Too Many Links in the Horizon; What’s Next?

Linked Views and Linked History

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Linking Open Data cloud diagram, http://lod-cloud.net/
Linking Open Data cloud diagram, http://lod-cloud.net/
As of September 2010

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"The knowledge itself is not powerful enough, but it further empowers only those who have or can acquire the power to use it." (Richard Lewontin, 1997)

"All models are wrong, but some are useful."
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(Richard Lewontin, 1997)
Data and Links Deluge

Challenges

• How to deal with so much data and so many links

• How to best exploit and make sense of the links and data deluge
Research Path I
Research Path 1

Linked Views
Linked views
Linked views

Knowledge hides better among big piles of data
Linked views

• Dynamic, adaptive, personalized views of the Linked Data

• Different scientific points of view
  • continue, refine and expand the search
  • browse views to be inspired

• Create views in a crowd-sourcing way
Research Path 2
Research Path 2

Linked History
Linked History
Linked History
Linked History
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Thursday, October 27, 2011
Linked History
Linked History
Research Issues

• How can we create, store and maintain views
  • full materialization will be impractical

• Who can access and modify an existing view?
  • ideally we want to share and be inspired by others views
  • Created by one, enriched by the crowd

• How can we store and maintain the history

• Efficient queries on history
  • naive search would lead to millions of joins

• New languages and standards

• Views and History should be accessible from the Web
Thank you!