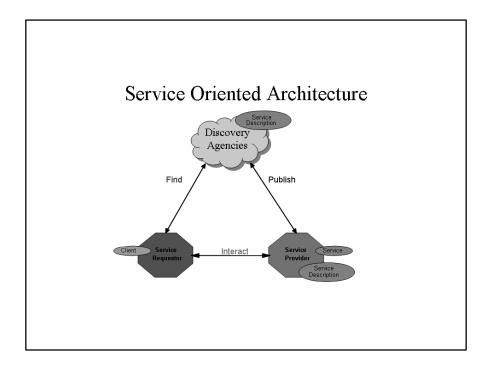
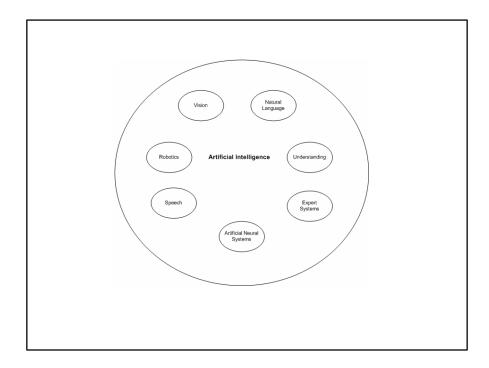


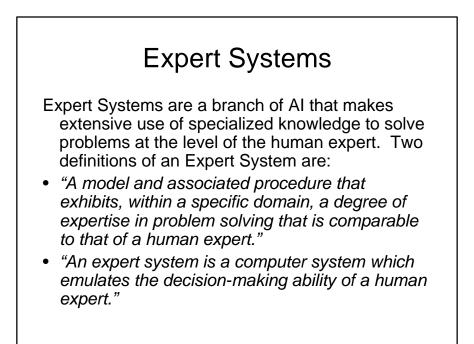


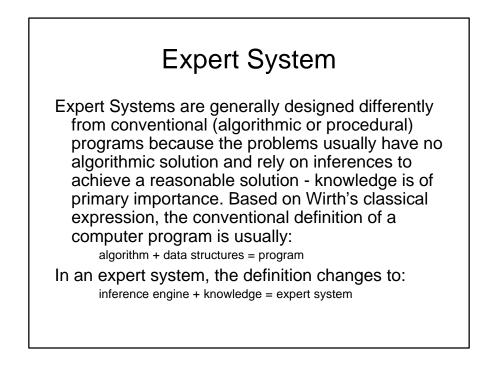
 A Service Oriented Architecture (SOA) is essentially a collection of services. These services communicate with each other to achieve a desired goal. The communication can involve either simple data passing or it could involve two or more services coordinating some activity. Some means of connecting services to each other is needed.

