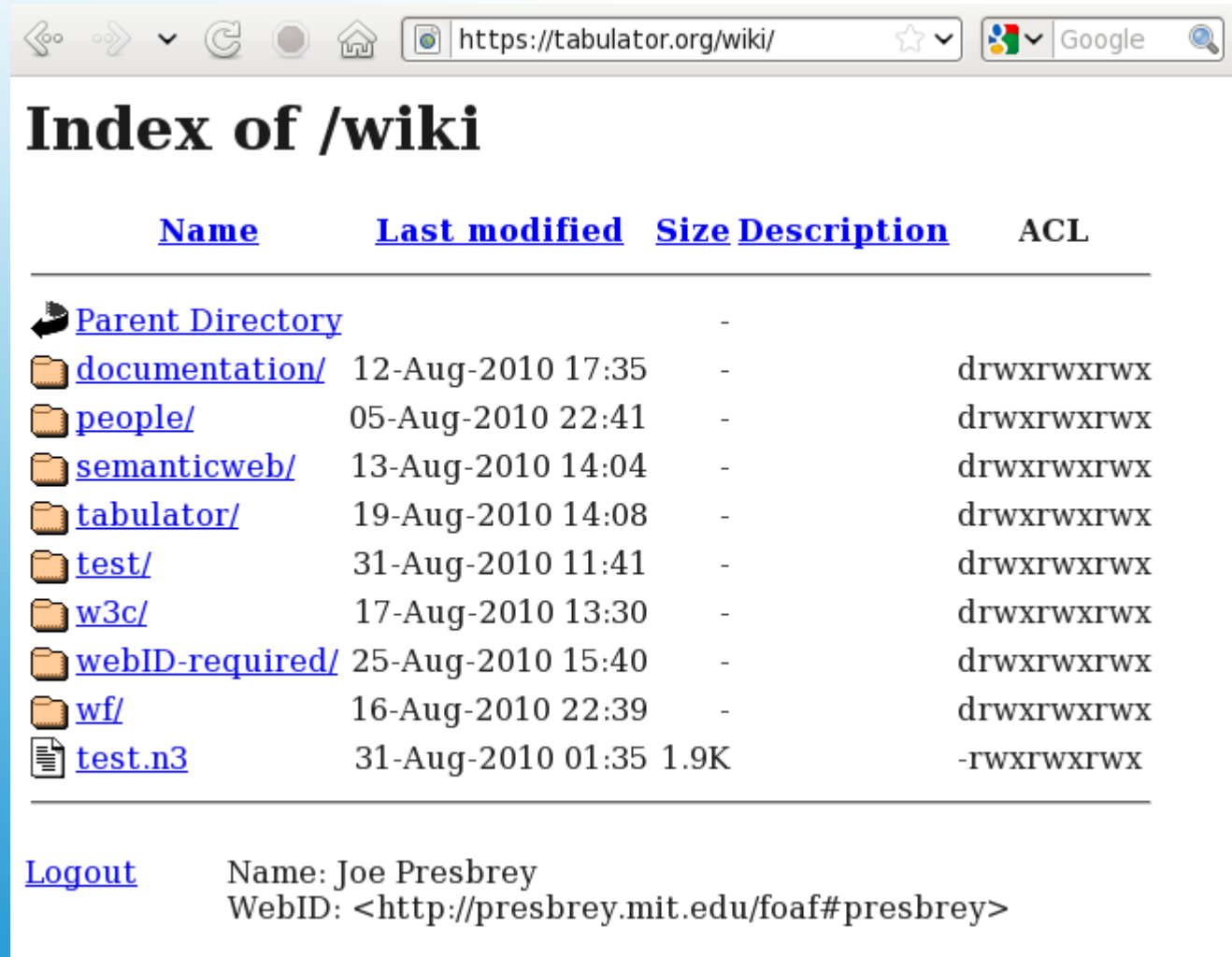Tim Berners-Lee
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DIG Seminar

Aug 31, 2010

Data Wiki
Linked Data Cloud Storage

In the Data Wiki, every document URI is a RDF Named Graph with HTTP methods for:

- GET (RDF/other)
- POST (SPARQL/RDF)
- PUT (RDF/other)
- DELETE

and backend RDF stores:

