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Real-time #SemanticWeb in <= 140 chars

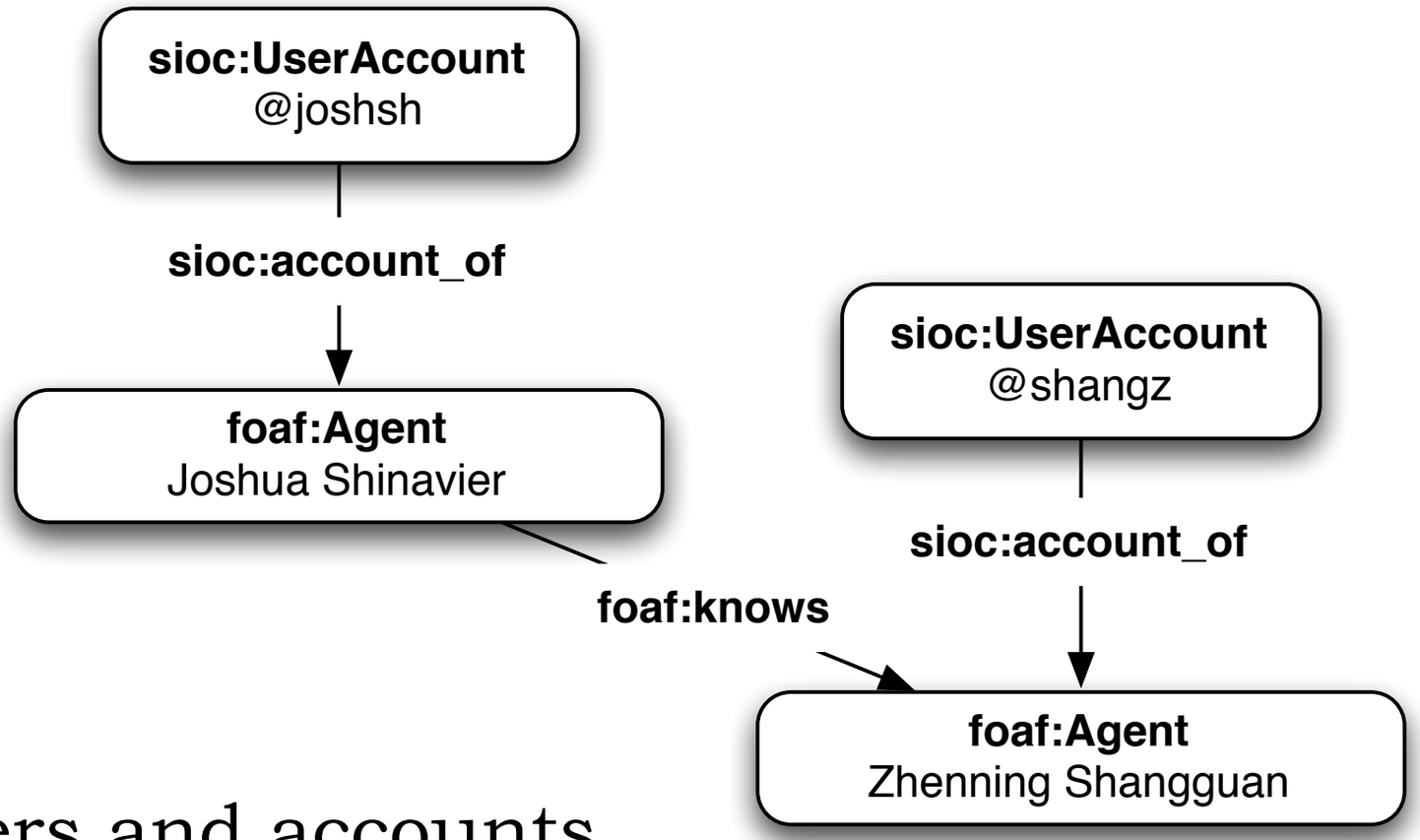
Linked Data on the Web (LDOW2010)

