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# Law Of Analysis In Forensic Science

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Autopsy of a Crime Lab  
Chemical Analysis for Forensic Evidence  
Forensic Science and Law  
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Forensic Science and the Law  
Introduction to Forensic DNA Analysis

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## JOCELYN JACK

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### **Autopsy of a Crime Lab** Springer Nature

Forensic science has undergone dramatic progress in recent years, including in the areas of DNA collection and analysis and the reconstruction of crime scenes. However, too few professionals are equipped with the knowledge necessary to fully apply the potential of science in civil, criminal, and family legal matters. Featuring contributions from renowned experts in the forensic, scientific, and legal professions, *Forensic Science and Law: Investigative Applications in Criminal, Civil, and Family Justice* communicates the wide range of methods and approaches used for achieving justice in these circumstances. A solid grounding in the underlying principles of our legal system provides a context for understanding how these methods are applied. The book brings together the words and thoughts of diverse professionals whose common goal is to uncover the truth. About the editors... Cyril H. Wecht, M.D., J.D., is actively involved as a medical-legal and forensic science consultant, author, and lecturer. Currently coroner of Allegheny County (Pittsburgh), Pennsylvania, he is certified by the American Board of Pathology in anatomic, clinical, and forensic pathology and is a Fellow of the College of American Pathologists and the American Society of Clinical Pathologists. Dr. Wecht is a Clinical Professor at the University of Pittsburgh Schools of Medicine, Dental Medicine, and Graduate School of Public Health, an Adjunct Professor at Duquesne University Schools of Law, Pharmacy and Health Services, and a Distinguished Professor at Carlow University. He is a past president of both the American College of Legal Medicine and the American Academy of Forensic Sciences. Dr. Wecht is the author of more than 500 professional publications and has appeared as a guest on numerous national television and radio talk shows. John T. Rago, J.D., is Assistant Professor of Law at Duquesne University School of Law and the Director of both The Cyril H. Wecht Institute of Forensic Science and Law and the Law School's Post-conviction DNA Project. He teaches criminal law and procedure to law students and graduate courses on wrongful convictions, foundations in American law and constitutional criminal procedure to students in the university's Bayer School of Natural and Environmental Sciences. Professor Rago also serves as an appointed member to the Innocence Project's Policy Group of the Cardozo School of Law in New York. He is admitted to practice before the Pennsylvania Supreme Court, the United States Supreme Court, the U.S. Court of Appeals for the Third Circuit and the U.S. District Court for the Western District of Pennsylvania.

### **Chemical Analysis for Forensic Evidence** World Scientific

This book emphasizes the advantages and limitations of using DNA techniques for the presentation of evidence in the courtroom and in the general development of various types of criminal cases. The authors present the material in an understandable manner for use by professionals in the legal system, as well as those in the fields of forensics and law enforcement. Coverage includes: Key terminology used in the field The scientific basis of DNA typing Statistical interpretations of DNA typing A summary of court decisions and admissibility standards  
*Forensic Science and Law* Rand Corporation

