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Author Jeffrey T Pollock Mar 2009

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Semantic Web technology is already changing how we interact with data on the Web. By connecting random information on the Internet in new ways, Web 3.0, as it is sometimes called, represents an exciting online evolution. Whether you ' re a consumer doing research online, a business owner who wants to offer your customers the most useful Web site, or an IT manager eager to understand Semantic ...

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Semantic Web For Dummies. Author: Jeffrey T. Pollock. Print, 432 pages, March 2009. ISBN: 978-0-470-39679-7

~~Semantic Web For Dummies – dummies~~

Semantic Web for Dummies is a wide-ranging look at the Semantic Web (also known as Web 3.0) that will open your mind to the potential of this new era in web development. Mr. Pollock's book is an intelligent and informative explanation of this software technology.

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Semantic Web Technologies A set of technologies and frameworks that enable the Web of Data: Resource Description Framework (RDF) A variety of data interchange formats (e.g. RDF/XML ,N3 ,Turtle ,N-Triples) Notations such as RDF Schema (RDFS) and the Web Ontology Language (OWL) All are intended to provide a formal

~~Introduction to Semantic Web Technologies & Linked Data~~

The Semantic Web for Dummies (like me) XML Customized tags, like: <dog>Nena</dog> + RDF Relations, in triples, like: (Nena) (is_dog_of) (Kimiko/Stefan) + Ontologies Hierarchies of concepts, like mammal -> canine -> Cotton de Tulear -> Nena + Inference rules Like: If (person) (owns) (dog), then (person) (cares_for) (dog) = Semantic Web! Semantic ...

~~The Semantic Web~~

If you're mostly interested in technological part of Semantic Web - there are maybe many other books that go deeper into this area. "Semantic Web for Dummies" is great just to discover tons of opportunities that are connected with implementation of Semantic Web applications - its impact on Internet.

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~~Semantic Web for Dummies by Jeffrey T. Pollock~~

Jeffrey T. Pollock Learn to: • Recognize how the Semantic Web differs from the traditional Internet • Make sense of the technology, with simple hands-on exercises • Identify

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Whether you ' re incorporating the Semantic Web in the workplace or using it at home, Semantic Web For Dummies will help you define, develop, implement, and use Web 3.0. About the Author Jeffrey T. Pollock is a software industry veteran whose startup experience and standards community leadership have helped the Semantic Web go from ivory tower to industrial strength.

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There are case studies of early Semantic Web successes and a list of common myths you may encounter. Whether you[alpha]re incorporating the Semantic Web in the workplace or using it at home, Semantic Web For Dummies will help you define, develop, implement, and use Web 3.0.

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Product Details About the Author

Semantic Web technology is already changing how we interact with data on the Web. By connecting random information on the Internet in new ways, Web 3.0, as it is sometimes called, represents an exciting online evolution. Whether you ' re a consumer doing research online, a business owner who wants to offer your customers the most useful Web site, or an IT manager eager to understand Semantic Web solutions, Semantic Web For Dummies is the place to start! It will help you: Know how the typical Internet user will recognize the effects of the Semantic Web Explore all the benefits the data Web offers to businesses and decide whether it ' s right for your business Make sense of the technology and identify applications for it See how the Semantic Web is about data while the " old " Internet was about documents Tour the architectures, strategies, and standards involved in Semantic Web technology Learn a bit about the languages that make it all work: Resource Description Framework (RDF) and Web Ontology Language

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(OWL) Discover the variety of information-based jobs that could become available in a data-driven economy You ' ll also find a quick primer on tech specifications, some key priorities for CIOs, and tools to help you sort the hype from the reality. There are case studies of early Semantic Web successes and a list of common myths you may encounter. Whether you ' re incorporating the Semantic Web in the workplace or using it at home, Semantic Web For Dummies will help you define, develop, implement, and use Web 3.0.

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

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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

With more substantial funding from research organizations and industry, numerous large-scale applications, and recently developed technologies, the Semantic Web is quickly emerging as a well-recognized and important area of computer science. While Semantic Web technologies are still rapidly evolving, Foundations of Semantic Web Technologies focuses

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

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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.

