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Linked Data

Evolving the Web into a Global Data Space

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Linked Data Evolving The Web Into A Global Data Space Christian Bizer

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Linked Data Evolving The Web Into A Global Data Space Christian Bizer:

Linked Data Tom Heath,Christian Bizer,2011-02-02 The World Wide Web has enabled the creation of a global information space comprising linked documents As the Web becomes ever more enmeshed with our daily lives there is a growing desire for direct access to raw data not currently available on the Web or bound up in hypertext documents Linked Data provides a publishing paradigm in which not only documents but also data can be a first class citizen of the Web thereby enabling the extension of the Web with a global data space based on open standards the Web of Data In this Synthesis lecture we provide readers with a detailed technical introduction to Linked Data We begin by outlining the basic principles of Linked Data including coverage of relevant aspects of Web architecture The remainder of the text is based around two main themes the publication and consumption of Linked Data Drawing on a practical Linked Data scenario we provide guidance and best practices on architectural approaches to publishing Linked Data choosing URIs and vocabularies to identify and describe resources deciding what data to return in a description of a resource on the Web methods and frameworks for automated linking of data sets and testing and debugging approaches for Linked Data deployments We give an overview of existing Linked Data applications and then examine the architectures that are used to consume Linked Data from the Web alongside existing tools and frameworks that enable these Readers can expect to gain a rich technical understanding of Linked Data fundamentals as the basis for application development research or further study Table of Contents List of Figures Introduction Principles of Linked Data The Web of Data Linked Data Design Considerations Recipes for Publishing Linked Data Consuming Linked Data Summary and Outlook   **Validating RDF Data** Jose Emilio Labra Gayo,Eric Prud'hommeaux,Iovka Boneva,Dimitris Kontokostas,2022-05-31 RDF and Linked Data have broad applicability across many fields from aircraft manufacturing to zoology Requirements for detecting bad data differ across communities fields and tasks but nearly all involve some form of data validation This book introduces data validation and describes its practical use in day to day data exchange The Semantic Web offers a bold new take on how to organize distribute index and share data Using Web addresses URIs as identifiers for data elements enables the construction of distributed databases on a global scale Like the Web the Semantic Web is heralded as an information revolution and also like the Web it is encumbered by data quality issues The quality of Semantic Web data is compromised by the lack of resources for data curation for maintenance and for developing globally applicable data models At the enterprise scale these problems have conventional solutions Master data management provides an enterprise wide vocabulary while constraint languages capture and enforce data structures Filling a need long recognized by Semantic Web users shapes languages provide models and vocabularies for expressing such structural constraints This book describes two technologies for RDF validation Shape Expressions ShEx and Shapes Constraint Language SHACL the rationales for their designs a comparison of the two and some example applications

   Knowledge Graphs Aidan Hogan,Eva Blomqvist,Michael Cochez,Claudia d'Amato,Gerard de Melo,Claudio

Gutierrez,Sabrina Kirrane,Jose Emilio Labra Gayo,Roberto Navigli,Sebastian Neumaier,Axel Polleres,Sabbir Rashid,Anisa Rula,Antoine Zimmermann,Lukas Schmelzeisen,Axel-Cyrille Ngonga Ngomo,Juan Sequeda,Steffen Staab,2022-06-01 This book provides a comprehensive and accessible introduction to knowledge graphs which have recently garnered notable attention from both industry and academia Knowledge graphs are founded on the principle of applying a graph based abstraction to data and are now broadly deployed in scenarios that require integrating and extracting value from multiple diverse sources of data at large scale The book defines knowledge graphs and provides a high level overview of how they are used It presents and contrasts popular graph models that are commonly used to represent data as graphs and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema identity and context The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques based on statistics graph analytics machine learning etc can be used to encode and extract knowledge It covers techniques for the creation enrichment assessment and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve This book is aimed at students researchers and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale To make the book accessible for newcomers running examples and graphical notation are used throughout Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics **Social Semantic Web Mining** Tope Omitola,Sebastián A. Ríos,John G. Breslin,2022-06-01 The past ten years have seen a rapid growth in the numbers of people signing up to use Web based social networks hundreds of millions of new members are now joining the main services each year with a large amount of content being shared on these networks tens of billions of content items are shared each month With this growth in usage and data being generated there are many opportunities to discover the knowledge that is often inherent but somewhat hidden in these networks Web mining techniques are being used to derive this hidden knowledge In addition the Semantic Web including the Linked Data initiative to connect previously disconnected datasets is making it possible to connect data from across various social spaces through common representations and agreed upon terms for people content items etc In this book we detail some current research being carried out to semantically represent the implicit and explicit structures on the Social Web along with the techniques being used to elicit relevant knowledge from these structures and we present the mechanisms that can be used to intelligently mesh these semantic representations with intelligent knowledge discovery processes We begin this book with an overview of the origins of the Web and then show how web intelligence can be derived from a combination of web and Social Web mining We give an overview of the Social and Semantic Webs followed by a description of the combined Social Semantic Web along with some of the possibilities it affords and the various semantic representation

