

eCl@ss Data on the WWW: Visibility for your Business The GoodRelations Vocabulary

http://purl.org/goodrelations/

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2000 - 2009





Division of Labor and Specialization Gains



Adam Smith: The Wealth of Nations, 1776



Where are we heading to?

Germany, 2020



Reason # 1: Division of Labor



Reason # 2: Technical Advancement and Innovation





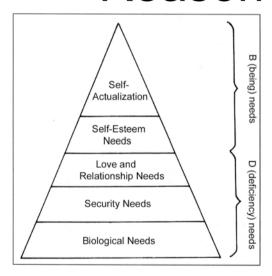
Reason # 3: Logistics

Temporal Constraints etc.





Reason # 4: Wealth





Abraham H. Maslow (1908-1970)

A Theory of Human Motivation (1943)



Examples





Examples





Examples









MERCK'S

WARENLEXIKON

für Handel, Industrie und Gewerbe

Beschreibung der im Handel vorkommenden Natur- und Kunsterzeugnisse unter besonderer Berücksichtigung der chemischtechnischen und anderer Fabrikate, der Drogen- und Farbwaren, der Kolonialwaren, der Landesprodukte, der Material- und Mineralwaren

herausgegeben von

Prof. Dr. A. Beythien,

Ernst Dreßler,

Direktor des chemischen Untersuchungsamtes

Drogist und gerichtlicher Sachverständiger für das Landgericht u. Amtsgericht Dresder

unter Mitwirkung von

Max Arnold, Verbandstoff-Fabrik-Chemnitz, Privatdozent Dr. Paul Bohrisch-Dresden, Heinrich Ernemann A.-G.-Dresden, Dr. Hans Hempel, Stellvertreter des Direktors am Städtischen Untersuchungsamt-Dresden, Photochemiker und Fabrikbesitzer Richard Jahr-Dresden, Schimmel & Co., Fabrik ätherischer Öle und Essenzen-Militz b, Leipzig, Vereinigte Fabriken photographischer Papiere-Dresden

1920: ca. 5,000 Types of Goods



Search for Suppliers, ca. 1992





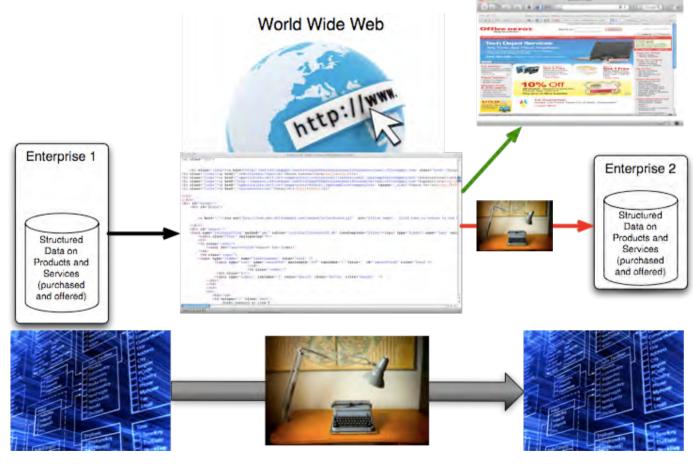


Search for Suppliers, 2009





E-Commerce on the Web







The Web as a Bottleneck for Product Search

- Who sells solar panels with at least 12 A output?
- Who can repair my Sony TV set?
- Who sells Volkswagen cars?
- etc.

