analyzing global social semantic graphs
betweenness centrality reveals brokers « A place for good ideas » [Burt 1992] [Burt 2004]
sociograms and analysis
\[ d(\text{guillaume}) = 5 \]
\[ d_{\text{family}}(\text{guillaume}) = 3 \]
SemSNA Ontology

FOAF, RELATIONSHIP, SIOC, DC, SKOS, SCOT, DOAP, MOAT

Domain Ontologies

RDF/S, OWL

RDFa

GRDDL

Wrappers & web 2.0 APIs

XML

μformats
SemSNA ontology
SPARQL + Extensions

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XML

µformats

social data
\[ D_{-in\text{<type, length>}}(y) := \]

select \(?y\) count(?x) as \(?\text{degreeCentrality}\) where {
  ?x $path ?y
  filter(match($path, star(param[type])))
  filter(pathLength($path) <= param[length])
} group by ?y
Semantic Social Network Analysis
SPARQL + Extensions
SemSNA Ontology
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Domain Ontologies
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Wrappers & web 2.0 APIs
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μformats
social data
long tail distribution of the betweenness centralities

50 000 projections on 2020 FOAF profiles extracted from flickr.com

Research contract with a Web 2.0 company: 10 000 profiles, 600 000 relations, 1.4 Go RDF in main memory using CORESE

[Freeman, 1979]
• enterprise social networking
• business intelligence, watching, monitoring
• communities of interest, of practice, of experts

isicil.inria.fr
a point made
at the linked data workshop 2009...
unifying identities
integration & consolidation of data
Fabien owl:sameAs Bafien
Magic Hagrid ≠ Semantic Hagrid
global analyzing social semantic graphs