April 27th, 2010

Structured data from microblogs

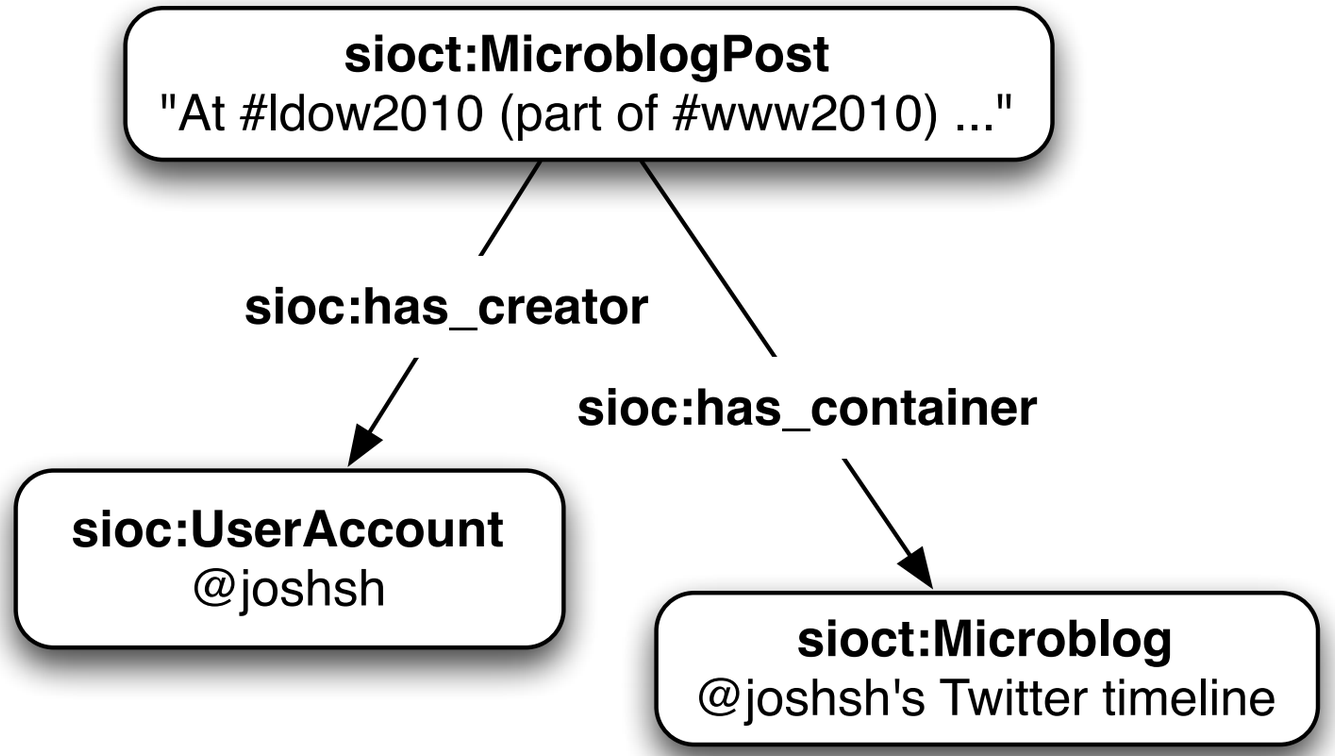
- Semantic Web
  - typically published in large chunks
  - relatively static
- microblogs
  - published in tiny chunks
  - 600+ per second
  - is any of this data useful?
  - what can we capture?

