

Distributed Semantic Microblogging

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Semantic MicroBlogging - demo timeline

BLOCS • LIGNE DE TEMPS • CARTE

24 MicroBlogPost

21 résultats sur 24 ne peuvent pas être tracés.

Date

- 1 2008-02-05
- 19 2008-02-06
- 4 2008-03-14

Name

- 20 Alexandre Passant
- 4 Tuukka Hastrup

Topic

- 22 (missing this field)
- 1 deri
- 1 foaf

The aggregation service in our prototype deploys the map view of Exhibit to display the location information of the microblog postings.

Introduction

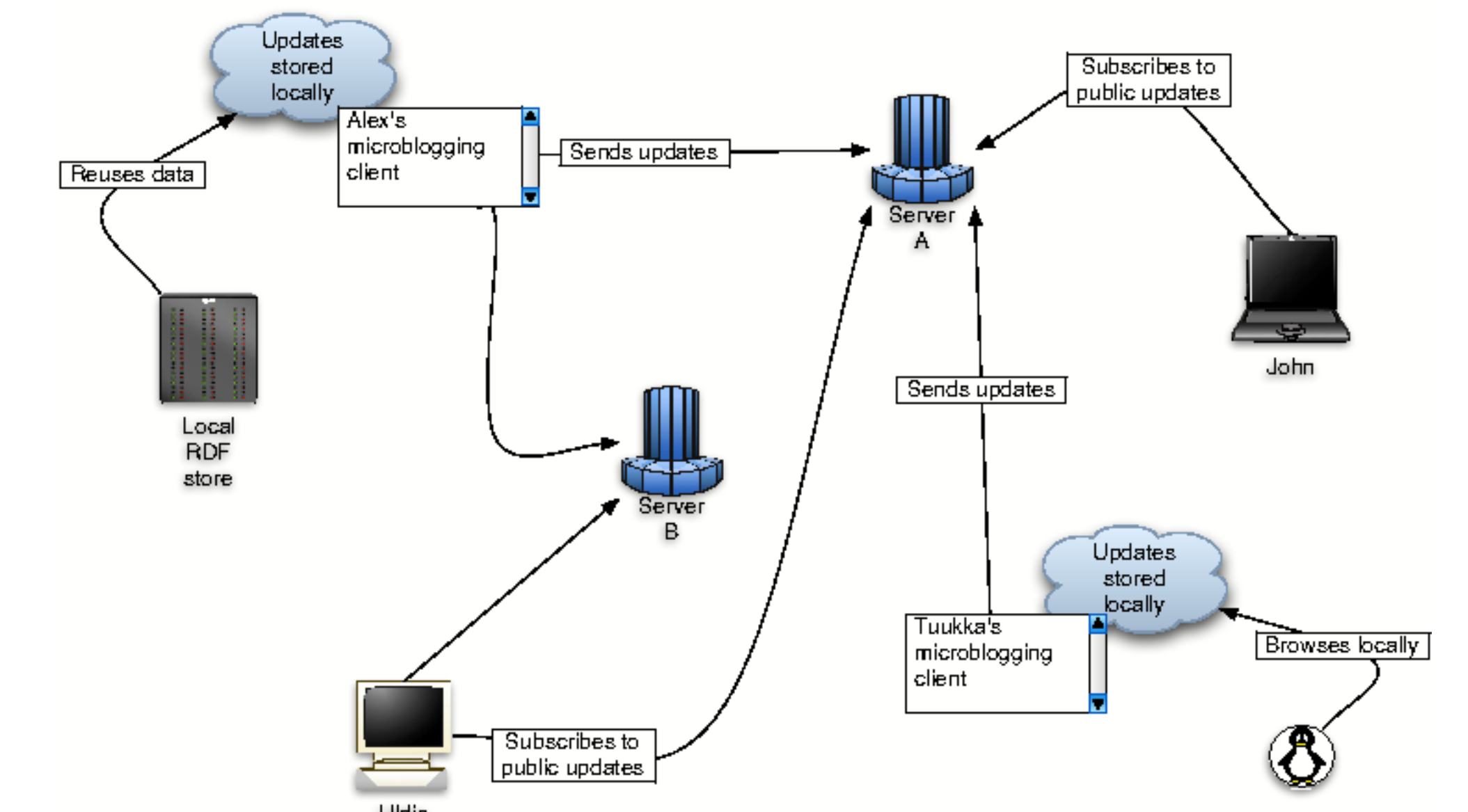
- **Microblogging** (*Twitter, Jaiku* etc.) is a sweet spot between blogging and instant messaging.
- We deploy **semantic technologies** to open the medium for enhancements.
- Our system is not a single Web site, it has a **distributed architecture** on the Web scale.

Aim

- Open microblogging services to **multiple providers** across the Web.
- Enable **data reuse** with standard tools.
- Formalise the **metadata conventions** (*hash tags* etc.) of current communities.
- Enrich content in an **extensible** way.

