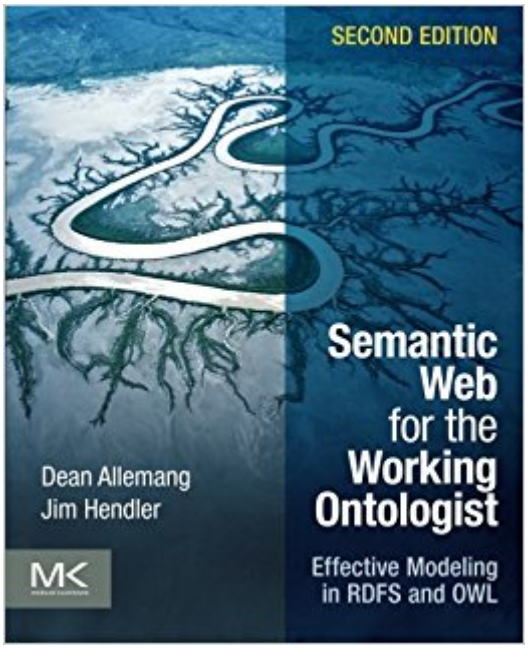
Semantic Web For The Working Ontologist, Second Edition: Effective Modeling In RDFS And OWL



Synopsis

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

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Customer Reviews

"Overall, this book provides a thorough and cogent introduction to the semantic Web. Giving just enough philosophical background, the authors focus on the practical aspects of constructing data stores and applications. This blend of philosophy and practical descriptions leads the reader to anticipate how the standards of the semantic Web should work before the standards are described. As a result, the reader is likely to feel that the semantic Web works just as it should."--Computing Reviews "Allemang, a scientist at a company that consults, trains, and provides products for the Semantic Web, and Hendler (computer and cognitive science, Rensselaer Polytechnic Institute) explain how web developers who are practitioners in another field, such as health care, finance, engineering, national intelligence, and enterprise architecture, can model data to fit the requirements of the Semantic Web. They detail how to construct semantic models, with a focus on the use of RDF (Resource Description Framework), RDFS (RDF schema), and OWL (Web Ontology Language) to accomplish specific tasks and model data and domains. This edition has been updated to incorporate new technologies such as SPARQL (SPARQL Protocol And RDF Query Language), OWL 2.0, and SKOS (Simple Knowledge Organization System). They include examples of Quantities, Units, Dimensions, and Types (QUDT) and The Open Biological and Biomedical Ontologies (OBO), as well as examples of how to use the Semantic Web to solve common modeling problems and a FAQ section on challenges."--SciTech Book News "Overall, this is an easy-to-follow guide to the basic concepts related to building semantic Web ontologies. The book flows well from chapter to chapter, and the many examples illustrate the different topics. For beginners, itÃ¢â ¬â„¢s an excellent introduction to the subject, which is exactly what the authors intendedÃ¢â ¬Â¦"--Computing Reviews.com

Dean Allemang is the chief scientist at TopQuadrant, Inc.-the first company in the United States devoted to consulting, training, and products for the Semantic Web. He co-developed (with Professor Hendler) TopQuadrantÃ¢â ¬â„¢s successful Semantic Web training series, which he has been delivering on a regular basis since 2003. He has served as an invited expert on numerous international review boards, including a review of the Digital Enterprise Research Institute-the worldÃ¢â ¬â„¢s largest Semantic Web research institute - and the Innovative Medicines Initiative, a

collaboration between 10 pharmaceutical companies and the European Commission to set the roadmap for the pharmaceutical industry for the near future.Jim Hendler is the Tetherless World Senior Constellation Chair at Rensselaer Polytechnic Institute, and has authored over 200 technical papers in the areas of artificial intelligence, Semantic Web, agent-based computing, and web science. One of the early developers of the Semantic Web, he is the Editor-in-Chief emeritus of IEEE Intelligent Systems and is the first computer scientist to serve on the Board of Reviewing Editors for Science. In 2010, he was chosen as one of the 20 most innovative professors in America by Playboy magazine, Hendler currently serves as an "Internet Web Expert" for the U.S. government, providing guidance to the Data.gov project.