Data about people



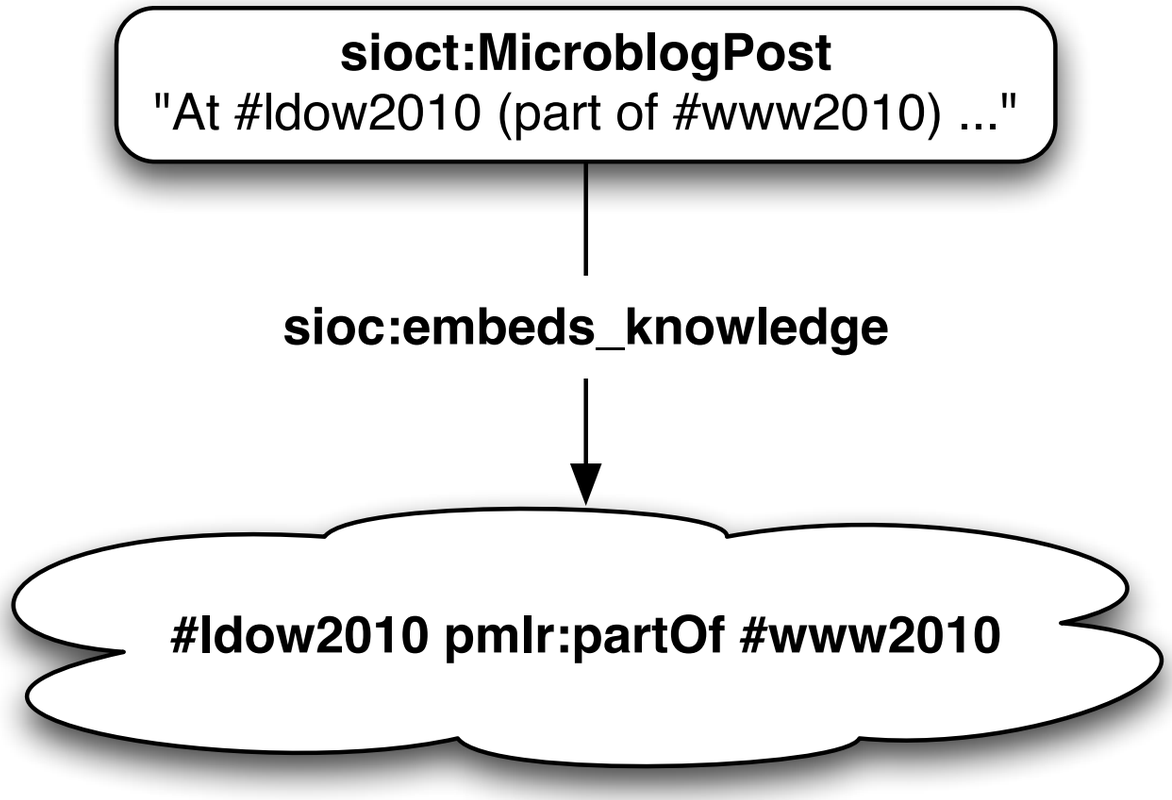
- users and accounts
- use FOAF and SIOC
- e.g. SemanticTweet (Flinter)

Data about tweets



- blogs and posts
- use SIOC and SIOC Types
- e.g. SMOB (Passant et al.)

What about data in a tweet?

