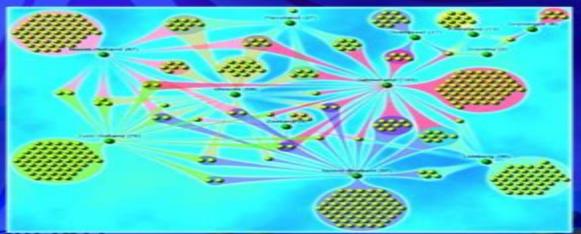
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# Visualizing the Semantic Web

XML-based Internet and Information Visualization



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Visualizing the Semantic Web Vladimir Geroimenko, Chaomei Chen, 2013-06-29 Vladimir Geroimenko and Chaomei Chen The Semantic Web is avision that has sparked a wide ranging enthusiasm for a new generation of the Web The Semantic Web is happening The central idea of this vision is to make the Web more understandable to computer programs so that people can make more use of this gigantic asset The use of metadata data about data can clearly indicate the meaning of data on the Web so as to provide computers with enough information to handle such data On the future Web many additionallayers will be required if we want computer programs to handle the semantics the meaning of data properly without human intervention Such layers should deal with the hierarchical relationships between meanings their similarities and differences logical rules for making new inferences from the existing data and metadata etc Dozens of new technologies have emerged recently to implement these ideas XML eXtensible Markup Language forms the foundation of the future Web RDF Resource Description Framework Topic Maps and many other technologies help to erect a multi storey building of the Semantic Web layer by layer by adding new features and new types of metadata According to Tim Berners Lee the inventor of the current Web and the Semantic Web it may take up to ten years to complete the building The new Web will be much more complex than the current one and will contain enormous amounts of metadata as well as data Semantic Web Vladimir Geroimenko, Chaomei Chen, 2006 The Web is undergoing revolutionary changes its second generation is emerging The key player in the new generation is not HTML but XML this is why it is also known as the XML based Web If the appearance of web pages is a major concern in the first generation then the meaning or semantics of information on the Web is the focus of the second generation which is why it is also called the Semantic Web The new edition of the pioneering monograph on Visualising the Semantic Web has undergone a number of changes in order to reflect recent research results web standards developments and trends In this new edition 2 chapters have been removed 4 new chapters have been added and the 10 remaining chapters have been completely revised and updated Semantic Web and Web Science Juanzi Li, Guilin Qi, Dongyan Zhao, Wolfgang Nejdl, Hai-Tao Zheng, 2013-06-13 The book will focus on exploiting state of the art research in semantic web and web science The rapidly evolving world wide web has led to revolutionary changes in the whole of society The research and development of the semantic web covers a number of global standards of the web and cutting edge technologies such as linked data social semantic web semantic web search smart data integration semantic web mining and web scale computing These proceedings are from the 6th Chinese Semantics Web Symposium 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

to address the challenges of massive 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

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