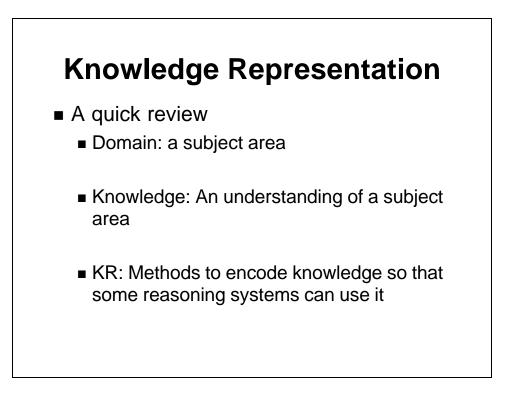
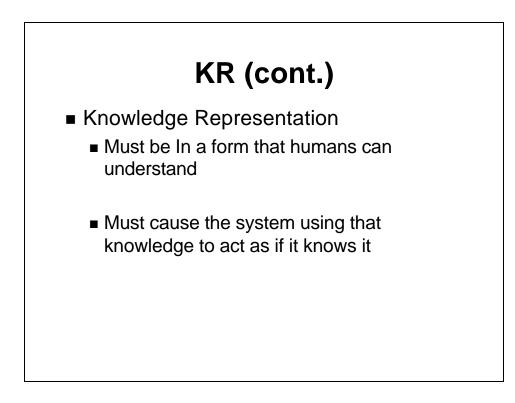
## Knowledge Representation in Semantic Web

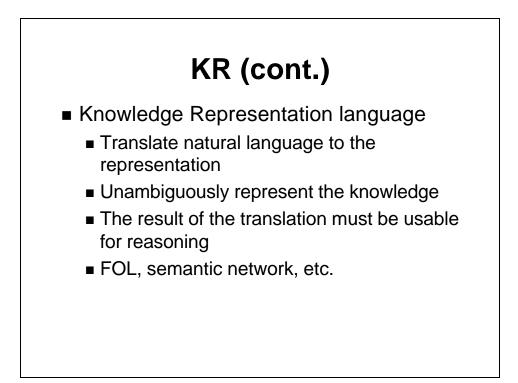
Wei Zhang (wzhang@cs.uic.edu) Huiyong Xiao (hxiao@cs.uic.edu)

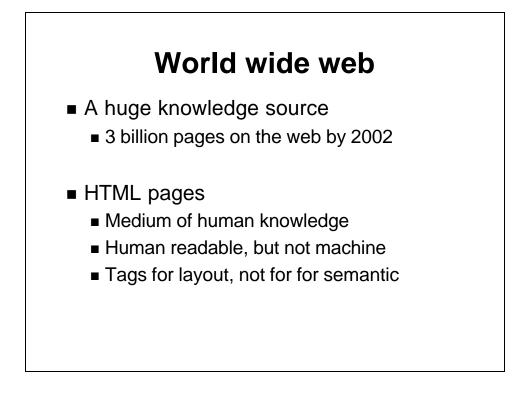
## Outline

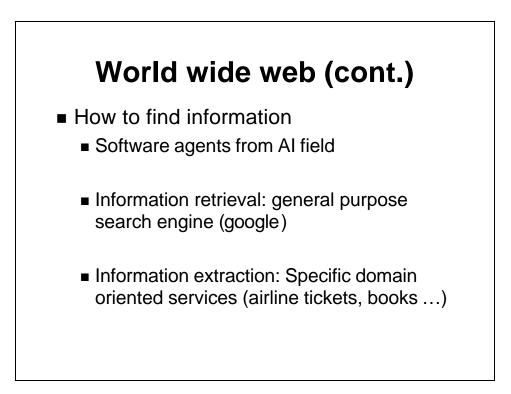
- Traditional knowledge representation
- Current world wide web
- Semantic web architecture
- Ontology
- Protégé-2000 as Ontology Editor (Demo)
- Ontology representation language: RDF
- Protégé-2000 as RDF(S) Editor (Demo)
- Extensions of RDF(S)

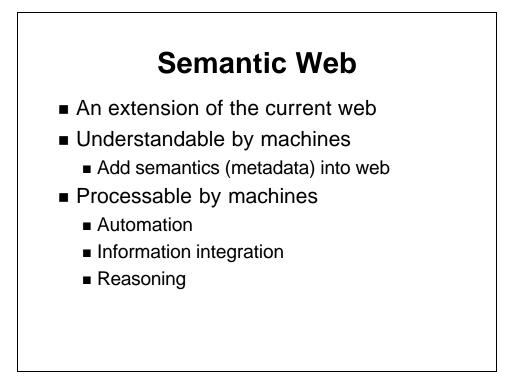


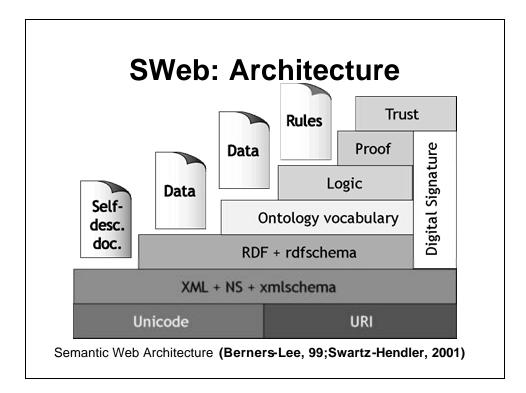


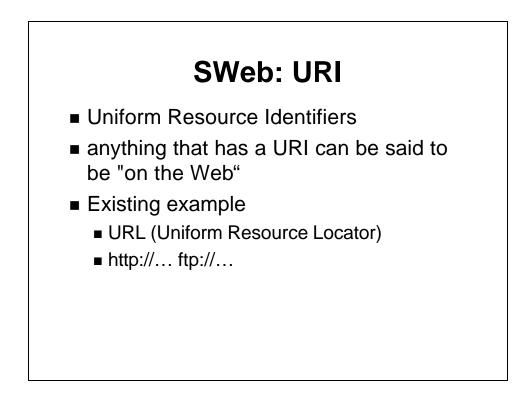












## SWeb: XML

- eXtensible Markup Language
- Create your own tags for your information
- Not perfect for representing knowledge
- Infrastructure for knowledge base

## SWeb: RDF

- Resource Description Framework
- General-purpose language for representing information in the Web
- make statements that are machineprocessable
- subject> <predicate> <object> triple
  filled by URIs

