

The Semantic Web

- Today: Web of Links
- Future: Web of Meaning

The Web

- Distributed
- Dynamic
- Massive
- Open World

Document Languages

- HTML
- XML
 - tags (start-tag, end-tag), element, attribute
 - DTD (document type definition)
- RDF

The SHOE Language

- Represented in either HTML or XML

SHOE Ontologies

- SHOE uses ontologies to define the valid elements that may be used in describing entities.

<ONTOLOGY ID=id VERSION=version>

.. .. .

<\ONTOLOGY>

- Category Definitions

<DEF-CATEGORY>

- Relational Definitions

<DEF-RELATION> ... <\DEF-RELATION>

SHOE Ontology (cont)

- <USE-ONTOLOGY>
- <DEF-RENAME>

SHOE Inference Rules

- <DEF-INFERENCE> </DEF-INFERENCE>
- Antecedents <INF-IF> </INF-IF>
- Consequents <INF-THEN> </INF-THEN>

SHOE Instances

- <INSTANCE> </INSTANCE>
- <USE-ONTOLOGY>
- <CATEGORY NAME = y FOR=x>
- <RELATION NAME = foo>