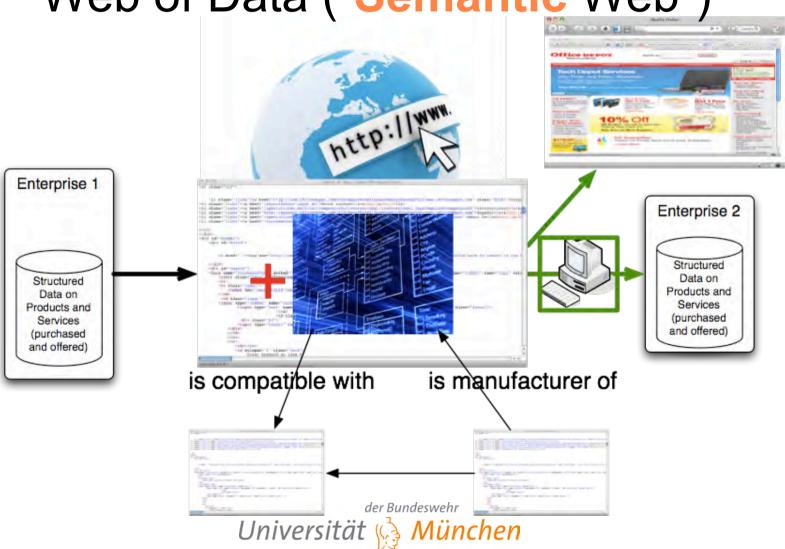


The Web as a Bottleneck for Sharing Product Data





Web of Data ("Semantic Web")



E-Commerce on the Web of Data ("Semantic Web")





Product Specifications: Type of Product, Features etc.



Details of the Offering: Price, Eligible Regions, etc.





Why Should I Bother?

- Web Shops: Better visibility in latest generation of search engines (e.g. Yahoo)
 - Same holds for any business that has a Web page,
 from A as in Amusement Park to Z as in Zoo.
- Manufacturers: Allow your retailers to reuse product feature data with minimal overhead at both ends.
- Software Developers: Help your customers to use and generate Semantic Web data. It's easy!





Others Do Care: Pick-up in Industry

Smart Information Systems

smart information systems

- ebSemantics
- Yahoo! SearchMonkey
- Virtuose Sponger Catridges for Amazon, eBay, and others expected
- Major German mail order companies
- etc.







The Web of Data for E-Commerce and E-Procurement





The GoodRelations Vocabulary

 A universal and free Web vocabulary for adding product and offering data to your Web pages.



- Compatible with all relevant W3C standards and recommendations
 - RDF
 - OWL

http://purl.org/goodrelations/





The GoodRelations Vocabulary

 Permanent, royalty-free access for commercial and non-commercial use.





http://purl.org/goodrelations/





Required Vocabularies

- An vocabulary for product types and features
 - by function, usage, or nature
- An vocabulary for offer specifications
- An offer is basically a relation between
 - an agent,

 - a set of objects,
 a set of property rights,
 an audience, and

 - a set of terms and conditions.









