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# Semantic Web For The Working Ontologist Effective

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*Semantic Web For The Working Ontologist Effective*

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## MARISA SCHWARTZ

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*Semantic Web for the Working Ontologist* Oxford University Press on Demand

Even though the semantic Web is a relatively new and dynamic area of research, a whole suite of components, standards, and tools have already been developed around it. Using a concrete approach, *Introduction to the Semantic Web and Semantic Web Services* builds a firm foundation in the concept of the semantic Web, its principal technologies, its real-world applications, and its relevant coding examples. This introductory yet comprehensive book covers every facet of this exciting technology. After an introduction to the semantic Web concept, it discusses its major technical enablers and the relationships among these components. The author then presents several applications of the semantic Web, including Swoogle, FOAF, and a detailed design of a semantic Web search engine. The book concludes with discussions on how to add semantics to traditional Web service descriptions and how to develop a search engine for semantic Web services. Covering the building blocks of an advanced Web technology, this practical resource equips you with the tools to further explore the world of the semantic Web on your own.

John Wiley & Sons

*Social Semantics: The Search for Meaning on the Web* provides a unique introduction to identity and reference theories of the World Wide Web, through the academic lens of philosophy of language and data-driven statistical models. The Semantic Web is a natural evolution of the Web, and this book covers the URL-based Web architecture and Semantic Web in detail. It has a robust empirical side which has an impact on industry. *Social Semantics: The Search for Meaning on the Web* discusses how the largest problem facing the Semantic Web is the problem of identity and reference, and how these are the results of a larger general theory of meaning. This book hypothesizes that statistical semantics can solve these problems, illustrated by case studies ranging from a pioneering study of tagging systems to using the Semantic Web to boost the results of commercial search engines. *Social Semantics: The Search for Meaning on the Web* targets practitioners working in the related fields of the semantic web, search engines, information retrieval, philosophers of language and more. Advanced-level students and researchers focusing on computer science will also find this book valuable as a secondary text or reference book.

*Spinning the Semantic Web* John Wiley & Sons

Explores the concepts of the Semantic Web, covering such topics as the Semantic Web's foundation, RDF, topic maps, annotation, searching the Web, logic, Web services, and agents.

### **Introduction to the Semantic Web and Semantic Web Services** IGI Global

The Social Web (including services such as MySpace, Flickr, last.fm, and WordPress) has captured the attention of millions of users as well as billions of dollars in investment and acquisition.

Social websites, evolving around the connections between people and their objects of interest, are encountering boundaries in the areas of information integration, dissemination, reuse, portability, searchability, automation and demanding tasks like querying. The Semantic Web is an ideal platform for interlinking and performing operations on diverse person- and object-related data available from the Social Web, and has produced a variety of approaches to overcome the boundaries being experienced in Social Web application areas. After a short overview of both the Social Web and the Semantic Web, Breslin et al. describe some popular social media and social networking applications, list their strengths and limitations, and describe some applications of Semantic Web technology to address their current shortcomings by enhancing them with semantics. Across these social websites, they demonstrate a twofold approach for interconnecting the islands that are social websites with semantic technologies, and for powering semantic applications with rich community-created content. They conclude with observations on how the application of Semantic Web technologies to the Social Web is leading towards the "Social Semantic Web" (sometimes also called "Web 3.0"), forming a network of interlinked and semantically-rich content and knowledge. The book is intended for computer science professionals, researchers, and graduates interested in understanding the technologies and research issues involved in applying Semantic Web technologies to social software.

Practitioners and developers interested in applications such as blogs, social networks or wikis will also learn about methods for increasing the levels of automation in these forms of Web communication.

*Explorer's Guide to the Semantic Web* IGI Global

The author looks at the construction of the Semantic Web, which enables computers to automatically and independently consume Web-based information.

*Social Networks and the Semantic Web* IGI Global

"The Semantic Web is a new area of research and development in the field of computer science that aims to make it easier for computers to process the huge amount of information on the Web, and indeed other large databases, by enabling them not only to read, but also to understand the information. Based on successful courses taught by the authors, and liberally sprinkled with examples and exercises, this comprehensive textbook describes not only the theoretical issues underlying the Semantic Web, but also algorithms, optimisation ideas and implementation details. The book will therefore be valuable to practitioners as well as students, indeed to anyone who is interested in Internet technology, knowledge engineering or description logics. Supplementary materials available online include the source code of program examples and solutions to selected exercises"--

*Semantic Web for the Working Ontologist, 2nd Edition* "O'Reilly Media, Inc."

