Introduction
What is the Semantic Web

• Wikipedia: The Semantic Web is the roadmap of a "man-made woven web of data" that facilitates machines to understand the semantics, or meaning, of information on the World Wide Web

• Open Data Graph
• RDF - Resource Description Framework
• Topic Maps
• Tim Berners Lee TED 2009: 11:26 -13:14
Demonstrations

- Italian Opera Topic Map - Omnigator
- Italian Opera Topic Map - Web Portal
- DBPedia Datasets
  - Abstracts of movies starring Tom Cruise, released before 1999
  - Software developed by an organisation founded in California
- DBPedia Faceted Search
  - Skyscrapers in China that have more than 50 floors
- Freebase
  - Graduates of Stanford born since 1960 who are board members of companies
Freebase MQL Example

Freebase Query Editor

[{
  "b:type": "/business/board_member",
  "date_of_birth": null,
  "date_of_birth>=": "1960",
  "education": [{
    "institution": "Stanford University",
    "id": null
  }],
  "name": null,
  "id": null,
  "type": "/people/person"
}]

Wrap Up

• Tim Berners Lee TED 2010