Contrary to common intuition that all digits should occur randomly with equal chances in real data, empirical examinations consistently show that not all digits are created equal, but rather that low digits such as {1, 2, 3} occur much more frequently than high digits such as {7, 8, 9} in almost all data types, such as those relating to geology, chemistry, astronomy, physics, and engineering, as well as in accounting, financial, econometrics, and demographics data sets. This intriguing digital phenomenon is known as Benford's Law. This book gives a comprehensive and in-depth account of all the theoretical aspects, results, causes and explanations of Benford's Law, with a strong emphasis on the connection to real-life data and the physical manifestation of the law. In addition to such a bird's eye view of the digital phenomenon, the conceptual distinctions between digits, numbers, and quantities are explored; leading to the key finding that the phenomenon is actually quantitative in nature; originating from the fact that in extreme generality, nature creates many small quantities but very few big quantities, corroborating the motto "small is beautiful", and that therefore all this is applicable just as well to data written in the ancient Roman, Mayan, Egyptian, and other digit-less civilizations. Fraudsters are typically not aware of this digital pattern and tend to invent numbers with approximately equal digital frequencies. The digital analyst can easily check reported data for compliance with this digital law, enabling the detection of tax evasion, Ponzi schemes, and other financial scams. The forensic fraud detection section in this book is written in a very concise and reader-friendly style; gathering all known methods and standards in the accounting and auditing industry; summarizing and fusing them into a singular coherent whole; and can be understood without deep knowledge in statistical theory or advanced mathematics. In addition, a digital algorithm is presented, enabling the auditor to detect fraud even when the sophisticated cheater is aware of the law and invents numbers accordingly. The algorithm employs a subtle inner digital pattern within the Benford's pattern itself. This newly discovered pattern is deemed to be nearly universal, being even more prevalent than the Benford phenomenon, as it is found in all random data sets, Benford as well as non-Benford types. Contents: Benford's Law Forensic Digital Analysis Fraud Detection Data Compliance Tests Conceptual and Mathematical Foundations Benford's Law in the Physical Sciences Topics in Benford's Law The Law of Relative Quantities Readership: Professionals, researchers and serious students of financial and data analysis, forensic accounting, fraud investigation, auditing, mathematics and probability and statistics. Key Features: The book is a concise account of practical applications of the phenomenon of fraud detection and it corrects several errors committed in the field where mistaken applications are used. The perceptive reader interested in knowing about the use of this digital law in fraud detection, would be able to learn about it with a minimal amount of effort and time, without searching through literally hundreds of various small articles on the topic. The book provides numerous new theoretical points-of-view of the phenomenon, new methods for testing data for compliance, and fuses many different aspects of the law into a singular explanation. Keywords: Benford's Law; Digits; Quantities; Relative Quantities; Numbers; Fraud; Fraud Detection; Data; Data Analysis; Forensic Analysis; Pattern; Physics; Chemistry; Geology; Astronomy  
*Computer Applications for Handling Legal Evidence, Police Investigation and Case Argumentation*

Springer

This book provides an overview of the tools and guidance required by Law Enforcement Officers with detailed knowledge about interrogating a suspect in Nigeria... to the collection of conviction-ensuring evidence at a crime scene and... right through to the basics of forensic investigation and the legal rights of the suspects involved. There is analysis of how the concept of Tunnel Vision captures psychology, police investigation and attendant effects on the investigation of crimes. This book not only enumerates the ethics of interrogation, it also provides a valuable and workable information on ethics of crime scene investigations, scientific evidence and rights of suspects.

*Forensic Gait Analysis* CRC Press

The second edition of *Forensic Evidence in Court* updates the original version, which was published in 2007. This edition continues to focus on the use of forensic evidence in criminal trials by examining particular case studies. In addition, it adds two new topics: 1. Computer and Digital Forensics 2. Firearms, Ballistics, and Toolmarks This edition includes several significant developments in the use of forensic evidence at trial since 2007. The first is the U.S. Supreme Court case, *Melendez-Diaz v. Massachusetts*, which established a right under the Confrontation Clause of the U.S. Constitution to cross-examine certain forensic analysts. That case involved an analyst who certified that a substance linked to the defendant was cocaine. This right was subsequently extended to an analyst who performed a blood alcohol test. However, when the Supreme Court was asked to rule on the applicability of this rule to DNA examiners, it stated that the examiner would be required to testify only if the results of the test were "testimonial" in nature. The case has been criticized and some lower courts have subsequently refused to follow it. Another significant development was the release of a report on the scientific reliability of forensic testing in many different areas issued by the National Research Council. The Report, called *Strengthening Forensic Evidence: A Path Forward*, called for more scientific testing and for standardization in qualification of examiners and in laboratory conditions. The only area of forensic examination that the report viewed as scientifically reliable is DNA. Various government agencies have been established to attempt to implement some of these recommendations. Funding is obviously a huge obstacle to implementing many of the recommendations. A development in forensics itself involved the extension of newer technologies in DNA testing, including a process called "Low Copy DNA," which tests quantities previously too small to type as well as DNA test kits that can be used at crime sites. A further development is the expansion of computer hacking, computer fraud and the ubiquitous nature of computers in society. We have added a new chapter to reflect what will continue to be a contentious issue in court-- "proving location and events with digital evidence." Advances in the psychological sciences have results in courts addressing issues of eyewitness testimony. Courts are coming to realize that eyewitness identifications are not as reliable as once thought. As such, courts are struggling with how best to address these issues: through jury instructions, expert testimony, or through some other method. It has come to light that eyewitness identification issues once thought to be within the "ken" of the average juror are most certainly not, and are appropriate for some manner of court intervention. This book can be used in courses for the following degrees: paralegal, criminal justice, sociology, and political science. *Forensic Evidence in Court* is also appropriate for use in a legal specialty course. Assignments include case law research, study of rules of evidence,

