Welcome to the Semantic Web Tutorial

John Domingue

The Internet has …
1/2 billion hosts (IP addresses)
1.17 billion users
or 17.8% of the world’s population
The Web has …
109 million distinct web sites
29.7 billion web pages
~5 pages for every man, woman, and child on the planet

7.2 billion Web searches/month
(3.9 billion by Google) far exceed the world population
161 exabytes \((10^8 \text{ TB})\) of information was created or replicated worldwide in 2006.

That’s more than in the previous **5,000 years**.
IDC estimates
6X growth by 2010 to
988 exabytes (a zetabyte) / year

New technical information
doubles every 2 years.
... every 72 hours by 2010.

“Web Scale Semantics”
“Web 3.0”
“Computer Science 2.0”
Background History

• OntoWeb
  – European Network of Excellence
  – Finished in 2004
• KnowledgeWeb
  – European Network of Excellence
  – Will end in 2008
• Five summer schools
  – 2003 - 2007

Who

Jim Hendler  Fabio Ciravegna  Sean Bechhofer  Natasha Noy  Jérôme Euzenat
Aldo Gangemi  Asunción Gómez-Pérez  Enrico Motta  John Domingue  David Martin
Today’s Agenda

- 09:00 | Introduction and Overview to the Semantic Web - Jim Hendler
- 09:45 | An Introduction to OWL - Sean Bechhofer
- 10:30 | Coffee Break
- 11:00 | Ontology Engineering Methodologies - Asun Gomez Perez
- 11:45 | Ontology Engineering Design Patterns - Aldo Gangemi
- 12:30 | Lunch
- 14:00 | Automatic Techniques for Extracting Semantic Data - Fabio Ciravegna
- 14:45 | Semantic Web Services - John Domingue and David Martin
- 15:30 | Coffee Break
- 16:00 | Semantic Interoperability - Jerome Euzenat and Natasha Noy
- 16:45 | Semantic Web Applications - Enrico Motta
- 17:30 | End

Tutorial Web Page

Acknowledgements

- Mike Brodie
  - Chief Scientist Verizon