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Vladimir Geroimenko

Dictionary of **XML Technologies and the Semantic Web**



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Dictionary Of Xml Technologies And The Semantic Web Springer Professional Computing

Vladimir Geroimenko, Chaomei Chen



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Dictionary of XML Technologies and the Semantic Web Vladimir Geroimenko,2004 **Dictionary of XML**

Technologies and the Semantic Web Vladimir Geroimenko,2012-12-06 The emerging Second Generation Web is based entirely on XML and related technologies It is intended to result in the creation of the Semantic Web on which computers will be able to deal with the meaning semantics of Web data and hence to process them in a more effective and autonomous way This new version of the Web introduces a multitude of novel concepts terms and acronyms Purpose Scope and Methods This dictionary is an effort to specify the terminological basis of emerging XML and Semantic Web technologies The ultimate goal of this dictionary is even broader than just to define the meaning of new words it aims to develop a proper understanding of these leading edge technologies To achieve this comprehensible definitions of technical terms are supported by numerous diagrams and code snippets clearly annotated and explained The main areas covered in this dictionary are 1 XML syntax and core technologies such as Namespaces Infoset and XML Schema 2 all the major members of the XML family of technologies such as XSLT XPath and XLink 3 numerous XML based domain specific languages such as NewsML News Markup Language 4 the concept and architecture of the Semantic Web 5 key Semantic Web technologies such as RDF Resource Description Framework RDF Schema and OWL Web Ontology Language and 6 Web services including WSDL Web Services Description Language and SOAP Simple Object Access Protocol , *Visualizing the Semantic Web* Vladimir Geroimenko,Chaomei Chen,2006-07-01 The Semantic Web is a vision that has sparked a wide ranging enthusiasm for a new generation of the Web The Semantic Web is happening The central idea of that 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 enough information to handle such data On the future Web many additional layers 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 things their similarities and differences logical rules for making new inferences from the existing data and metadata and so on 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 OWL Web Ontology Language and many other technologies help to erect a multistory 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 Visualizing Information Using SVG and X3D Vladimir Geroimenko,Chaomei Chen,2005-11-19 Correcting the Great Mistake People often mistake one thing for another That's human nature However one would expect the leaders in a particular field of endeavour to have superior abilities to discriminate among the developments within that field That

is why it is so perplexing that the technology elite supposedly savvy folk such as software developers marketers and businessmen have continually mistaken Web based graphics for something it is not The first great graphics technology for the Web VRML has been mistaken for something else since its inception Viewed variously as a game system a format for architectural walkthroughs a platform for multi user chat and an augmentation of reality VRML may qualify as the least understood invention in the history of information technology Perhaps it is so because when VRML was originally introduced it was touted as a tool for putting the shopping malls of the world online at once prosaic and horrifyingly mundane to those of us who were developing it Perhaps those first two initials VR created expectations of sprawling photorealistic fantasy landscapes for exploration and play across the Web Or perhaps the magnitude of the invention was simply too great to be understood at the time by the many ironically even by those spending the money to underwrite its development Regardless of the reasons VRML suffered in the mainstream as it was twisted to meet unintended ends and stretched far beyond its limitations

American Book Publishing Record, 2004 *The British National Bibliography* Arthur James Wells, 2004 **HIMSS Dictionary of Health Information and Technology Terms, Acronyms, and Organizations** Healthcare Information & Management Systems Society (HIMSS), 2024-07-29 This significantly expanded and newest edition of the bestselling HIMSS Dictionary of Health Information Technology Terms Acronyms and Organizations has been developed and extensively reviewed by more than 50 industry experts The sixth edition of this dictionary serves as a quick reference for students health information technology professionals and healthcare executives to better navigate the ever growing health IT field and includes new terms used as a result of the COVID 19 pandemic and will serve as a resource for HIMSS new certification based on digital health transformation as well as for those taking the CPHIMS and CAHIMS certification exams This valuable resource includes more than 3 000 definitions 30 organizations and numerous new references Definitions of terms for the information technology and clinical medical and nursing informatics fields are updated and included This sixth edition also includes an acronym list with cross references to current definitions new word search capability and a list of health IT related associations and organizations including contact information mission statements and web addresses Academic and certification credentials are also included *Forthcoming Books* Rose Arny, 2003-12 **Geospatial Web Services: Advances in Information Interoperability** Zhao, Peisheng, Di, Liping, 2010-12-31 As Web service technologies have matured in recent years an increasing number of geospatial Web services designed to deal with spatial information over the network have emerged Geospatial Web Services Advances in Information Interoperability provides relevant theoretical frameworks and the latest empirical research findings and applications in the area This book highlights the strategic role of geospatial Web services in a distributed heterogeneous environment and the life cycle of geospatial Web services for building interoperable geospatial applications

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