

Semantic Web for the Working Ontologist, Second Edition: Effective Modeling in RDFS and OWL

By Dean Allemang, James Hendler

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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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Editorial Review

Review

*"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, it's an excellent introduction to the subject, which is exactly what the authors intended…"--**Computing Reviews.com***

About the Author
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) TopQuadrant'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 world'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.

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to you the relaxing pattern is your body and mind will be pleased when you are finished examining it, like winning a. Do you want to try this extraordinary shelling out spare time activity?

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