how to select and prepare an expert witness, comparison of legal tests used to admit forensic evidence, study of standards used to review admission of forensic experts on appeal, and written work demonstrating critical analysis. Any attorney can teach this course, using the Teacher's Manual and sample assignments. Adjuncts experienced in criminal law or extensive use of expert testimony are particularly well suited. Guest lecturers from state forensic laboratories and state law enforcement forensic investigators give added perspective.

*Inside the Cell* Forensic Evidence

This book provides an expert introduction to audio forensics, an essential specialty in modern forensic science, equipping readers with the fundamental background necessary to understand and participate in this exciting and important field of study. Modern audio forensic analysis combines skills in digital signal processing, the physics of sound propagation, acoustical phonetics, audio engineering, and many other fields. Scientists and engineers who work in the field of audio forensics are called upon to address issues of authenticity, quality enhancement, and signal interpretation for audio evidence that is important to a criminal law enforcement investigation, an accident investigation board, or an official civil inquiry. Expertise in audio forensics has never been more important. In addition to routine recordings from emergency call centers and police radio dispatchers, inexpensive portable audio/video recording systems are now in widespread use. Forensic evidence from the scene of a civil or criminal incident increasingly involves dashboard recorders in police cars, vest-pocket personal recorders worn by law enforcement officers, smart phone recordings from bystanders, and security surveillance systems in public areas and businesses. Utilizing new research findings and both historical and contemporary casework examples, this book blends audio forensic theory and practice in an informative and readable manner suitable for any scientifically-literate reader. Extensive examples, supplementary material, and authoritative references are also included for those who are interested in delving deeper into the field.

*Materials Analysis in Forensic Science* Academic Press

Traditionally, forensic investigation has not been fully utilized in the investigation of property crime. This ground-breaking book examines the experiences of patrol officers, command staff, detectives, and chiefs as they navigate the expectations of forensic evidence in criminal cases, specifically property crimes cases. *DNA and Property Crime Scene Investigation* looks at the current state of forensic technology and, using interviews with police officers, command staff, forensic technicians, and prosecutors, elucidates who is doing the work of forensic investigation. It explores how better training can decrease backlogs in forensic evidence processing and prevent mishandling of crucial evidence. Concluding with a police chief's perspective on the approach, *DNA and Property Crime Scene Investigation* provides insight into an emerging and important approach to property crime scene investigation. Key Features Provides practical information on implementing forensic investigation for property crimes Examines the current state of forensic technology and points to future trends Includes a police chief's perspective on the forensic approach to investigating property crimes Utilizes interviews with professionals in the field to demonstrate the benefits of the approach

*Forensic Gait Analysis* John Wiley & Sons

The interpretation and evaluation of scientific evidence and its presentation in a court of law is

central both to the role of the forensic scientist as an expert witness and to the interests of justice. This book aims to provide a thorough and detailed discussion of the principles and practice of evidence interpretation and evaluation by using real cases by way of illustration. The presentation is appropriate for students of forensic science or related disciplines at advanced undergraduate and master's level or for practitioners engaged in continuing professional development activity. The book is structured in three sections. The first sets the scene by describing and debating the issues around the admissibility and reliability of scientific evidence presented to the court. In the second section, the principles underpinning interpretation and evaluation are explained, including discussion of those formal statistical methods founded on Bayesian inference. The following chapters present perspectives on the evaluation and presentation of evidence in the context of a single type or class of scientific evidence, from DNA to the analysis of documents. For each, the science underpinning the analysis and interpretation of the forensic materials is explained, followed by the presentation of cases which illustrate the variety of approaches that have been taken in providing expert scientific opinion.