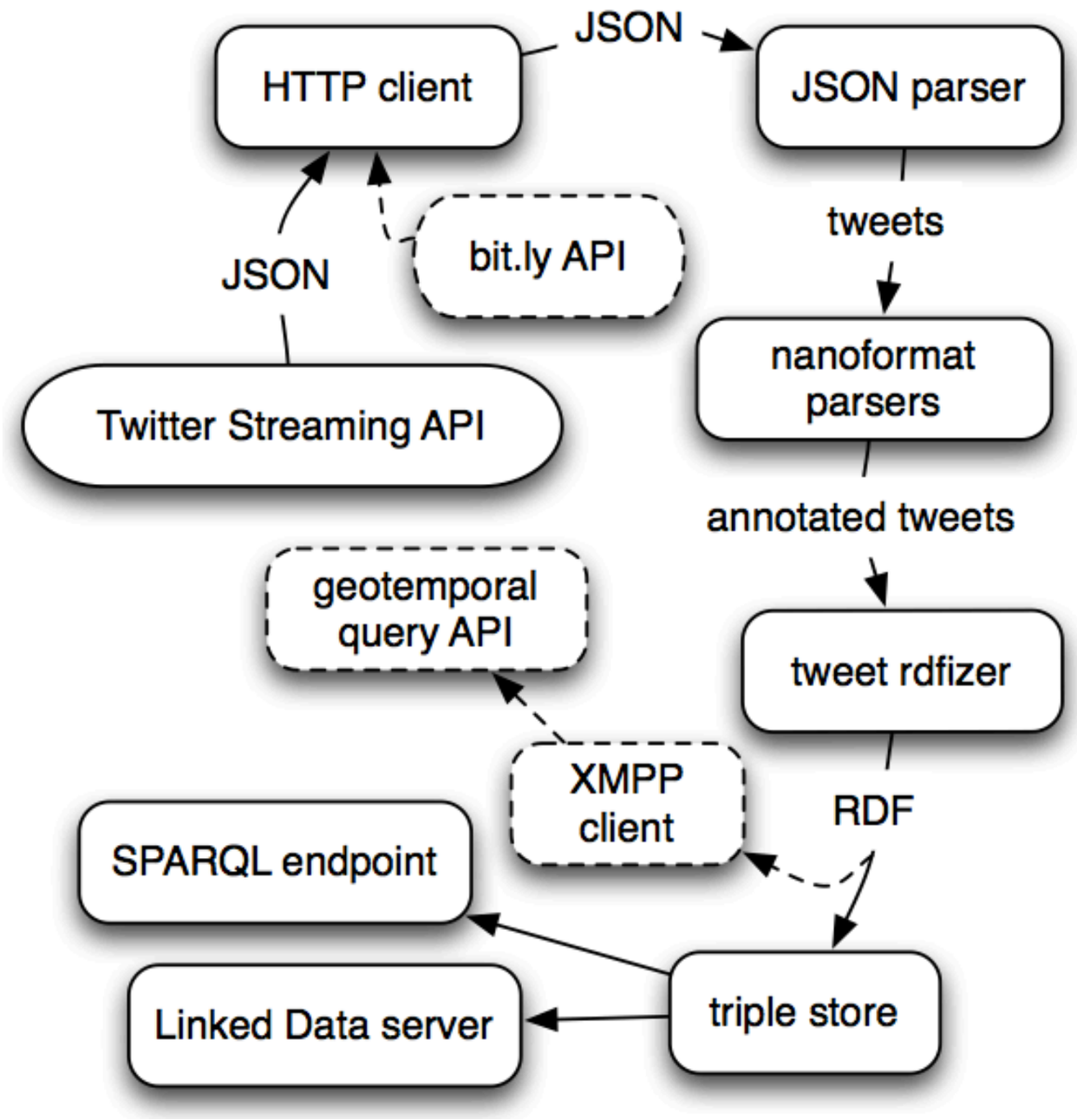


- **nanotations**: structured information in microblog posts

TwitLogic

- capture microblog data...
  - ...including nanotations
- translate it into RDF
- produce an RDF stream
  - ... and expose it as Linked Data
- search and query in real time

