

- **Interoperability (= main goal of Semantic Web)**

- Why semantics? (interoperability “the next level up” from TCP/IP, HTML, XML, ...?)
- **Defined w.r.t. set of operations, w.r.t. identity**
- **common standards or translations and mappings**

vision

- Multiplicity of languages,

- too high step-in cost
- layering of languages (*, +),
- opportunities for merging? (workshop series) (e.g. XML Schema, RDF Schema, Topic Maps) (ditto for query lang's, tranformation lang's, path models).

urgent

- Reconciling modelling styles/paradigms

- Axioms-style/frame-style(*, +) / constraint-style / rule-style
 - Formal differences and community aspects
- Combining Knowledge Repr approach and Database approach

- Different reasoning services

- Querying, consistency(*), inheritance(*), matching, similarity/difference, classification/type-inference, object-identify, cycle-detection(*), anomaly-detection(*)

- Tolerant inferences, levels of tolerance (some *'s)

- pragmatic levels
- Complexity levels
- Anytime, gradual, resource bounded, continous, streaming

- Notion of identity

- Globally unique names,
- Semantics of URI identity
- Scoping, modularity, namespaces
- Use-mention distinction
- Rigid designators/temporal identity

Easy picks(*) + longer term
(+ = workshop + followup)