

THIRD EDITION

Semantic Web for the Working Ontologist

*Effective Modeling for
Linked Data, RDFS, and OWL*

Dean Allemang
James Hendler
Fabien Gandon



ASSOCIATION FOR COMPUTING MACHINERY

Semantic Web For The Working Ontologist Effective Modeling In Rdfs And Owl Dean Allemang

Toby Segaran, Colin Evans, Jamie Taylor



Semantic Web For The Working Ontologist Effective Modeling In Rdfs And Owl Dean Allemang

Semantic Web for the Working Ontologist James Hendler, Fabien Gandon, Dean Allemang, 2020-08-03 Enterprises have made amazing advances by taking advantage of data about their business to provide predictions and understanding of their customers markets and products But as the world of business becomes more interconnected and global enterprise data is no long a monolith it is just a part of a vast web of data Managing data on a world wide scale is a key capability for any business today The Semantic Web treats data as a distributed resource on the scale of the World Wide Web and incorporates features to address the challenges of massive data distribution as part of its basic design The aim of the first two editions was to motivate the Semantic Web technology stack from end to end to describe not only what the Semantic Web standards are and how they work but also what their goals are and why they were designed as they are It tells a coherent story from beginning to end of how the standards work to manage a world wide distributed web of knowledge in a meaningful way The third edition builds on this foundation to bring Semantic Web practice to enterprise Fabien Gandon joins Dean Allemang and Jim Hendler bringing with him years of experience in global linked data to open up the story to a modern view of global linked data While the overall story is the same the examples have been brought up to date and applied in a modern setting where enterprise and global data come together as a living linked network of data Also included with the third edition all of the data sets and queries are available online for study and experimentation at data.world.swwo

Semantic Web for the Working Ontologist Dean Allemang, James Hendler, 2011-07-05 *Semantic Web for the Working Ontologist Effective Modeling in RDFS and OWL Second Edition* discusses the capabilities of Semantic Web modeling languages such as RDFS Resource Description Framework Schema and OWL Web Ontology Language Organized into 16 chapters the book provides examples to illustrate the use of Semantic Web technologies in solving common modeling problems It uses the life and works of William Shakespeare to demonstrate some of the most basic capabilities of the Semantic Web The book first provides an overview of the Semantic Web and aspects of the Web It then discusses semantic modeling and how it can support the development from chaotic information gathering to one characterized by information sharing cooperation and collaboration It also explains the use of RDF to implement the Semantic Web by allowing information to be distributed over the Web along with the use of SPARQL to access RDF data Moreover the reader is introduced to components that make up a Semantic Web deployment and how they fit together the concept of inferencing in the Semantic Web and how RDFS differs from other schema languages Finally the book considers the use of SKOS Simple Knowledge Organization System to manage vocabularies by taking advantage of the inferencing structure of RDFS Plus This book is intended for the working ontologist who is trying to create a

domain model on the Semantic Web Updated with the latest developments and advances in Semantic Web technologies for organizing querying and processing information including SPARQL RDF and RDFS OWL 2 0 and SKOS Detailed information on the ontologies used in today s key web applications including ecommerce social networking data mining using government data and more Even more illustrative examples and case studies that demonstrate what semantic technologies are and how they work together to solve real world problems

Ontology Engineering Elisa Kendall,Deborah 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

Semantic Web for the Working Ontologist Dean Allemang,James A. Hendler,2008
Practical RDF Shelley Powers,2003-07-18 The Resource Description Framework RDF is a structure for describing and interchanging metadata on the Web anything from library catalogs and worldwide directories to bioinformatics Mozilla internal data structures and knowledge bases for artificial intelligence projects RDF provides a consistent framework and syntax for describing and querying data making it possible to share website descriptions more easily RDF s capabilities however have long been shrouded by its reputation for complexity and a difficult family of specifications Practical RDF breaks through this reputation with immediate and solvable problems to help you understand master and implement RDF solutions Practical RDF explains RDF from the ground up providing real world examples and descriptions of how the technology is being used in applications like Mozilla FOAF and Chandler as well as infrastructure you can use to build your own applications This book cuts to the heart of the W3C s often obscure specifications giving you tools to apply RDF successfully in your own projects The first part of the book focuses on the RDF specifications After an introduction to RDF the book covers the RDF specification documents themselves including RDF Semantics and Concepts and Abstract Model specifications RDF constructs and the RDF Schema The second section focuses on programming language support and the

