The Semantic Web Through Semantic Data

A Four Tier Architecture Model

"*... a universal medium for the exchange of data. It is envisaged to smoothly interconnect personal information management, enterprise application integration, and the global sharing of commercial, scientific and cultural data . . . the 'joining' of decentralized collections of ... data [descriptions]*"

- Semantic Web Activity Statement[1]

Four Layers of Semantic Web Technologies

Layer 4	Semantic-web technology convergences, e.g. an email application with address book data synchronized with an 'off-desktop' data source articulated with a RDF vocabulary; Hot-Desking[2] technologies (enabling a user to move from e.g. their mobile 'phone desktop to a workstation desktop seamlessly) configuration data again being read from an 'off-desktop' source.
Layer 3	Data applications and tools, e.g. databases, XML, "layers" of interest in a LMNL[3] sense.
Layer 2	Meta semantics technologies and tools, e.g. LMNL type syntaxes, RDF, OWL (i.e. both formal and informal semantics).
Layer 1	Resources, user created or otherwise, and related technologies (e.g. WWW).

References:

[1] http://www.w3.org/2001/sw/
[2] http://www.worldwidewords.org/turnsofphrase/tp-hot1.htm
[3] http://www.lmnl.net/

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