formats for the data created in social networks and on social media sites Provenance and provenance mining is an important aspect here especially when data is combined from multiple services We will expand on the subject of provenance and especially its importance in relation to social data We will describe extensions to social semantic vocabularies specifically designed for community mining purposes SIOCM In the last three chapters we describe how the combination of web intelligence and social semantic data can be used to derive knowledge from the Social Web starting at the community level macro and then moving through group mining meso to user profile mining micro **The Oxford Handbook of the International Law of Global Security** Robin Geiß,Nils Melzer,2021-02-16 Understanding the global security environment and delivering the necessary governance responses is a central challenge of the 21st century On a global scale the central regulatory tool for such responses is public international law But what is the state role and relevance of public international law in today s complex and highly dynamic global security environment Which concepts of security are anchored in international law How is the global security environment shaping international law and how is international law in turn influencing other normative frameworks The Oxford Handbook of the International Law of Global Security provides a ground breaking overview of the relationship between international law and global security It constitutes a comprehensive and systematic mapping of the various sub fields of international law dealing with global security challenges and offers authoritative guidance on key trends and debates around the relationship between public international law and global security governance This Handbook highlights the central role of public international law in an effective global security architecture and in doing so addresses some of the most pressing legal and policy challenges of our time The Handbook features original contributions by leading scholars and practitioners from a wide range of professional and disciplinary backgrounds reflecting the fluidity of the concept of global security and the diversity of scholarship in this area **Library Information Systems** Joseph R. Matthews,Carson Block,2019-11-11 Information systems are central to libraries and managing information systems is critical to serving library communities Both a textbook for LIS courses and a handbook for practitioners this volume thoroughly addresses modern libraries challenges of integrating information technology Written by Joseph R Matthews and Carson Block both experts on library information systems this book describes the evolution of library information systems their enabling technologies and today s dynamic IT marketplace It explains specific technologies and related topics including standards and standards organizations telecommunications and networks integrated library systems electronic resource management systems repositories authentication and link verification electronic resources and nextgen library systems Readers will also learn the latest about information systems management covering technology planning basic technology axioms the impact of technology on library services system selection and implementation system usability and general technology management The final section considers current trends and future developments in LIS including those related to mobile devices and apps as well as the growth of digital libraries **Decentralized Query Processing over**