eClassOWL and GoodRelations



GoodRelations

The Web Ontology for E-Commerce

eClassOWL
 foo:myTVSet instanceOf eclassowl:TVSet





foo:myTVSet



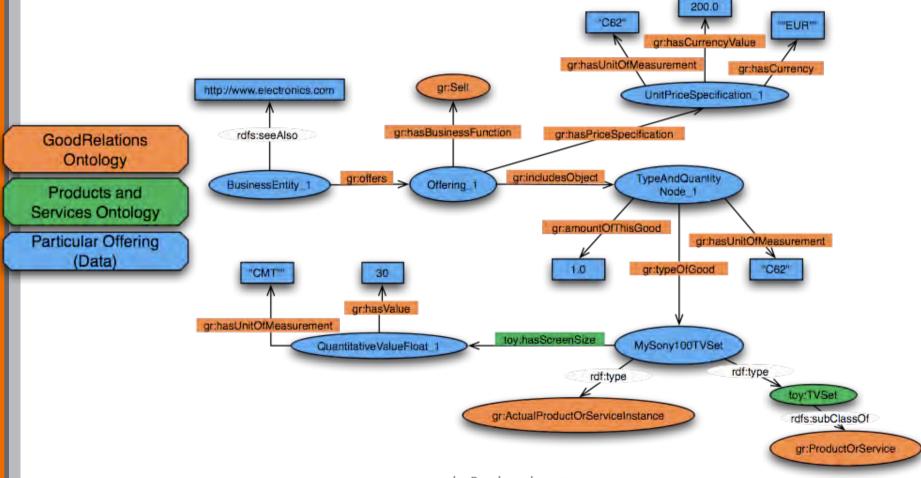
Use Cases

- Commodity offers
- Services offers
- Product model data interchange





Minimal Example







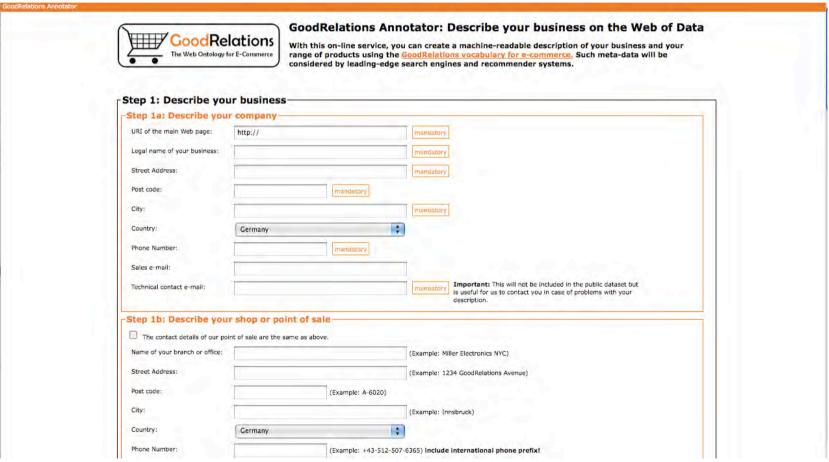
What Should I Do?

- Web Shops: Create a GoodRelations data dump of your range of offers (rather simple)
- Vendors of Web Shop Software: Create
 GoodRelations import and export interfaces (we can
 help you with that)
- Every Business: Ask your webmaster to create at least a basic description of your range of products or services
- Entrepreneurs: Invent new business models based on GoodRelations data



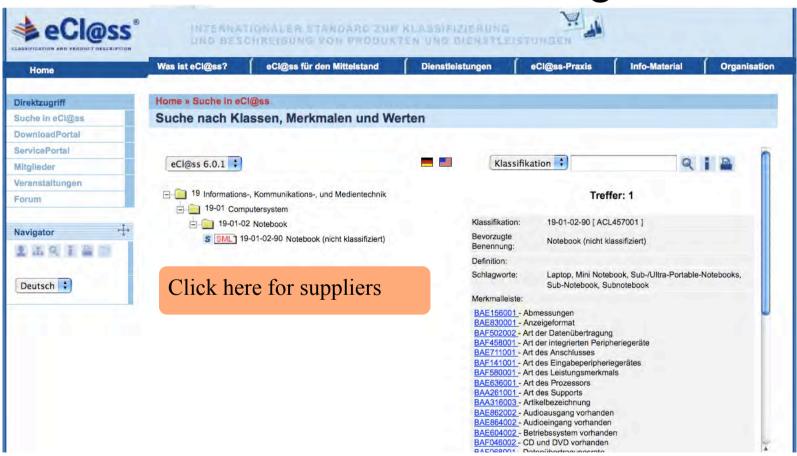


GoodRelations Annotator





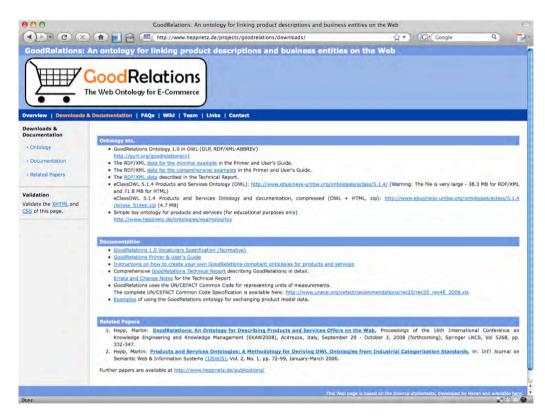
eClass Web Search Engine





Additional Information

- Web Page
 - Ontology
 - LanguageReference
 - Primer
 - Recipes
 - Wiki



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Contact us!

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