- **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
- 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).
- 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)*