Heterogeneous Sources of Knowledge Graphs Lars Heling,2022-03-15 Knowledge graphs are increasingly used in scientific and industrial applications The large number and size of knowledge graphs published as Linked Data in autonomous sources has led to the development of various interfaces to query these knowledge graphs Therefore effective query processing approaches that enable efficient information retrieval from these knowledge graphs need to address the capabilities and limitations of different Linked Data Fragment interfaces This book investigates novel approaches to addressing the challenges that arise in the presence of decentralized heterogeneous sources of knowledge graphs The effectiveness of these approaches is empirically evaluated and demonstrated using various real world and synthetic large scale knowledge graphs throughout First a sample based approach for generating fine grained performance profiles is proposed and it is demonstrated how the information from such profiles can be leveraged in cost model based query planning In addition a sample based data distribution profiling approach is advocated which aims to estimate the statistical profile features of large knowledge graphs and the applicability of these estimations in federated querying processing is demonstrated The remainder of the book focuses on techniques to devise efficient query processing approaches when heterogeneous interfaces need to be queried but no fine grained statistics are available Robust techniques to support efficient query processing in these circumstances are investigated and results are shared to demonstrate the way in which these techniques can outperform state of the art approaches Finally the author describes a framework for federated query processing over heterogeneous federations of Linked Data Fragments to exploit the capabilities of different sources by defining interface aware approaches   **Semantic Breakthrough in Drug Discovery** Bin Chen,Huijun Wang,Ying Ding,David Wild,2022-06-01 The current drug development paradigm sometimes expressed as One disease one target one drug is under question as relatively few drugs have reached the market in the last two decades Meanwhile the research focus of drug discovery is being placed on the study of drug action on biological systems as a whole rather than on individual components of such systems The vast amount of biological information about genes and proteins and their modulation by small molecules is pushing drug discovery to its next critical steps involving the integration of chemical knowledge with these biological databases Systematic integration of these heterogeneous datasets and the provision of algorithms to mine the integrated datasets would enable investigation of the complex mechanisms of drug action however traditional approaches face challenges in the representation and integration of multi scale datasets and in the discovery of underlying knowledge in the integrated datasets The Semantic Web envisioned to enable machines to understand and respond to complex human requests and to retrieve relevant yet distributed data has the potential to trigger system level chemical biological innovations Chem2Bio2RDF is presented as an example of utilizing Semantic Web technologies to enable intelligent analyses for drug discovery Table of Contents Introduction Data Representation and Integration Using RDF Data Representation and Integration Using OWL Finding Complex Biological Relationships in PubMed Articles using Bio LDA Integrated Semantic

Approach for Systems Chemical Biology Knowledge Discovery Semantic Link Association Prediction Conclusions References Authors Biographies **Semantics in Mobile Sensing** Zhixian Yan,Dipanjan Chakraborty,2022-06-01 The dramatic progress of smartphone technologies has ushered in a new era of mobile sensing where traditional wearable on body sensors are being rapidly superseded by various embedded sensors in our smartphones For example a typical smartphone today has at the very least a GPS WiFi Bluetooth triaxial accelerometer and gyroscope Alongside new accessories are emerging such as proximity magnetometer barometer temperature and pressure sensors Even the default microphone can act as an acoustic sensor to track noise exposure for example These sensors act as a lens to understand the user s context along different dimensions Data can be passively collected from these sensors without interrupting the user As a result this new era of mobile sensing has fueled significant interest in understanding what can be extracted from such sensor data both instantaneously as well as considering volumes of time series from these sensors For example GPS logs can be used to determine automatically the significant places associated to a user s life e g home office shopping areas The logs may also reveal travel patterns and how a user moves from one place to another e g driving or using public transport These may be used to proactively inform the user about delays relevant promotions from shops in his regular route Similarly accelerometer logs can be used to measure a user s average walking speed compute step counts gait identification and estimate calories burnt per day The key objective is to provide better services to end users The objective of this book is to inform the reader of the methodologies and techniques for extracting meaningful information called semantics from sensors on our smartphones These techniques form the cornerstone of several application areas utilizing smartphone sensor data We discuss technical challenges and algorithmic solutions for modeling and mining knowledge from smartphone resident sensor data streams This book devotes two chapters to dive deep into a set of highly available commoditized sensors the positioning sensor GPS and motion sensor accelerometer Furthermore this book has a chapter devoted to energy efficient computation of semantics as battery life is a major concern on user experience **Incentive-Centric Semantic Web Application Engineering** Elena Simperl,Roberta Cuel,Martin Stein,2022-06-01 While many Web 2 0 inspired approaches to semantic content authoring do acknowledge motivation and incentives as the main drivers of user involvement the amount of useful human contributions actually available will always remain a scarce resource Complementarily there are aspects of semantic content authoring in which automatic techniques have proven to perform reliably and the added value of human and collective intelligence is often a question of cost and timing The challenge that this book attempts to tackle is how these two approaches machine and human driven computation could be combined in order to improve the cost performance ratio of creating managing and meaningfully using semantic content To do so we need to first understand how theories and practices from social sciences and economics about user behavior and incentives could be applied to semantic content authoring We will introduce a methodology to help software designers to embed incentives minded functionalities into semantic applications as well as best