Principles of Forensic Audio Analysis Createspace Independent Publishing Platform

This book exposes the dangerously imperfect forensic evidence that we rely on for criminal convictions. "That's not my fingerprint, your honor," said the defendant, after FBI experts reported a "100-percent identification." The FBI was wrong. It is shocking how often they are. *Autopsy of a Crime Lab* is the first book to catalog the sources of error and the faulty science behind a range of well-known forensic evidence, from fingerprints and firearms to forensic algorithms. In this devastating forensic takedown, noted legal expert Brandon L. Garrett poses the questions that should be asked in courtrooms every day: Where are the studies that validate the basic premises of widely accepted techniques such as fingerprinting? How can experts testify with 100-percent certainty about a fingerprint, when there is no such thing as a 100 percent match? Where is the quality control at the crime scenes and in the laboratories? Should we so readily adopt powerful new technologies like facial recognition software and rapid DNA machines? And why have judges been so reluctant to consider the weaknesses of so many long-accepted methods? Taking us into the lives of the wrongfully convicted or nearly convicted, into crime labs rocked by scandal, and onto the front lines of promising reform efforts driven by professionals and researchers alike, *Autopsy of a Crime Lab* illustrates the persistence and perniciousness of shaky science and its well-meaning practitioners.

Crime Scene Management within Forensic Science CRC Press

One of the greatest challenges encountered by those in the forensic sciences is anticipating what the state and federal courts will – or will not – allow as valid physical evidence. With this in mind, the author of *Forensic Evidence: Science and the Criminal Law, Second Edition* analyzes and explains the judicial system's response to the applicability of forensic science in the investigation, prosecution, and defense of criminal activity. Each chapter of this comprehensive yet accessible resource provides an overview and analysis of the scientific and legal aspects of a particular forensic discipline. An important new feature of this second edition is that each chapter focuses on discussions of recent forensics literature reviews from Interpol's 14th Annual Forensic Science Symposium. This latest edition also updates previously discussed cases and presents the most

recent applications of the Frye and Daubert standards, the admissibility of eyewitness identification, the upsurge of cases and statutes that involve post-conviction DNA, and the increased interest in re-examining cold cases. As challenges to forensic evidence become increasingly rigorous, so does the need for intense preparation. *Forensic Evidence: Science and the Criminal Law, Second Edition* is the book that those in the forensic sciences need to have on hand to successfully prepare for what may await them in the courtroom.

*Crime Scene Forensics* Academic Press

*Fundamentals of Forensic Science, Third Edition*, provides current case studies that reflect the ways professional forensic scientists work, not how forensic academicians teach. The book includes the binding principles of forensic science, including the relationships between people, places, and things as demonstrated by transferred evidence, the context of those people, places, and things, and the meaningfulness of the physical evidence discovered, along with its value in the justice system. Written by two of the leading experts in forensic science today, the book approaches the field from a truly unique and exciting perspective, giving readers a new understanding and appreciation for crime scenes as recent pieces of history, each with evidence that tells a story. Straightforward organization that includes key terms, numerous feature boxes emphasizing online resources, historical events, and figures in forensic science Compelling, actual cases are included at the start of each chapter to illustrate the principles being covered Effective training, including end-of-chapter questions – paired with a clear writing style making this an invaluable resource for professors and students of forensic science Over 250 vivid, color illustrations that diagram key concepts and depict evidence encountered in the field

**Emerging Technologies for the Analysis of Forensic Traces** Springer

This book provides a line of communication between academia and end users/practitioners to advance forensic science and boost its contribution to criminal investigations and court cases. By covering the state of the art of promising technologies for the analysis of trace evidence using a controlled vocabulary, this book targets the forensics community as well as, crucially, informing the end users on novel and potential forensic opportunities for the fight against crime. By reporting end users commentaries at the end of each chapter, the relevant academic community is provided with clear indications on where to direct further technological developments in order to meet the law requirements for operational deployment, as well as the specific needs of the end users. Promising chemistry based technologies and analytical techniques as well as techniques that have already shown to various degrees an operational character are covered. The majority of the techniques covered have imaging capabilities, that is the ability to visualize the distribution of the target molecules within the trace evidence recovered. This feature enhances intelligibility of the information making it also accessible to a lay audience such as that typically found with a court jury. Trace evidence discussed in this book include fingermarks, bodily fluids, hair, gunshot residues, soil, ink and questioned documents thus covering a wide range of possible evidence recovered at crime scenes.

