

# What is Semantic Web and Linked Open Data?

- Semantic Web and Semantic Technologies
  - Exposing data and datasets to machines
  - Allowing machines to "understand" a bit of the data. Not giving a "higher meaning" to data
- RDF, Ontologies, RDF Shapes
  - RDF: simple graph data model: triples (S,P,O), also quads (S,P,O,C=O)
  - RDFS and OWL Ontologies: describe classes, properties, subclasses, sub-properties, description logic constructs
  - RDF Shapes (Application Profiles): describe constraints on RDF data
  - May use with or without schema; the schema is part of the data
- Linked Open Data
  - Expose datasets globally, making each entity/data point addressable (URL)
  - Use global identifiers not ambiguous names: "things not strings"
  - Link entities

# Semantics In Databases

**L Towne**



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