tools and utilities that allow developers to review edit parse store and manipulate RDF XML Subsequent sections focus on RDF s data roots programming and framework support and practical implementation and use of RDF and RDF XML If you want to know how to apply RDF to information processing Practical RDF is for you Whether your interests lie in large scale information aggregation and analysis or in smaller scale projects like weblog syndication this book will provide you with a solid foundation for working with RDF

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

Demystifying OWL for the Enterprise Michael Uschold, 2018-05-29 The purpose of this book is to speed up the processing of learning and mastering the Web Ontology Language OWL To that end the focus is on the 30% of OWL that gets used 90% of the time After a slow incubation period of nearly 15 years a large and growing number of organizations now have one or more projects using the Semantic Web stack of technologies The Web Ontology Language OWL is an essential ingredient in this stack and the need for ontologists is increasing faster than the number and variety of available resources for learning OWL This is especially true for the primary target audience for this book modelers who want to build OWL ontologies for practical use in enterprise and government settings Others who may benefit from this book include technically oriented managers semantic technology developers undergraduate and post graduate students and finally instructors looking for new ways to explain OWL The book unfolds in a spiral manner starting with the core ideas Each subsequent cycle reinforces and expands on what has been learned in prior cycles and introduces new related ideas Part 1 is a cook s tour of ontology and OWL giving an informal overview of what things need to be said to build an ontology followed by a detailed look at how to say them in OWL This is illustrated using a healthcare example Part 1 concludes with an explanation of some foundational ideas about meaning and semantics to prepare the reader for subsequent chapters Part 2 goes into depth on properties and classes which are the core of OWL There are detailed descriptions of the main constructs that you are likely to need in every day modeling including what inferences are sanctioned Each is illustrated with real world examples Part 3

explains and illustrates how to put OWL into practice using examples in healthcare collateral and financial transactions A small ontology is described for each along with some key inferences Key limitations of OWL are identified along with possible workarounds The final chapter gives a variety of practical tips and guidelines to send the reader on their way

Programming the Semantic Web Toby Segaran, Colin Evans, Jamie Taylor, 2009-07-09 With this book the promise of the Semantic Web in which machines can find share and combine data on the Web is not just a technical possibility but a practical reality Programming the Semantic Web demonstrates several ways to implement semantic web applications using current and emerging standards and technologies You ll learn how to incorporate existing data sources into semantically aware applications and publish rich semantic data Each chapter walks you through a single piece of semantic technology and explains how you can use it to solve real problems Whether you re writing a simple mashup or maintaining a high performance enterprise solution Programming the Semantic Web provides a standard flexible approach for integrating and future proofing systems and data This book will help you Learn how the Semantic Web allows new and unexpected uses of data to emerge Understand how semantic technologies promote data portability with a simple abstract model for knowledge representation Become familiar with semantic standards such as the Resource Description Framework RDF and the Web Ontology Language OWL Make use of semantic programming techniques to both enrich and simplify current web applications

Knowledge Representation and Reasoning Ronald Brachman, Hector Levesque, 2004-05-19 Knowledge representation is at the very core of a radical idea for understanding intelligence This book talks about the central concepts of knowledge representation developed over the years It is suitable for researchers and practitioners in database management information retrieval object oriented systems and artificial intelligence

Knowledge Graphs Mayank Kejriwal, Craig A. Knoblock, Pedro Szekely, 2021-03-30 A rigorous and comprehensive textbook covering the major approaches to knowledge graphs an active and interdisciplinary area within artificial intelligence The field of knowledge graphs which allows us to model process and derive insights from complex real world data has emerged as an active and interdisciplinary area of artificial intelligence over the last decade drawing on such fields as natural language processing data mining and the semantic web Current projects involve predicting cyberattacks recommending products and even gleaning insights from thousands of papers on COVID 19 This textbook offers rigorous and comprehensive coverage of the field It focuses systematically on the major approaches both those that have stood the test of time and the latest deep learning methods

