of the old system Another important revision is the split of the old Chapter 9 into two new chapters The old Section 9.1 on related research has been updated and expanded into a whole chapter while the rest of the old chapter is now in revised form in Chapter 10 This chapter also contains two new contributions a detailed discussion of Gordon's Pleadings Game and a

general description of a multi layered overall view on the structure of argumentation comprising a logical dialectical procedural and strategic layer Finally in the revised conclusion I have paid more attention to the relevance of my investigations for legal philosophy and argumentation theory *The Blackwell Dictionary of Western Philosophy* Nicholas Bunnin, Jiyuan Yu, 2008-04-15 The Blackwell Dictionary of Western Philosophy The Blackwell Dictionary of Western Philosophy The style is fresh and engaging and it gives a broad and accurate picture of the western philosophical tradition It is a pleasure to browse in even if one is not looking for an answer to a particular question David Pears Its entries manage to avoid the obscurities of an exaggerated brevity without stretching themselves out as if seeking to embody whole miniature essays In short it presents itself as a model of clarity and clarification Alan Montefiore *Legal Logic* Ron Villanova, 2005 A condensed full semester course in Aristotelian logic for paralegals law students the legal field with the objectives of fostering awareness of reasoning processes the significance of words whether conclusions are valid or not using formal logical analysis

The Problems of Jurisprudence Richard A. Posner, 1993-03-15 Here one of America's most distinguished scholar judges shares with us his vision of the law Posner argues for a pragmatic jurisprudence one that eschews formalism in favor of the factual and the empirical Laws he argues are not abstract sacred entities but socially determined goads for shaping behavior to conform with society's values **On the path to AI** Thomas D. Grant, Damon J. Wischik, 2020-06-02 This open access book explores machine learning and its impact on how we make sense of the world It does so by bringing together two revolutions in a surprising analogy the revolution of machine learning which has placed computing on the path to artificial intelligence and the revolution in thinking about the law that was spurred by Oliver Wendell Holmes Jr in the last two decades of the 19th century Holmes reconceived law as prophecy based on experience prefiguring the buzzwords of the machine learning age prediction based on datasets On the path to AI introduces readers to the key concepts of machine learning discusses the potential applications and limitations of predictions generated by machines using data and informs current debates amongst scholars lawyers and policy makers on how it should be used and regulated wisely Technologists will also find useful lessons learned from the last 120 years of legal grappling with accountability explainability and biased data **Who's who Year-book for ...**, 1905 **Pluralism and Law** A. Soeteman, 2013-04-17 AREND SOETEMAN In the past we lived on one earth but in many different worlds Different civilisations in regions far apart knew about one another at least from about the 16th century they competed with one another or tried to dominate the other they influenced one another but in many important aspects they were independent from one another Somewhere in the 20th century however this changed There is no far apart anymore We have lived through two European wars which developed into world wars Modern aeroplanes allow us to travel in only a couple of hours around the world Instant communication between individuals who have the whole globe in between is a reality There still exist great differences between different civilisations But they can ignore one another only at their peril They deeply influence one another Today therefore we live in one world Conflicts in the

Middle East in Rwanda and Uganda or in the former Yugoslavia have their impact all over the world Violations of human rights no matter where are increasingly considered to be the concern of all of us The whims and caprices of some dictator may influence the spending possibilities of the general public far away



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