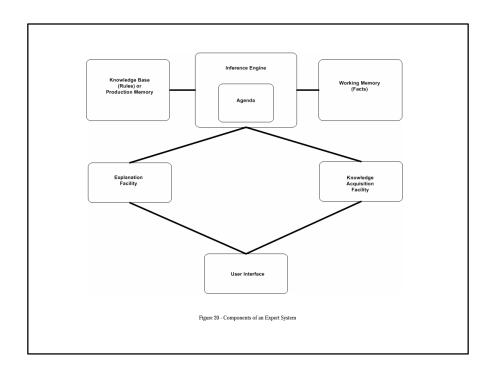








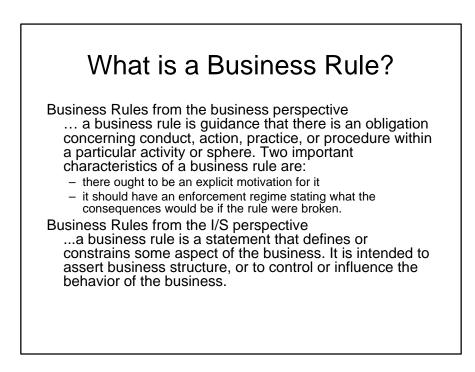


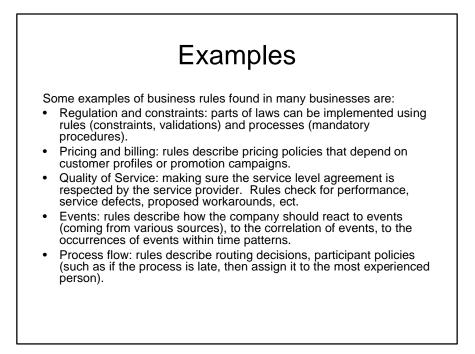


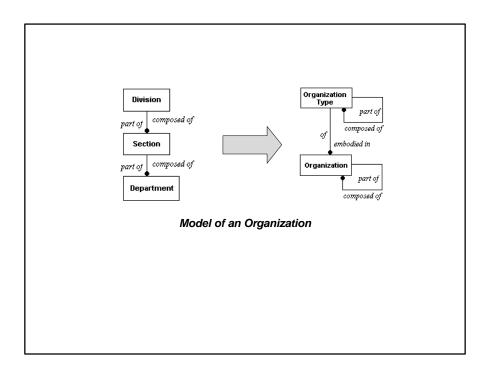


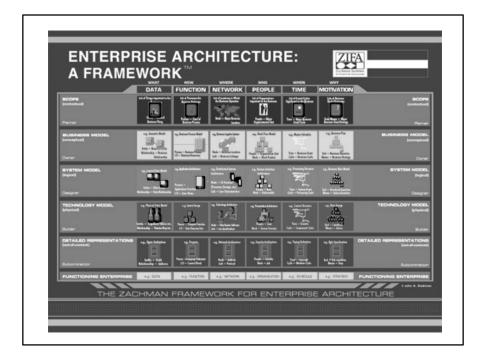
Business Rules

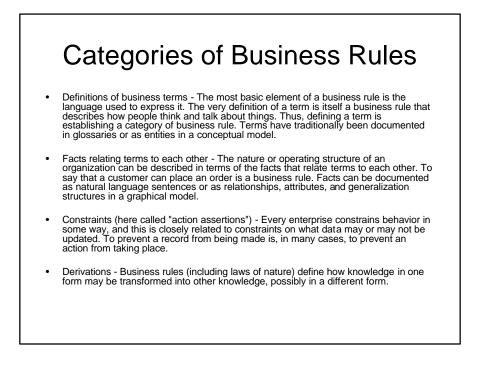
 Business-rules management has many of the same goals, barring the obvious aspects of Web-based availability. It's used to separate business decision processes from the mechanics of application I/O and control code. Rule services represent well-defined action determination tasks that can be called upon from many different applications. Business rules can be maintained and updated separately from the remainder of the program code. And they offer greatly improved visibility and comprehension to nontechnical business policy makers who wish to define and control business operations without worrying about programming syntax.