digitalSTS Janet Vertesi, David Ribes, 2019-05-07 New perspectives on digital scholarship that speak to today s computational realities Scholars across the humanities social sciences and information sciences are grappling with how best to study virtual environments use computational tools in their research and engage audiences with their results Classic work in science and technology studies STS has played a central role in how these fields analyze digital technologies but many of its key examples do not speak to today s computational realities This groundbreaking collection brings together a world class

group of contributors to refresh the canon for contemporary digital scholarship In twenty five pioneering and incisive essays this unique digital field guide offers innovative new approaches to digital scholarship the design of digital tools and objects and the deployment of critically grounded technologies for analysis and discovery Contributors cover a broad range of topics including software development hackathons digitized objects diversity in the tech sector and distributed scientific collaborations They discuss methodological considerations of social networks and data analysis design projects that can translate STS concepts into durable scientific work and much more Featuring a concise introduction by Janet Vertesi and David Ribes and accompanied by an interactive microsite this book provides new perspectives on digital scholarship that will shape the agenda for tomorrow s generation of STS researchers and practitioners

Semantic Modeling for Data Panos Alexopoulos,2020-08-19 What value does semantic data modeling offer As an information architect or data science professional let s say you have an abundance of the right data and the technology to extract business gold but you still fail The reason Bad data semantics In this practical and comprehensive field guide author Panos Alexopoulos takes you on an eye opening journey through semantic data modeling as applied in the real world You ll learn how to master this craft to increase the usability and value of your data and applications You ll also explore the pitfalls to avoid and dilemmas to overcome for building high quality and valuable semantic representations of data Understand the fundamental concepts phenomena and processes related to semantic data modeling Examine the quirks and challenges of semantic data modeling and learn how to effectively leverage the available frameworks and tools Avoid mistakes and bad practices that can undermine your efforts to create good data models Learn about model development dilemmas including representation expressiveness and content development and governance Organize and execute semantic data initiatives in your organization tackling technical strategic and organizational challenges

Building Ontologies with Basic Formal Ontology Robert Arp,Barry Smith,Andrew D. Spear,2015-08-28 An introduction to the field of applied ontology with examples derived particularly from biomedicine covering theoretical components design practices and practical applications In the era of big data science is increasingly information driven and the potential for computers to store manage and integrate massive amounts of data has given rise to such new disciplinary fields as biomedical informatics Applied ontology offers a strategy for the organization of scientific information in computer tractable form drawing on concepts not only from computer and information science but also from linguistics logic and philosophy This book provides an introduction to the field of applied ontology that is of particular relevance to biomedicine covering theoretical components of ontologies best practices for ontology design and examples of biomedical ontologies in use After defining an ontology as a representation of the types of entities in a given domain the book distinguishes between different kinds of ontologies and taxonomies and shows how applied ontology draws on more traditional ideas from metaphysics It presents the core features of the Basic Formal Ontology BFO now used by over one hundred ontology projects around the world and offers examples of domain ontologies that utilize BFO The book also

describes Web Ontology Language OWL a common framework for Semantic Web technologies Throughout the book provides concrete recommendations for the design and construction of domain ontologies [Learning SPARQL](#) Bob DuCharme,2013-07-03 Gain hands on experience with SPARQL the RDF query language that s bringing new possibilities to semantic web linked data and big data projects This updated and expanded edition shows you how to use SPARQL 1.1 with a variety of tools to retrieve manipulate and federate data from the public web as well as from private sources Author Bob DuCharme has you writing simple queries right away before providing background on how SPARQL fits into RDF technologies Using short examples that you can run yourself with open source software you ll learn how to update add to and delete data in RDF datasets Get the big picture on RDF linked data and the semantic web Use SPARQL to find bad data and create new data from existing data Use datatype metadata and functions in your queries Learn techniques and tools to help your queries run more efficiently Use RDF Schemas and OWL ontologies to extend the power of your queries Discover the roles that SPARQL can play in your applications [Linked Data](#) Tom Heath,Christian Bizer,2022-05-31 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 [RDF Database Systems](#) Olivier Curé,Guillaume Blin,2014-11-24 RDF Database Systems is a cutting edge guide that distills everything you need to know to effectively use or design an RDF database This book starts with the basics of linked open data and covers the most recent research practice and technologies to help you leverage semantic technology With an approach that combines technical detail with theoretical background this book shows how to design and develop semantic web applications data