This is one of the best books I read on Semantic Web and its alternative title should be "The Most Gentle Introduction to the Semantic Web". Gentle indeed, but not in the sense of "semantic web for dummies".One of the authors, Prof. James Hendler, is the co-author of *THE* article that introduced the concept of Semantic Web to the world (Scientific American Magazine, May 2001). Being an expert in a field and writing a top notch technical introduction that strikes a very good balance between utility and clarity do not necessarily go hand in hand, but in this particular case readers like me should consider themselves very lucky because this book is the perfect blend. Not only does it introduce and explain almost all of the concepts in a very clear and lively manner, but it is full of real-world examples. Being far from a dry technical introduction, the book shows "why"s of Semantic Web with "how"s of it.At its current page count, it is only expected that the book avoids some implementation- and programming-related topics, but books such asÃ Â A Developer’s Guide to the Semantic WebÃ Â can easily fill this gap. On the other hand, despite the abundance of books that jump into nitty gritty details of semantic web programming, the books that describe semantic modeling practices and kindly show the pitfalls of ontology design belong to a very rare species, and this fact alone is one of the reasons why I give five stars in this review.One of the most original parts of the book is at the end: In a brief appendix, the authors give a list of the most frequently asked questions related to semantic web, modeling, ontology design, together with short answers and page number references for further explanations.Creating a useful ontology for a real-world domain which can carry its weight and prove its utility in many different software applications is not something that can simply be mastered by reading this book, it takes lots of effort, trial and error. Nevertheless this book, in its updated second edition, is a very useful, thoughtful and elegant contribution to the growing literature of practical semantic web.

This is a great first book to understand the key technologies surrounding the semantic web. The authors have done a fantastical job building up the subject and helping you to understand not just that what and how, but why the semantic web is the way it is. I found the RDF - RDFS - RDFS plus - OWL build up extremely valuable, as I finally feel like I understand the purpose each serves and how they relate to one another. I also feel like I have enough of a base to start building some ontologies of my own. A must read for anyone who is interested in the subject.

I needed to ramp up on the semantic web, RDF, and SPARQL very quickly, and this book was exactly what I needed. It’s extremely well organized, and does a fantastic job of building up important concepts. This is a book built for learning, and I think the authors did a superb job teaching the material.I’m generally a techie type, and typically learn languages new by just diving in and writing code. But with semantic web, there are some fundamental concepts which make it really hard to just jump into RDF, SPARQL, triple stores, etc., if you don’t really get them. I’m very impressed with how well this book covers those fundamental concepts.It’s also very well written. I got the Kindle edition, which was great to read on the subway during my commute. I thought Semantic Web for the Working Ontologist was actually a good read, and within days I was up to speed. Reading this book was a huge time saved, and I was much better prepared when it came time to dive into code.All in all, this is a very impressive work. Kudos to the authors -- well done. I highly recommend this book to anyone who needs to do real work with the semantic web.

"Semantic Web for the Working Ontologist" gave me a solid overview of how and why one would adopt RDF/OWL and related protocols for linking information across the web. The book includes examples of real-world uses for this set of solutions. And that’s important, because the single biggest concern one might have about adopting these solutions is, "Is anyone else doing it?" Because this technology won’t work in a vacuum. Like other data formats (e.g., XML and JSON) it needs consumers to make it worthwhile.

I have purchased three highly-acclaimed semantic-web books.After spending many hours on these books. I learned many facts, but understood very little.With this book - I understand what can be done with semantic technology. My head is full of possible implamentation ideas, as opposed to the sleep the other books induced.This is the best tech book I read

Very clear. Very useful! Straightforward descriptive text leading through basic concepts to more

complex constructs. Have found it useful as I move from beginning to intermediate RDFS/OWL vocabulary work

For anyone looking to have a quick introduction to Semantic Web and/or to get started using modeling languages, this is a very good book written by renowned practitioners of the field. The ideas are presented in a very clear, simple yet thought-provoking way. The introduction to OWL isn't quite elaborate probably for the reason that that is not the purpose of this book. Hence, after having read 'Semantic Web for the Working Ontologist', if a more foundational text on the topic is desired, in my opinion, 'Foundations of Semantic Web' would be the next choice. However, for beginners, this book is great.

Thanks Dean for the great effort!The book is simply all what you need to get a deep understanding to the Semantic Web in a smooth and simplified way.

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