TwitLogic architecture



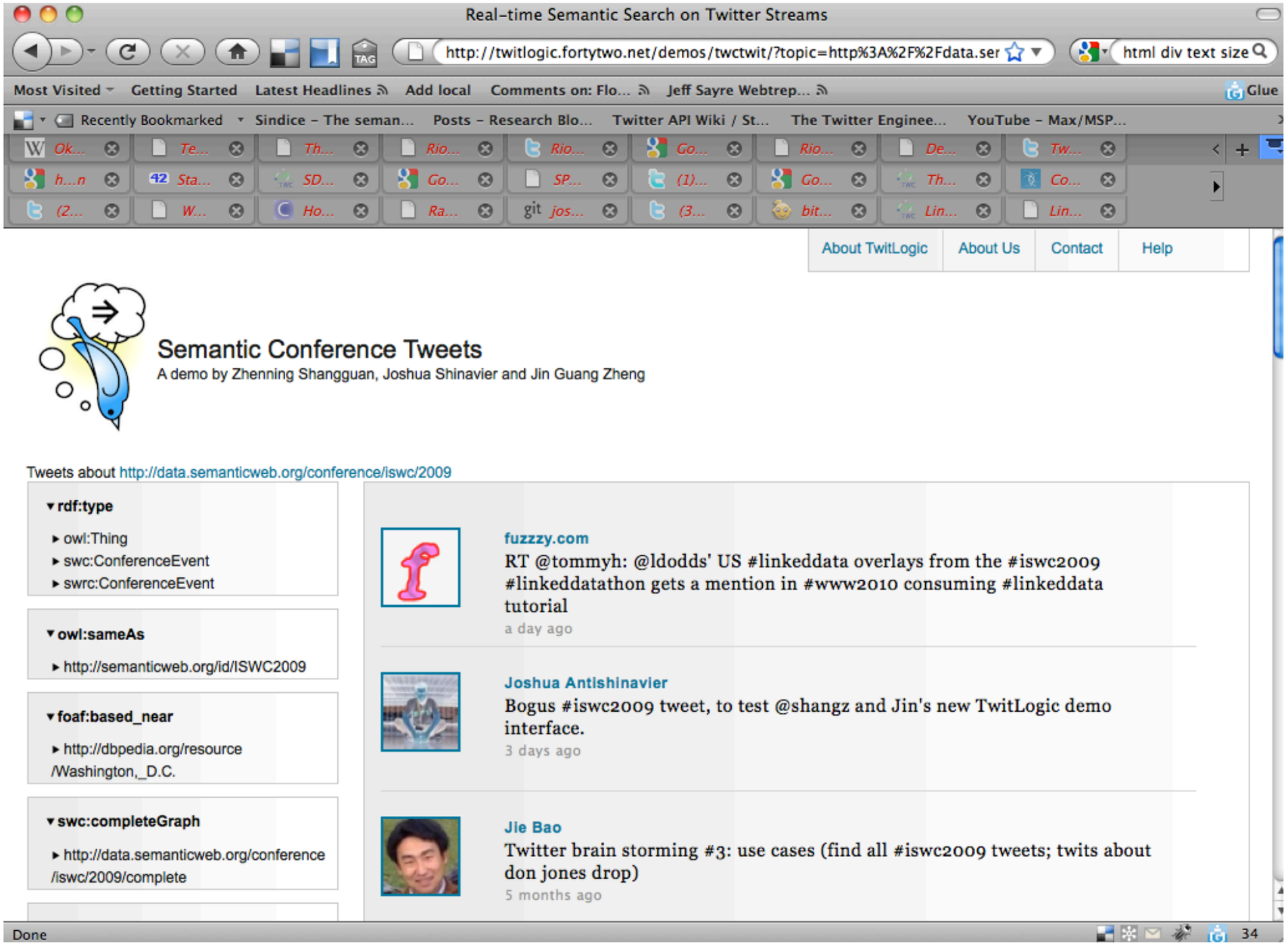
For example...

#sioclog (see http://bit.ly/2uAWo2) makes Linked Data from IRC logs.

Who would have guessed such a funny movie as #ZombieLand (3/4) could be made around zombies?

#websci2010 (= #websci10) is all atwitter with presentations containing the word "tweet".

A demo


Real-time Semantic Search on Twitter Streams
http://twitlogic.fortytwo.net/demos/twctwit/?topic=http%3A%2F%2Fdata.ser
html div text size
Most Visited
Getting Started
Latest Headlines
Add local
Comments on: Flo...
Jeff Sayre Webtrep...
Glue
Recently Bookmarked
Sindice – The seman...
Posts – Research Blo...
Twitter API Wiki / St...
The Twitter Enginee...
YouTube – Max/MSP...
About TwitLogic
About Us
Contact
Help
Semantic Conference Tweets
A demo by Zhenning Shangguan, Joshua Shinavier and Jin Guang Zheng
Tweets about http://data.semanticweb.org/conference/iswc/2009
rdf:type
owl:Thing
swc:ConferenceEvent
swrc:ConferenceEvent
owl:sameAs
http://semanticweb.org/id/ISWC2009
foaf:based_near
http://dbpedia.org/resource/Washington,_D.C.
swc:completeGraph
http://data.semanticweb.org/conference/iswc/2009/complete
fuzzzy.com
RT @tommyh: @ldodds' US #linkeddata overlays from the #iswc2009 #linkeddatathon gets a mention in #www2010 consuming #linkeddata tutorial
a day ago
Joshua Antishinavier
Bogus #iswc2009 tweet, to test @shangz and Jin's new TwitLogic demo interface.
3 days ago
Jie Bao
Twitter brain storming #3: use cases (find all #iswc2009 tweets; twits about don jones drop)
5 months ago
Done

More details

- semantic nanoformats
- publication and data ownership
- implementation
- real-time, real-place semantic search
- future work:
  - continuous queries
  - **Twitter Annotations**

Questions...

Links

- TwitLogic
  - http://twitlogic.fortytwo.net
- Tetherless World
  - http://tw.rpi.edu
- Franz Inc.
  - http://www.franz.com
- Contact
  - josh@fortytwo.net
  - @joshsh