- Data at [URI].n3
- ACL at ./.meta.n3

Design

- Tabulator
  http://tabulator.org/wiki/tabulator/tracker/issue

- Browsers+JS, w/ eg. JQuery
  http://webr3.org/apps/rdfjson/
  (http://tabulator.org/wiki/tabulator/tracker/state)
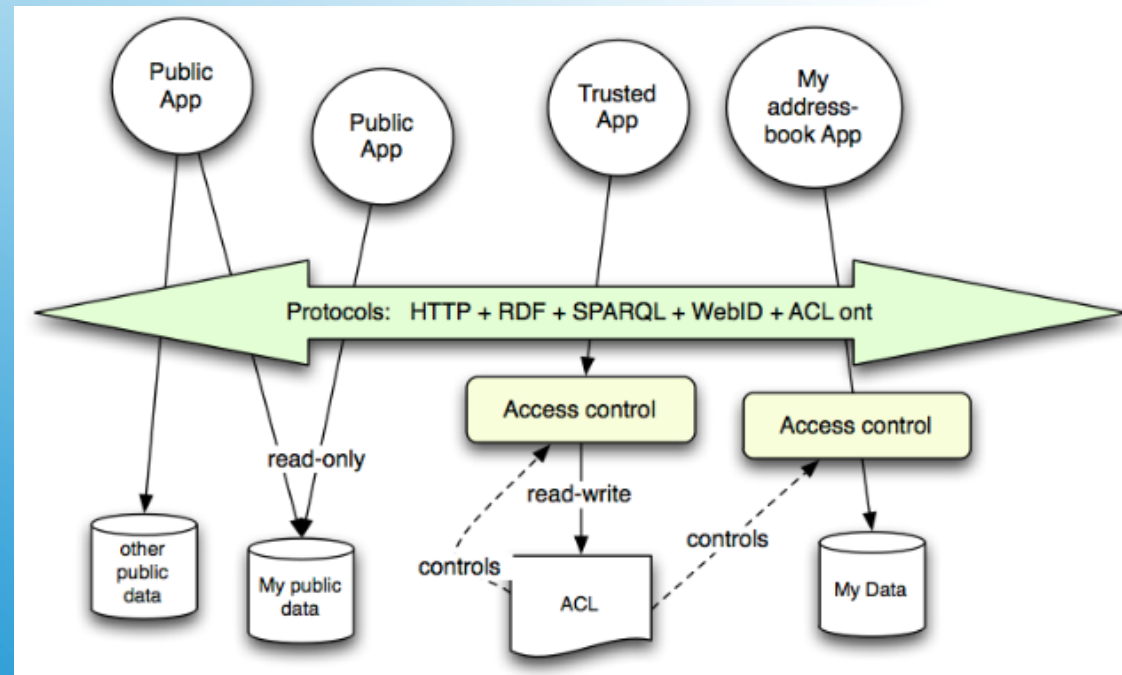
- Amaya

- curl

  – curl -X DELETE http://tabulator.org/wiki/trash/data

  – curl -T foaf.n3 http://tabulator.org/wiki/foaf (PUT)

  – curl -H 'Content-type: application/sparql-query' -d @insert-
    webid.sparql http://tabulator.org/wiki/foaf (POST)

Examples

Protocols

- HTTP/1.1
  - content negotiation
  - WebID auth[nz]: ACL
- SPARQL 1.1
- WebDAV 1

Formats

- N3, RDF/XML, RSS/Atom
- JSON, JSON-P (w/ callback)

Components

- Apache 2
  - mod_auth[nz]_webid
  - mod_fcgid
- Data Wiki (python)
- SWObjects (C++)

Summary

- mod_auth[nz]_webid
  http://dig.csail.mit.edu/2009/mod_authn_webid/
  http://dig.csail.mit.edu/2009/mod_authz_webid/

- Data Wiki
  http://dig.csail.mit.edu/2010/wiki/

- SWObjects (C++)
  http://sourceforge.net/projects/swobjects/

- Web Access Control ontology
  http://www.w3.org/ns/auth/acl

- Socially Aware cloud storage
  http://www.w3.org/DesignIssues/CloudStorage.html

Sources