Architecture

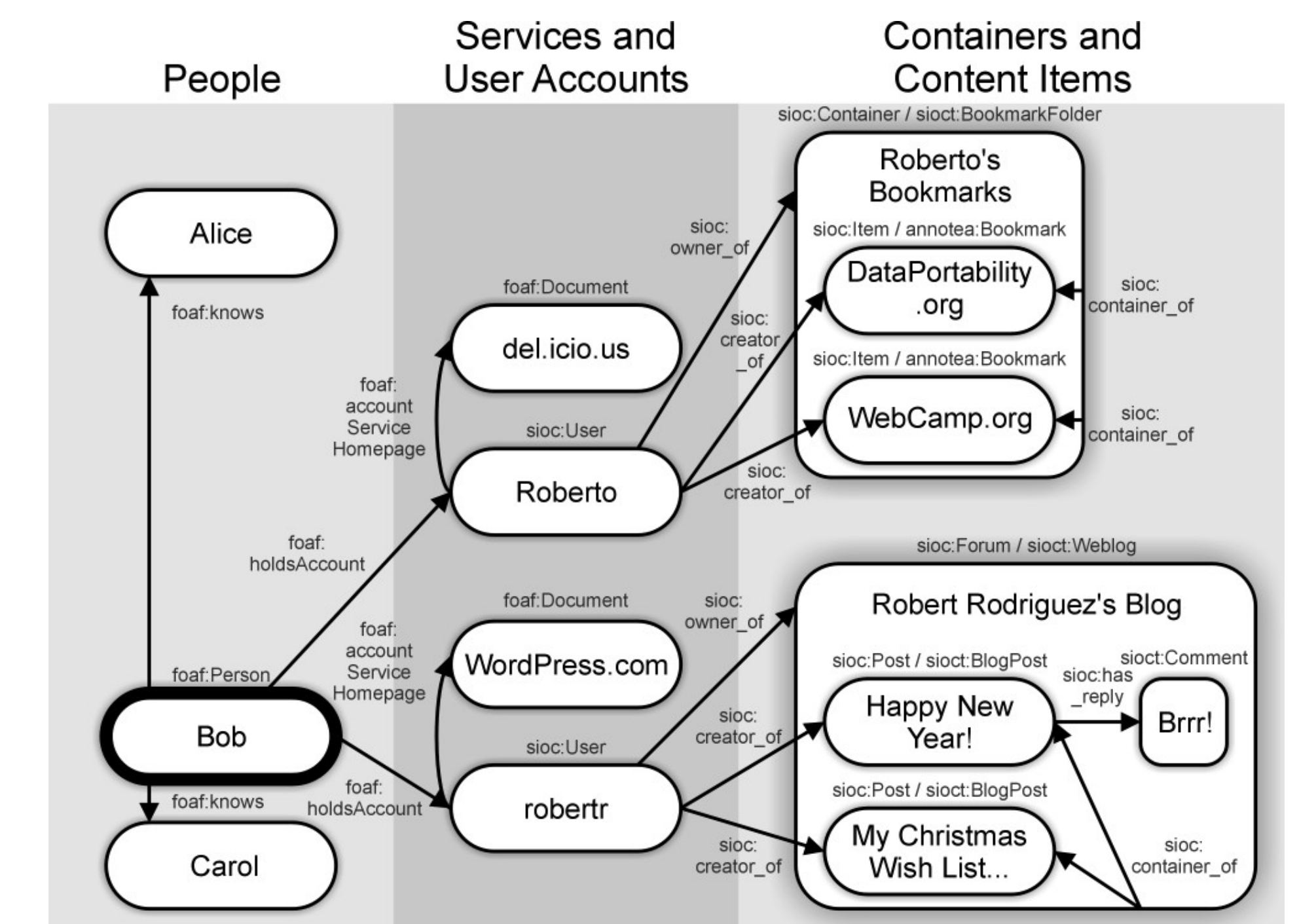
- **RDF** vocabularies and **Linked Data** conventions.
- **FOAF** for people and **SIOC** for content.
- Authors use **publishing services** to store and disseminate their postings.
- Readers use **aggregation services** to follow interesting communities.
- The publisher **pings** aggregators when a new posting appears.



Microblog authors and readers form communities through a distributed network of heterogeneous publishing and aggregating services.

Prototype

- The publishing part is 57 lines in **PHP** using the **SIOC Export API**.
- The publishing part formalises the topics and locations in postings.
- The aggregating part is 100 lines in PHP using the **ARC2** triple store.
- The aggregator has a user interface based on **Exhibit** from MIT Simile.



The layers of information as represented in FOAF and SIOC. The connections build the semantic network of people and their works.

Conclusion

- We have implemented a prototype of distributed semantic microblogging.
- Our prototype employs the architecture and tools of the Semantic Web.
- The project is Free and Open Source software available at <http://smob.googlecode.com/>

Acknowledgements

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24 MicroBlogPost

Trier par : date, puis par... • Grouper selon le tri

- Tuukka Hastrup testing new client 2008-03-14T18:09:21+00:00
- Alexandre Passant test 2008-03-14T03:26:19-07:00
- Alexandre Passant one more test with new config file 2008-03-14T03:22:34-07:00
- Alexandre Passant test 2008-03-14T03:19:16-07:00

Date

- 1 2008-02-05
- 19 2008-02-06
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The Exhibit toolkit from MIT Simile provides us a user interface with several views and faceted browsing of the postings.