A new edition of the widely used guide to the key ideas, languages, and technologies of the Semantic Web The development of the Semantic Web, with machine-readable content, has the potential to revolutionize the World Wide Web and its uses. A Semantic Web Primer provides an introduction and guide to this continuously evolving field, describing its key ideas, languages, and technologies. Suitable for use as a textbook or for independent study by professionals, it concentrates on undergraduate-level fundamental concepts and techniques that will enable readers to proceed with building applications on their own and includes exercises, project descriptions, and annotated references to relevant online materials. The third edition of this widely used text has been thoroughly updated, with significant new material that reflects a rapidly developing field. Treatment of the different languages (OWL2, rules) expands the coverage of RDF and OWL, defining the data model independently of XML and including coverage of

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N3/Turtle and RDFa. A chapter is devoted to OWL2, the new W3C standard. This edition also features additional coverage of the query language SPARQL, the rule language RIF and the possibility of interaction between rules and ontology languages and applications. The chapter on Semantic Web applications reflects the rapid developments of the past few years. A new chapter offers ideas for term projects.

Additional material, including updates on the technological trends and research directions, can be found at <http://www.semanticwebprimer.org>.

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

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This book addresses the question of how knowledge is currently documented, and may soon be documented in the context of what it calls ‘ semantic publishing ’ . This takes two forms: a more narrowly and technically defined ‘ semantic web ’ ; as well as a broader notion of semantic publishing. This book examines the ways in which knowledge is represented in journal articles and books. By contrast, it goes on to explore the potential impacts of semantic publishing on academic research and authorship. It sets this in the context of changing knowledge ecologies: the way research is done; the way knowledge is represented and; the modes of knowledge access used by researchers, students and the general public. Provides an introduction to the ‘ semantic web ’ and semantic publishing for readers outside the field of computer science Discusses the relevance of the ‘ semantic web ’ and semantic publishing more broadly, and its application to academic research Examines the changing ecologies of knowledge production

These are exciting times in the fields of Fuzzy Logic and the Semantic Web, and this book will add to the excitement, as it is the first volume to focus on the growing connections between these two fields. This book is expected to be a valuable aid to anyone considering the application of Fuzzy Logic to the Semantic Web, because it contains a number of detailed accounts of these combined fields, written by leading authors in several countries. The Fuzzy Logic field has been maturing for forty years. These years have witnessed a tremendous growth in the number and variety of applications, with a real-world impact across a wide variety of domains with humanlike behavior and reasoning. And we believe that in the coming years, the Semantic Web will be major field of applications of Fuzzy Logic. This book, the first in the new series *Capturing Intelligence*, shows the positive

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role Fuzzy Logic, and more generally Soft Computing, can play in the development of the Semantic Web, filling a gap and facing a new challenge. It covers concepts, tools, techniques and applications exhibiting the usefulness, and the necessity, for using Fuzzy Logic in the Semantic Web. It finally opens the road to new systems with a high Web IQ. Most of today's Web content is suitable for human consumption. The Semantic Web is presented as an extension of the current web in which information is given well-defined meaning, better enabling computers and people to work in cooperation. For example, within the Semantic Web, computers will understand the meaning of semantic data on a web page by following links to specified ontologies. But while the Semantic Web vision and research attracts attention, as long as it will be used two-valued-based logical methods no progress will be expected in handling ill-structured, uncertain or imprecise information encountered in real world knowledge. Fuzzy Logic and associated concepts and techniques (more generally, Soft Computing), has certainly a positive role to play in the development of the Semantic Web. Fuzzy Logic will not supposed to be the basis for the Semantic Web but its related concepts and techniques will certainly reinforce the systems classically developed within W3C. In fact, Fuzzy Logic cannot be ignored in order to bridge the gap between human-understandable soft logic and machine-readable hard logic. None of the usual logical requirements can be guaranteed: there is no centrally defined format for data, no guarantee of truth for assertions made, no guarantee of consistency. To support these arguments, this book shows how components of the Semantic Web (like XML, RDF, Description Logics, Conceptual Graphs, Ontologies) can be covered, with in each case a Fuzzy Logic focus. First volume to focus on the growing connections between Fuzzy Logic and the Semantic

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Web Keynote chapter by Lotfi Zadeh The Semantic Web is presently expected to be a major field of applications of Fuzzy Logic It fills a gap and faces a new challenge in the development of the Semantic Web It opens the road to new systems with a high Web IQ Contributed chapters by Fuzzy Logic leading experts

The Semantic Web is a vision – the idea of having data on the Web defined and linked in such a way that it can be used by machines not just for display purposes but for automation, integration and reuse of data across various applications. However, there is a widespread misconception that the Semantic Web is a rehash of existing AI and database work. Kashyap, Bussler, and Moran dispel this notion by presenting the multi-disciplinary technological underpinnings such as machine learning, information retrieval, service-oriented architectures, and grid computing. Thus they combine the informational and computational aspects needed to realize the full potential of the Semantic Web vision.

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

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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.

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