practices and guidelines We will present several examples of such applications addressing tasks such as ontology management media annotation and information extraction which have been built with these considerations in mind These examples illustrate key design issues of incentivized Semantic Web applications that might have a significant effect on the success and sustainable development of the applications the suitability of the task and knowledge domain to the intended audience and the mechanisms set up to ensure high quality contributions and extensive user involvement Table of Contents Semantic Data Management A Human driven Process Fundamentals of Motivation and Incentives Case Study Motivating Employees to Annotate Content Case Study Building a Community of Practice Around Web Service Management and Annotation Case Study Games with a Purpose for Semantic Content Creation Conclusions **Digitised Newspapers – A New Eldorado for Historians?** Estelle Bunout,Maud Ehrmann,Frédéric Clavert,2022-12-31 The application of digital technologies to historical newspapers has changed the research landscape historians were used to An Eldorado Despite undeniable advantages the new digital affordance of historical newspapers also transforms research practices and confronts historians with new challenges Drawing on a growing community of practices the impresso project invited scholars experienced with digitised newspaper collections with the aim of encouraging a discussion on heuristics source criticism and interpretation of digitized newspapers This volume provides a snapshot of current research on the subject and offers three perspectives how digitisation is transforming access to and exploration of historical newspaper collections how automatic content processing allows for the creation of new layers of information and finally what analyses this enhanced material opens up impresso Media Monitoring of the Past is an interdisciplinary research project that applies text mining tools to digitised historical newspapers and integrates the resulting data into historical research workflows by means of a newly developed user interface The question of how best to adapt text mining tools and their use by humanities researchers is at the heart of the impresso enterprise *Proceedings of the 6th Ph.D. Retreat of the HPI Research School on Service-oriented Systems Engineering* Meinel, Christoph,Plattner, Hasso,Döllner, Jürgen,Weske, Mathias,Polze, Andreas,Hirschfeld, Robert,Naumann, Felix,Giese, Holger,Baudisch, Patrick,2013 *Semantic Mining of Social Networks* Jie Tang,Juanzi Li,2022-06-01 Online social networks have already become a bridge connecting our physical daily life with the web based information space This connection produces a huge volume of data not only about the information itself but also about user behavior The ubiquity of the social Web and the wealth of social data offer us unprecedented opportunities for studying the interaction patterns among users so as to understand the dynamic mechanisms underlying different networks something that was previously difficult to explore due to the lack of available data In this book we present the architecture of the research for social network mining from a microscopic point of view We focus on investigating several key issues in social networks Specifically we begin with analytics of social interactions between users The first kinds of questions we try to answer are What are the fundamental factors that form the different categories of social ties How have reciprocal relationships been

developed from parasocial relationships How do connected users further form groups Another theme addressed in this book is the study of social influence Social influence occurs when one s opinions emotions or behaviors are affected by others intentionally or unintentionally Considerable research has been conducted to verify the existence of social influence in various networks However few literature studies address how to quantify the strength of influence between users from different aspects In Chapter 4 and in 138 we have studied how to model and predict user behaviors One fundamental problem is distinguishing the effects of different social factors such as social influence homophily and individual s characteristics We introduce a probabilistic model to address this problem Finally we use an academic social network ArnetMiner as an example to demonstrate how we apply the introduced technologies for mining real social networks In this system we try to mine knowledge from both the informative publication network and the social collaboration network and to understand the interaction mechanisms between the two networks The system has been in operation since 2006 and has already attracted millions of users from more than 220 countries regions   Natural Language Processing for the Semantic Web Diana Maynard,Kalina Bontcheva,Isabelle Augenstein,2022-05-31 This book introduces core natural language processing NLP technologies to non experts in an easily accessible way as a series of building blocks that lead the user to understand key technologies why they are required and how to integrate them into Semantic Web applications Natural language processing and Semantic Web technologies have different but complementary roles in data management Combining these two technologies enables structured and unstructured data to merge seamlessly Semantic Web technologies aim to convert unstructured data to meaningful representations which benefit enormously from the use of NLP technologies thereby enabling applications such as connecting text to Linked Open Data connecting texts to each other semantic searching information visualization and modeling of user behavior in online networks The first half of this book describes the basic NLP processing tools tokenization part of speech tagging and morphological analysis in addition to the main tools required for an information extraction system named entity recognition and relation extraction which build on these components The second half of the book explains how Semantic Web and NLP technologies can enhance each other for example via semantic annotation ontology linking and population These chapters also discuss sentiment analysis a key component in making sense of textual data and the difficulties of performing NLP on social media as well as some proposed solutions The book finishes by investigating some applications of these tools focusing on semantic search and visualization modeling user behavior and an outlook on the future   *The Epistemology of Intelligent Semantic Web Systems* Mathieu d'Aquin,Enrico Motta,2022-05-31 The Semantic Web is a young discipline even if only in comparison to other areas of computer science Nonetheless it already exhibits an interesting history and evolution This book is a reflection on this evolution aiming to take a snapshot of where we are at this specific point in time and also showing what might be the focus of future research This book provides both a conceptual and practical view of this evolution especially targeted at readers who are starting research in this area and as

