#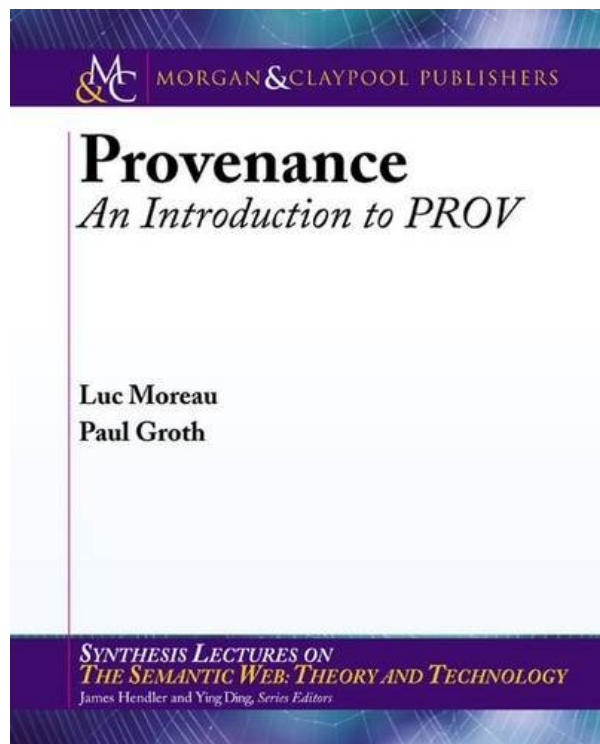 PROVENANCE: AN INTRODUCTION TO PROV (SYNTHESIS LECTURES ON THE SEMANTIC WEB: THEORY AND TECHNOLOGY) BY LUC MOREAU, PAUL GROTH

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The World Wide Web is now deeply intertwined with our lives, and has become a catalyst for a data deluge, making vast amounts of data available online, at a click of a button. With Web 2.0, users are no longer passive consumers, but active publishers and curators of data. Hence, from science to food manufacturing, from data journalism to personal well-being, from social media to art, there is a strong interest in provenance, a description of what influenced an artifact, a data set, a document, a blog, or any resource on the Web and beyond. Provenance is a crucial piece of information that can help a consumer make a judgment as to whether something can be trusted. Provenance is no longer seen as a curiosity in art circles, but it is regarded as pragmatically, ethically, and methodologically crucial for our day-to-day data manipulation and curation activities on the Web.

Following the recent publication of the PROV standard for provenance on the Web, which the two authors actively help shape in the Provenance Working Group at the World Wide Web Consortium, this Synthesis lecture is a hands-on introduction to PROV aimed at Web and linked data professionals. By means of recipes, illustrations, a website at www.provbook.org, and tools, it guides practitioners through a variety of issues related to provenance: how to generate provenance, publish it on the Web, make it discoverable, and how to utilize it. Equipped with this knowledge, practitioners will be in a position to develop novel applications that can bring open-ness, trust, and accountability.

Table of Contents: Preface / Acknowledgments / Introduction / A Data Journalism Scenario / The PROV Ontology / Provenance Recipes / Validation, Compliance, Quality, Replay / Provenance Management / Conclusion / Bibliography / Authors' Biographies / Index

- Sales Rank: #3662278 in Books
- Published on: 2013-09-01
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .30" w x 7.50" l, .52 pounds
- Binding: Paperback
- 130 pages

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Excellent resource
By Justin
"Provenance: An Introduction to Prov" by Luc Moreau and Paul Groth (Morgan & Claypool, 2013) introduces the reader to the World Wide Web Consortium (W3C)'s Prov Ontology, which formally describes the processes by which an action is taken or a work produced. A colorful diagram illustrates each of the

many use cases described. This use-case driven approach methodically guides the reader through increasing levels of complexity within the prov ontology.

Key strengths include its emphasis on the rationale behind Prov, its meticulous description of qualified provenance, and the devotion of roughly half its length on Prov-based applications. These include the embedding of prov in html through the use of RDFA, within http headers, and within metadata forms. It also describes various interactive provenance management tools.

As a new student of prov and the Semantic Web in general, I found this book to be indispensable because of the very clear examples, extensive use of diagrams, and user-friendly and organized layout (colorful text) with clear section headings. Each chapter is organized as a separate lesson with clear objectives and conclusions, with URLs for examples provided as endnotes.

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