This book covers key issues related to Geospatial Semantic Web, including geospatial web services for spatial data interoperability; geospatial ontology for semantic interoperability; ontology creation, sharing, and integration; querying knowledge and

information from heterogeneous data source; interfaces for Geospatial Semantic Web, VGI (Volunteered Geographic Information) and Geospatial Semantic Web; challenges of Geospatial Semantic Web; and development of Geospatial Semantic Web applications. This book also describes state-of-the-art technologies that attempt to solve these problems such as WFS, WMS, RDF, OWL and GeoSPARQL and demonstrates how to use the Geospatial Semantic Web technologies to solve practical real-world problems such as spatial data interoperability.

*Fuzzy Logic and the Semantic Web* Springer

The 3rd International Semantic Web Conference (ISWC 2004) was held November 7-11, 2004 in Hiroshima, Japan. If it is true what the proverb says: "Once by accident, twice by habit, three times by tradition," then this third ISWC did indeed firmly establish a tradition. After the overwhelming interest in last year's conference at Sanibel Island, Florida, this year's conference showed that the Semantic Web is not just a one-day wonder, but has established itself firmly on the research agenda. At a time when special interest meetings with a Semantic Web theme are springing up at major conferences in numerous areas (ACL, VLDB, ECAI, AAI, ECML, WWW, to name but a few), the ISWC series has established itself as the primary venue for Semantic Web research. Response to the call for papers for the conference continued to be strong. We solicited submissions to three tracks of the conference: the research track, the industrial track, and the poster track. The research track, the premier venue for basic research on the Semantic Web, received 205 submissions, of which 48 were accepted for publication. Each submission was evaluated by three program committee members whose reviews were coordinated by members of the senior program committee. Final decisions were made by the program co-chairs in consultation with the conference chair and the senior program committee. The industrial track, soliciting papers describing industrial research on the Semantic Web, received 22 submissions, of which 7 were accepted for publication.

*The Semantic Web Explained* MIT Press

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.

*Social Semantics* Springer Science & Business Media

As a new generation of technologies, frameworks, concepts and practices for information systems emerge, practitioners, academicians, and researchers are in need of a source where they can go to educate themselves on the latest innovations in this area. *Semantic Web Information Systems: State-of-the-Art Applications* establishes value-added knowledge transfer and personal development channels in three distinctive areas: academia, industry, and government. *Semantic Web Information Systems: State-of-the-Art Applications* covers new semantic Web-enabled tools for the citizen, learner, organization, and business. Real-world applications toward the development of the knowledge society and semantic Web issues, challenges and implications in each of the IS research streams are included as viable sources for this challenging subject.

*Semantic Web for the Working Ontologist* Springer Science & Business Media

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.

*Semantic Web For Dummies* Morgan & Claypool Publishers

With the current changes driven by the expansion of the World Wide Web, this book uses a different approach from other books on the market: it applies ontologies to electronically available information to improve the quality of knowledge management in large and distributed organizations. Ontologies are formal theories supporting knowledge sharing and reuse. They can be used to explicitly represent semantics of semi-structured information. These enable sophisticated automatic support for acquiring, maintaining and accessing information. Methodology and tools are developed for intelligent access to large volumes of

semi-structured and textual information sources in intra- and extra-, and internet-based environments to employ the full power of ontologies in supporting knowledge management from the information client perspective and the information provider. The aim of the book is to support efficient and effective knowledge management and focuses on weakly-structured online information sources. It is aimed primarily at researchers in the area of knowledge management and information retrieval and will also be a useful reference for students in computer science at the postgraduate level and for business managers who are aiming to increase the corporations' information infrastructure. The Semantic Web is a very important initiative affecting the future of the WWW that is currently generating huge interest. The book covers several highly significant contributions to the semantic web research effort, including a new language for defining ontologies, several novel software tools and a coherent methodology for the application of the tools for business advantage. It also provides 3 case studies which give examples of the real benefits to be derived from the adoption of semantic-web based ontologies in "real world" situations. As such, the book is an excellent mixture of theory, tools and applications in an important area of WWW research. \* Provides guidelines for introducing knowledge management concepts and tools into enterprises, to help knowledge providers present their knowledge efficiently and effectively. \* Introduces an intelligent search tool that supports users in accessing information and a tool environment for maintenance, conversion and acquisition of information sources. \* Discusses three large case studies which will help to develop the technology according to the actual needs of large and or virtual organisations and will provide a testbed for evaluating tools and methods. The book is aimed at people with at least a good understanding of existing WWW technology and some level of technical understanding of the underpinning technologies (XML/RDF). It will be of interest to graduate students, academic and industrial researchers in the field, and the many industrial personnel who are tracking WWW technology developments in order to understand the business implications. It could also be used to support undergraduate courses in the area but is not itself an introductory text.