support material for their supervisors From a conceptual point of view it highlights and discusses key questions that have animated the research community what does it mean to be a Semantic Web system and how is it different from other types of systems such as knowledge systems or web based information systems From a more practical point of view the core of the book introduces a simple conceptual framework which characterizes Intelligent Semantic Web Systems We describe this framework the components it includes and give pointers to some of the approaches and technologies that might be used to implement them We also look in detail at concrete systems falling under the category of Intelligent Semantic Web Systems according to the proposed framework allowing us to compare them analyze their strengths and weaknesses and identify the key fundamental challenges still open for researchers to tackle   **The Organization of Information** Daniel N. Joudrey,2025-09-04 Organizing information is at the heart of the information professions and the fifth edition of The Organization of Information is a key resource for anyone seeking up to date guidance For millennia information organization has been central to the functioning of libraries and other information institutions The fifth edition of The Organization of Information provides a timely detailed introduction to organizing in a variety of information contexts including library cataloging archival description indexing museum registration metadata creation for digital collections organizing on the web linked data and the development of the Semantic Web Examining how and why information professionals organize information in contemporary libraries archives museums and in a variety of online settings expert Daniel N Joudrey addresses the types of retrieval tools used throughout information organizations the functionality of information systems and the role and effect of technology on information organization A discussion of encoding follows explaining the basics of the MARC format several XML schemas and the developing BIBFRAME standard A section on the principles and functionality of metadata covers metadata types metadata characteristics and tools used to manage metadata projects A timely new chapter on conceptual models and frameworks articulates the visions behind the Library Reference Model LRM Records in Contexts RiC and the Semantic Web including a discussion of RDF as its underlying structural model Finally the latter portion of the book describes practices related to the creation of descriptive metadata Providing a thorough overview of the field s major issues challenges and standards The Organization of Information is an essential resource for students in library and information science programs as well as for established professionals who want to refresh their knowledge of the latest developments in the field   Designing and Building Enterprise Knowledge Graphs Juan Sequeda,Ora Lassila,2022-05-31 This book is a guide to designing and building knowledge graphs from enterprise relational databases in practice It presents a principled framework centered on mapping patterns to connect relational databases with knowledge graphs the roles within an organization responsible for the knowledge graph and the process that combines data and people The content of this book is applicable to knowledge graphs being built either with property graph or RDF graph technologies Knowledge graphs are fulfilling the vision of creating intelligent systems that integrate knowledge and data at large scale Tech giants