models indexing and query processing solutions Understand the Semantic Web RDF RDFS SPARQL and OWL within the context of relational database management and NoSQL systems Learn about the prevailing RDF triples solutions for both relational and non relational databases including column family document graph and NoSQL Implement systems using RDF data with helpful guidelines and various storage solutions for RDF Process SPARQL queries with detailed explanations of query optimization query plans caching and more Evaluate which approaches and systems to use when developing Semantic Web applications with a helpful description of commercial and open source systems

Ontologies with Python Lamy Jean-Baptiste,2021-01-01 Use ontologies in Python with the Owlready2 module developed for ontology oriented programming You will start with an introduction and refresher on Python and OWL ontologies Then you will dive straight into how to access create and modify ontologies in Python Next you will move on to an overview of semantic constructs and class properties followed by how to perform automatic reasoning You will also learn about annotations multilingual texts and how to add Python methods to OWL classes and ontologies Using medical terminologies as well as direct access to RDF triples is also covered Python is one of the most used programming languages especially in the biomedical field and formal ontologies are also widely used However there are limited resources for the use of ontologies in Python Owlready2 downloaded more than 60 000 times is a response to this problem and this book is the first one on the topic of using ontologies with Python What You Will Learn Use Owlready2 to access and modify OWL ontologies in Python Publish ontologies on dynamic websites Perform automatic reasoning in Python Use well known ontologies including DBpedia and Gene Ontology and terminological resources such as UMLS Unified Medical Language System Integrate Python methods in OWL ontologies Who Is This Book For Beginner to experienced readers from biomedical sciences and artificial intelligence fields would find the book useful

Semantic Web Programming John Hebel,Matthew Fisher,Ryan Blace,Andrew Perez-Lopez,2011-02-25 The next major advance in the Web Web 3 0 will be built on semantic Web technologies which will allow data to be shared and reused across application enterprise and community boundaries Written by a team of highly experienced Web developers this book explains examines how this powerful new technology can unify and fully leverage the ever growing data information and services that are available on the Internet Helpful examples demonstrate how to use the semantic Web to solve practical real world problems while you take a look at the set of design principles collaborative working groups and technologies that form the semantic Web The companion Web site features full code as well as a reference section a FAQ section a discussion forum and a semantic blog

Ontology Representation Rinke Hoekstra,2009 Based on author s thesis from the Dutch Research School for Information and Knowledge Systems

Linked Data Sherif Sakr,Marcin Wylot,Raghava Mutharaju,Danh Le Phuoc,Irini Fundulaki,2018-03-01 This book describes efficient and effective techniques for harnessing the power of Linked Data by tackling the various aspects of managing its growing volume storing querying reasoning provenance management and benchmarking To this end Chapter 1 introduces the main concepts of the Semantic Web and Linked Data and provides a

roadmap for the book Next Chapter 2 briefly presents the basic concepts underpinning Linked Data technologies that are discussed in the book Chapter 3 then offers an overview of various techniques and systems for centrally querying RDF datasets and Chapter 4 outlines various techniques and systems for efficiently querying large RDF datasets in distributed environments Subsequently Chapter 5 explores how streaming requirements are addressed in current state of the art RDF stream data processing Chapter 6 covers performance and scaling issues of distributed RDF reasoning systems while Chapter 7 details benchmarks for RDF query engines and instance matching systems Chapter 8 addresses the provenance management for Linked Data and presents the different provenance models developed Lastly Chapter 9 offers a brief summary highlighting and providing insights into some of the open challenges and research directions Providing an updated overview of methods technologies and systems related to Linked Data this book is mainly intended for students and researchers who are interested in the Linked Data domain It enables students to gain an understanding of the foundations and underpinning technologies and standards for Linked Data while researchers benefit from the in depth coverage of the emerging and ongoing advances in Linked Data storing querying reasoning and provenance management systems Further it serves as a starting point to tackle the next research challenges in the domain of Linked Data management

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