*Scientific and Legal Applications of Bloodstain Pattern Interpretation* CRC Press

*Forensic Science Reform: Protecting the Innocent* is written for the nonscientist to help make complicated scientific information clear and concise enough for attorneys and judges to master. This

volume covers physical forensic science, namely arson, shaken baby syndrome, non-accidental trauma, bite marks, DNA, ballistics, comparative bullet lead analysis, fingerprint analysis, and hair and fiber analysis, and contains valuable contributions from leading experts in the field of forensic science. Offers training for prosecuting attorneys on the present state of the forensic sciences in order to avoid reliance on legal precedent that lags decades behind the science Provides defense attorneys the knowledge to defend their clients against flawed science Arms innocence projects and appellate attorneys with the latest information to challenge convictions that were obtained using faulty science Uses science-specific case studies to simplify issues in forensic science for the legal professional Offers a detailed overview of both the failures and progress made in the forensic sciences, making the volume ideal for law school courses covering wrongful convictions, or for undergraduate courses on law, legal ethics, or forensics

Forensic Fraud CRC Press

Forensic EvidenceCRC Press

Handbook of Forensic Drug Analysis Academic Press

The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. With chapters written by leading researchers in the field, the book provides in-depth, up-to-date methods and results of forensic drug analyses. This Handbook discusses various forms of the drug as well as the origin and nature of samples. It explains how to perform various tests, the use of best practices, and the analysis of results. Numerous forensic and chemical analytic techniques are covered including immunoassay, gas chromatography, and mass spectrometry. Topics range from the use of immunoassay technologies for drugs-of-abuse testing, to methods of forensic analysis for cannabis, hallucinogens, cocaine, opioids, and amphetamine. The book also looks at synthetic methods and law enforcement concerns regarding the manufacture of illicit drugs, with an emphasis on clandestine methamphetamine production. This Handbook should serve as a widely used reference for forensic scientists, toxicologists, pharmacologists, drug companies, and professionals working in toxicology testing labs, libraries, and poison control centers. It may also be used by chemists, physicians and those in legal and regulatory professions, and students of graduate courses in forensic science. Contributed to by leading scientists from around the world The only analysis book dedicated to illicit drugs of abuse Comprehensive coverage of sampling methods and various forms of analysis

**Challenges and Choices for Crime-Fighting Technology Federal Support of State and Local Law Enforcement** John Wiley & Sons

Forensic Criminology gives students of criminology and criminal justice an introduction to the forensic realm and the applied forensic issues they will face when working cases within the justice system. It effectively bridges the theoretical world of social criminology with the applied world of the criminal justice system. While most of the competing textbooks on criminology adequately address the application and the social theory to the criminal justice system, the vast majority do not include casework or real-world issues that criminologists face. This book focuses on navigating casework in forensic contexts by case-working criminologists, rather than broad social theory. It also allows criminology/criminal justice instructors outside of the forensic sciences the ability to develop and instruct a core course that might otherwise be considered beyond their expertise, or in conflict with

forensic courses taught in chemistry, biology, or medical programs at their institutions because of its focus on criminology and criminal justice careers. With its practical approach, this textbook is well-suited for forensic criminology subjects being taught and developed in law, criminology, and criminal justice programs around the world. Approaches the study of criminology from an applied standpoint, moving away from the purely theoretical Contains relevant and contemporary case examples to demonstrate the application of forensic criminology Provides an integrated philosophy with respect to criminology, forensic casework, criminal investigations, and the law Useful for students and professionals in the area of criminology, criminal justice, criminal investigation, forensic science, and the law