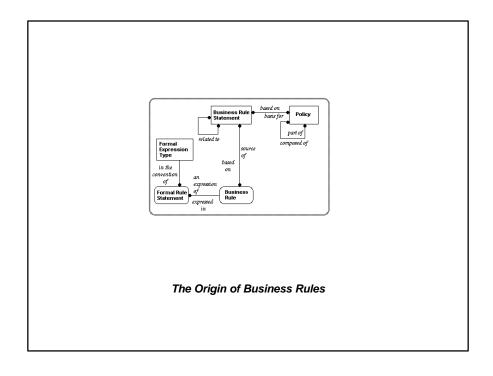


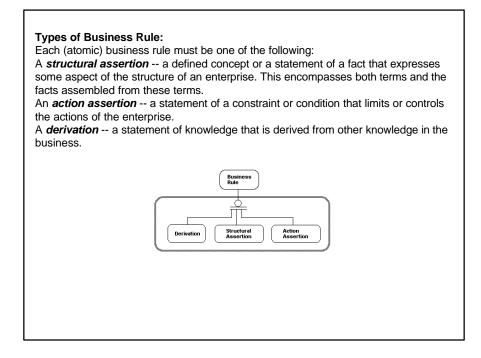






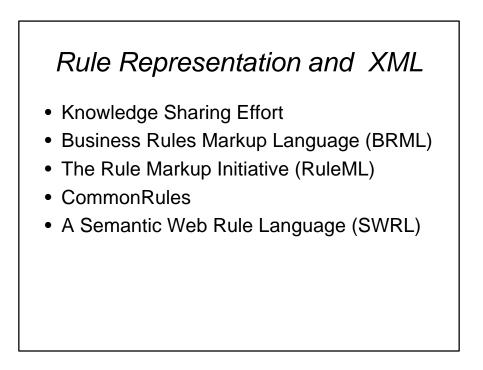


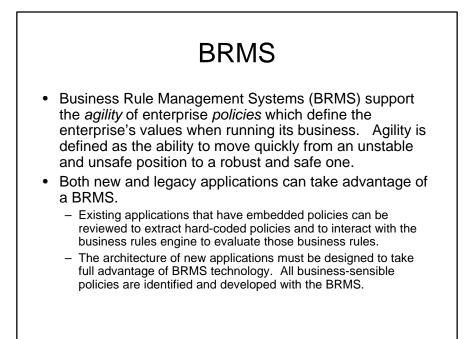


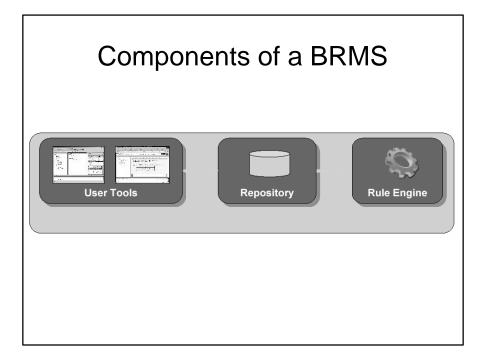


Rule Representation and XML

 Rules can be stated (1) in natural language, (2) in some formal notation, or (3) in a combination of both. XML provides a mechanism for describing rulebased languages as its document tree structure is very similar to the parse trees used to represent the grammatical structure of languages. A grammar is a system of rules by which a language can be produced.



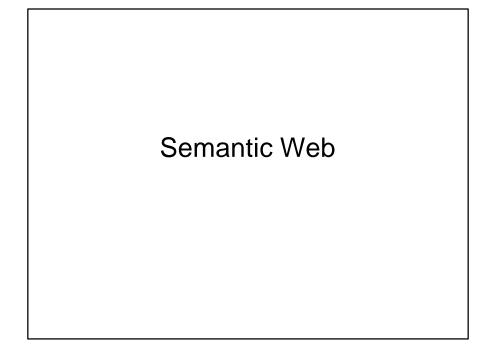


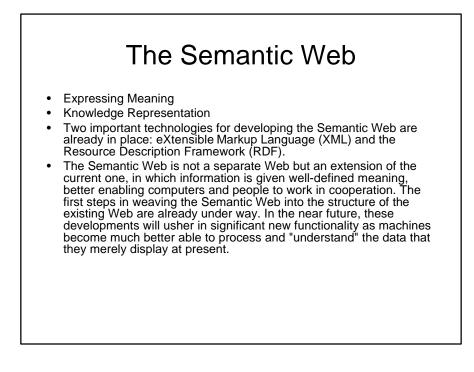


BRMS

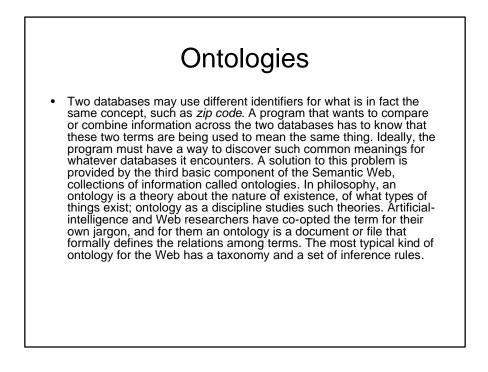
 Business processes ideally should separate the business logic (conditions that depend on business decisions) from the process logic (conditions that depend on the organization) and should in turn rely on a technology like BRMS to support business logic.





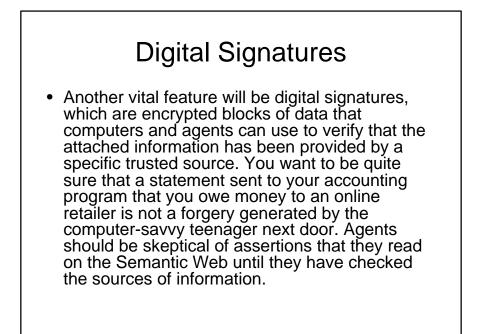


RDF. Meaning is expressed by RDF, which encodes it in sets of triples, each triple being rather like the subject, verb and object of an elementary sentence. These triples can be written using XML tags. In RDF, a document makes assertions that particular things (people, Web pages or whatever) have properties (such as "is a sister of," "is the author of") with certain values (another person, another Web page). This structure turns out to be a natural way to describe the vast majority of the data processed by machines. Subject and object are each identified by a Universal Resource Identifier (URI), just as used in a link on a Web page. (URLs, Uniform Resource Locators, are the most common type of URI.) The verbs are also identified by URIs, which enables anyone to define a new concept, a new verb, just by defining a URI for it somewhere on the Web.



Agents

• The real power of the Semantic Web will be realized when people create many programs that collect Web content from diverse sources, process the information and exchange the results with other programs. The effectiveness of such software agents will increase exponentially as more machine-readable Web content and automated services (including other agents) become available. The Semantic Web promotes this synergy: even agents that were not expressly designed to work together can transfer data among themselves when the data come with semantics.



Sources

- Tim Berners-Lee
- <u>http://www.w3.org/2001/sw/</u>