have adopted knowledge graphs for the foundation of next generation enterprise data and metadata management search recommendation analytics intelligent agents and more We are now observing an increasing number of enterprises that seek to adopt knowledge graphs to develop a competitive edge In order for enterprises to design and build knowledge graphs they need to understand the critical data stored in relational databases How can enterprises successfully adopt knowledge graphs to integrate data and knowledge without boiling the ocean This book provides the answers *Theoretical Perspectives on Terminology* Pamela Faber,Marie-Claude L'Homme,2022-06-15 The aim of this volume is to provide an overview of different theoretical perspectives on Terminology from W ster to other initiatives that have emerged since the beginning of the 1990s The volume also covers important topics which have significantly influenced Terminology and its evolution These include variation multidimensionality conceptual relations and equivalence among others The twenty two chapters of the volume all written by acknowledged experts in the field explore the questions that different approaches seek to answer They also describe the theoretical and methodological principles that were devised over the years to characterize analyze and represent terminological data The semi chronological semi thematic organization of chapters not only provides readers with a clear vision of the evolution of ideas in Terminology but also gives them an understanding as to why some of these ideas were initially challenged In addition to being accessible to readers unfamiliar with the basic theoretical principles in the field the chapters provide a showcase of current research in the field the challenges looming on the horizon and finally future directions in terminological research By bringing together work that is often disseminated in different forums and written in different languages this volume provides a unique opportunity to look at how different theoretical approaches to Terminology offer complementary perspectives on terms concepts and specialized knowledge and help to further a better understanding of the complex phenomena that terminologists must successfully deal with in their work Modelling Web-based Learning Ecosystems for Aggregation and Reuse Kai Michael Höver,2015-04-28 In der E Learning Dom ne bilden sowohl die Lernressourcen Lehrende und Lernende als auch die stattfindenden Lernprozesse in ihrer Gesamtheit Lern kosysteme Diese Dissertation untersucht die Modellierung von Lern kosystemen zur Unterst tzung ihrer Aggregation und Wiederverwendung Zur Erreichung dieses Ziels m ssen Modelle von Lern kosystemen die Aggregierbarkeit Austauschbarkeit Interoperabilit t und granulare Wiederverwendbarkeit ihrer Daten unterst tzen Auf Basis durchgef hrter Nutzerstudien werden Konzepte digitaler Modelle von Lern kosystemen sogenannte LOOCs Linked Open Online Courses entwickelt Dabei werden insbesondere Technologien des Semantic Webs sowie Linked Data Konzepte betrachtet Die entwickelten ontologischen Modelle bilden die Basis f r mehrere E Learning Applikationen welche die Tragf higkeit der Konzepte sowie eine hohe Nutzerakzeptanz zeigen Ferner wird ein formales Interpretermodell f r CSCL Computer Supported Collaborative Learning Scripts zur Beschreibung von Lernprozessen welches mit Hilfe von Abstract State Machines spezifiziert wurde vorgestellt In the e learning domain the learning resources teachers and learners and the active learning processes in their entirety

construct the learning ecosystems This thesis examines the modelling of learning ecosystems to support their aggregation and reuse To achieve this goal learning ecosystem models must support aggregation compatibility interoperability and granular re usability of their data Through user studies digital model concepts of learning ecosystems i e so called LOOCs linked open online courses were developed In particular Semantic Web technologies and Linked Data concepts are considered within the context The developed ontological models form the basis for a number of e learning applications that show the viability of the concepts as well as a high user acceptance Further a formal interpreter model for CSCL Computer Supported Collaborative Learning Scripts for the description of learning processes specified by using Abstract State Machines is presented   Ontology Engineering Elisa F. Kendall,Deborah L. McGuinness,2022-05-31 Ontologies have become increasingly important as the use of knowledge graphs machine learning natural language processing NLP and the amount of data generated on a daily basis has exploded As of 2014 90% of the data in the digital universe was generated in the two years prior and the volume of data was projected to grow from 3 2 zettabytes to 40 zettabytes in the next six years The very real issues that government research and commercial organizations are facing in order to sift through this amount of information to support decision making alone mandate increasing automation Yet the data profiling NLP and learning algorithms that are ground zero for data integration manipulation and search provide less than satisfactory results unless they utilize terms with unambiguous semantics such as those found in ontologies and well formed rule sets Ontologies can provide a rich schema for the knowledge graphs underlying these technologies as well as the terminological and semantic basis for dramatic improvements in results Many ontology projects fail however due at least in part to a lack of discipline in the development process This book motivated by the Ontology 101 tutorial given for many years at what was originally the Semantic Technology Conference SemTech and then later from a semester long university class is designed to provide the foundations for ontology engineering The book can serve as a course textbook or a primer for all those interested in ontologies

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