*DNA and Property Crime Scene Investigation* Elsevier

Chemical Analysis for Forensic Evidence provides readers with the fundamental framework of forensic analytical chemistry, describing the entire process, from crime scene investigation to evidence sampling, laboratory analysis, quality aspects, and reporting and testifying in court. In doing so, important principles and aspects are demonstrated through the various forensic expertise areas in which analytical chemistry plays a key role, including illicit drugs, explosives, toxicology, fire debris analysis and microtraces such as gunshot residues, glass and fibers. This book illuminates the underlying practical framework that governs how analytical chemistry is used in practice by forensic experts to solve crime. Arian van Asten utilizes a hands-on approach with numerous questions, examples, exercises and illustrations to help solidify key concepts and teach them in an engaging way. Provides a forensic analytical chemistry framework based on how professionals actually use chemistry to solve crimes Introduces leading principles necessary to forensic practice understanding Answers key questions with a wealth of illustrations and real-world examples

**Strengthening Forensic Science in the United States** Univ of California Press

Welcome to the Second Edition of the best selling book Forensic Science Crime Scene Analysis. The Second Edition has been completely revised, updated and greatly expanded. It is now more than twice the size of the original book with extra sections on forensic photography, blood spatter analysis, trace evidence, impressions, ballistics, bomb-making, explosives, toxicology, digital evidence, search warrants, forensic computer investigation, DNA testing and advances, Miranda rights, police interrogation techniques, and the law relating to the admissibility of confessions. There is also a much extended Glossary and complete new chapters on the Admissibility of Expert Evidence and Criminal Law Evidence. So, just how accurate are TV crime programs like CSI? Apparently, they are far removed from reality and mask the clear division of labor which exists between crime scene investigators and law enforcement officers. The first part of the book deals with crime scene analysis, what happens at a crime scene, or what's supposed to happen and covers every aspect of crime scene investigation. The second part is an introduction to forensic science and deals with such diverse topics as fingerprints, firearms, computers, autopsies, forensic pathology, poisons, the identification of decaying bodies and skeletons, cranio-facial reconstruction, serology, fraud, DNA and cyber crime. But perhaps the most enjoyable chapter is the tongue in cheek one entitled Committing the Perfect Crime. A perfect book for law enforcement officers, criminal lawyers, crime writers and basically anyone interested in crime.--Back cover.

Forensic Science Academic Press

Forensic Gait Analysis examines the inter-section of podiatric medicine with forensic investigation—that which links or dissociates a suspect to a crime through analysis of their gait, that is their movement—how an individual walks, runs, and bends. This book provides a concise explanation of how an individual's gait and biomechanics are forensically analysed and compared, using video imagery in the process of human identification and investigations. Along with the presentation and delivery of material with case law references illustrating the use of expert evidence. Gait analysis is a long-standing component of the diagnostic and therapeutic tool set of medical disciplines, although the knowledge goes back much further. The area has also captured the interest of technology engineers and others, as the development and use of forensic gait analysis as an investigative and evidential device continues to widen. Features:

- Presents succinct knowledge on forensic gait analysis.
- 100+ illustrations with photographs and diagrams; over 850 references.
- Considers the technical and scientific basis of the field including, the history of gait, musculoskeletal, neurology, emotions and gait, forensic statistics, photogrammetry, and recognises the trajectory of development into IT and software solutions.
- Coverage on CCTV imagery and other video footage for use in the process of identification and investigations.
- Details are provided on report writing and giving expert evidence in the legal systems.
- Contributors across all subject

areas. This definitive fully referenced text on Forensic Gait Analysis is a welcome publication for healthcare professionals, lawyers, counsel, investigators, forensic practitioners, and students wishing to know more on the subject and this growing domain.

*The Evaluation of Forensic DNA Evidence* CRC Press

Materials Analysis in Forensic Science will serve as a graduate level text for those studying and teaching materials analysis in forensic science. In addition, it will prove an excellent library reference for forensic practitioners to use in their casework. Coverage includes methods, textiles, explosives, glass, coatings, geo-and bio-materials, and marks and impressions, as well as information on various other materials and professional issues the reader may encounter. Edited by a world-renowned leading forensic expert, the book is a long overdue solution for the forensic science community. Provides basic principles of forensic science and an overview of materials analysis Contains information on a wide variety of trace evidence Covers methods, textiles, explosives, glass, coatings, geo-and bio-materials, and marks and impressions, as well as various other materials Includes a section on professional issues, such as discussions of the crime scene to court process, lab reports, health and safety, and field deployable devices Incorporates effective pedagogy, key terms, review questions, discussion questions, and additional reading suggestions

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