*Semantic Web for the Working Ontologist: Effective Modeling for Linked Data, RDFS, and OWL* Springer Science & Business Media  
"This book brings together researchers, scientists, and representatives from different communities to study, understand, and explore the theory, tools, and applications of the semantic Web. It joins the semantic Web, ontologies, knowledge management, Web services, and Web processes into one fully comprehensive resource, serving as the platform for exchange of both practical technologies and research"--Provided by publisher.  
[Demystifying OWL for the Enterprise](#) Elsevier

The Semantic Web represents a vision for how to make the huge amount of information on the Web automatically processable by machines on a large scale. For this purpose, a whole suite of standards, technologies and related tools have been specified and developed over the last couple of years and they have now become the foundation for numerous new applications. A Developer's Guide to the Semantic Web helps the reader to learn the core standards, key components and underlying concepts. It provides in-depth coverage of both the what-is and how-to aspects of the Semantic Web. From Yu's presentation, the reader will obtain not only a solid understanding about the Semantic Web, but also learn how to combine all the pieces to build new applications on the Semantic Web. The second edition of this book not only adds detailed coverage of the latest W3C standards such as SPARQL 1.1 and RDB2RDF, it also updates the readers by following recent developments. More specifically, it includes five

new chapters on schema.org and semantic markup, on Semantic Web technologies used in social networks and on new applications and projects such as data.gov and Wikidata and it also provides a complete coding example of building a search engine that supports Rich Snippets. Software developers in industry and students specializing in Web development or Semantic Web technologies will find in this book the most complete guide to this exciting field available today. Based on the step-by-step presentation of real-world projects, where the technologies and standards are applied, they will acquire the knowledge needed to design and implement state-of-the-art applications.

**Knitting the Semantic Web** Springer

Social Networks and the Semantic Web offers valuable information to practitioners developing social-semantic software for the Web. It provides two major case studies. The first case study shows the possibilities of tracking a research community over the Web. It reveals how social network mining from the web plays an important role for obtaining large scale, dynamic network data beyond the possibilities of survey methods. The second case study highlights the role of the social context in user-generated classifications in content, such as the tagging systems known as folksonomies.

*Agency and the Semantic Web* Morgan & Claypool Publishers  
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.

*Semantic Web-Based Information Systems: State-of-the-Art Applications* IGI Global

"This book lays the foundations for understanding the concepts and technologies behind the Semantic Web"--Provided by publisher.

*Semantic Web Science and Real-World Applications* Morgan & Claypool Publishers

Thought-provoking and accessible in approach, this updated and expanded second edition of the *Semantic Web for the Working Ontologist: Effective Modeling in RDFS and OWL* provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for advanced graduate-level students. We hope you find this book useful in shaping your future career. Feel free to send us your

enquiries related to our publications to [info@risepress.pw](mailto:info@risepress.pw) Rise Press

*Towards the Semantic Web* Routledge

Semantic web continues to be an increasingly important system for allowing end-users to share and communicate information online. *Semantic Web: Ontology and Knowledge Base Enabled Tools, Services and Application* focuses on the information systems discipline and the tools and techniques utilized for the emerging use of semantic web. Covering topics on semantic

search, ontologies, and recommendation systems, this publication is essential for academics, practitioners, and industry professionals.

**Linked Data** Morgan & Claypool Publishers

"This book addresses how we can make the Web more useful, more intelligent, more knowledge intensive to fulfill our more and more demanding learning and working needs? It is based on the premise that representing knowledge visually is key for individuals and organizations to enable useful access to the knowledge era"--Provided by publisher.