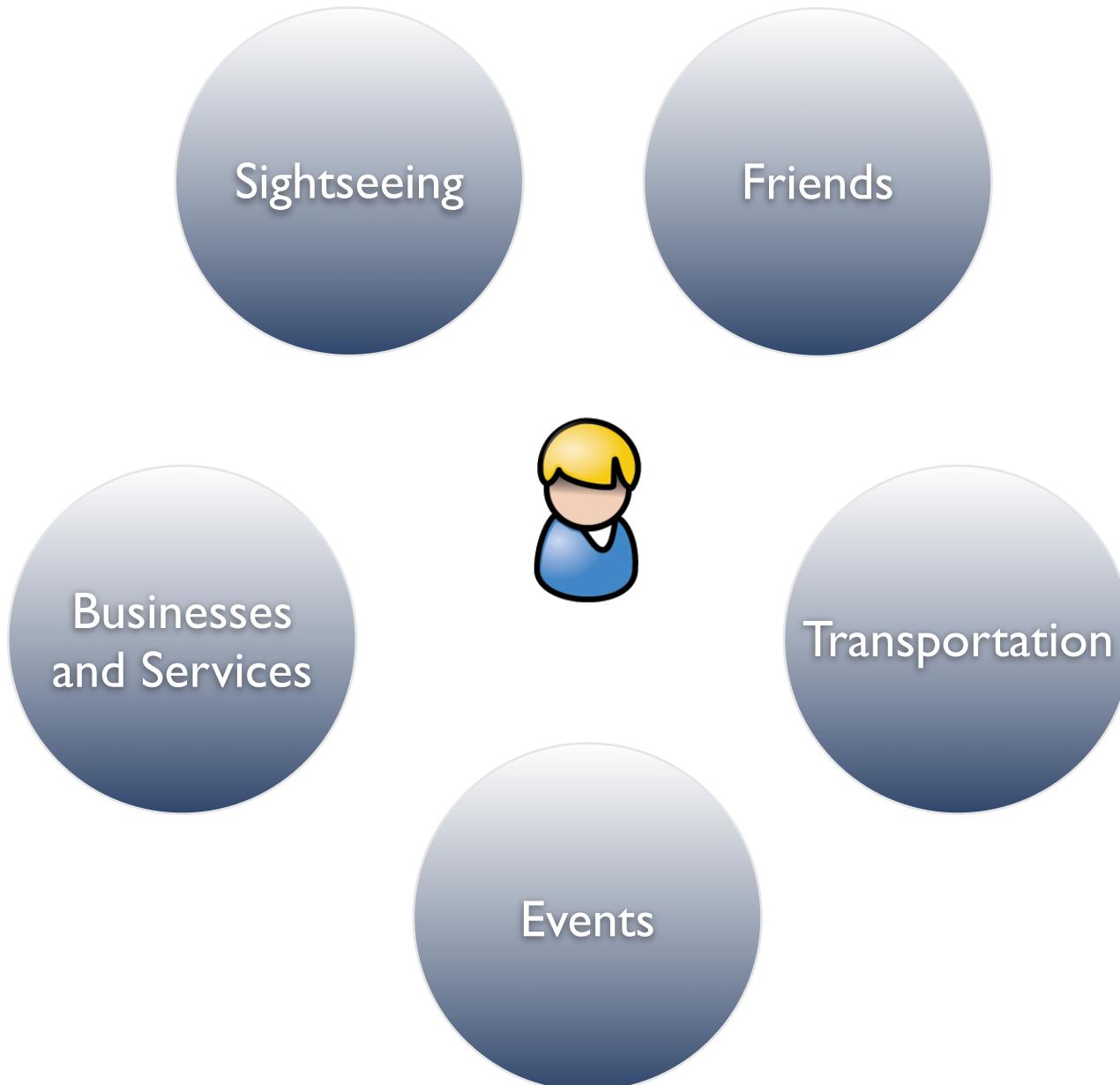

Linked Data on the Web (LDOW2008)
Workshop @ WWW2008, Beijing, China
April 22, 2008

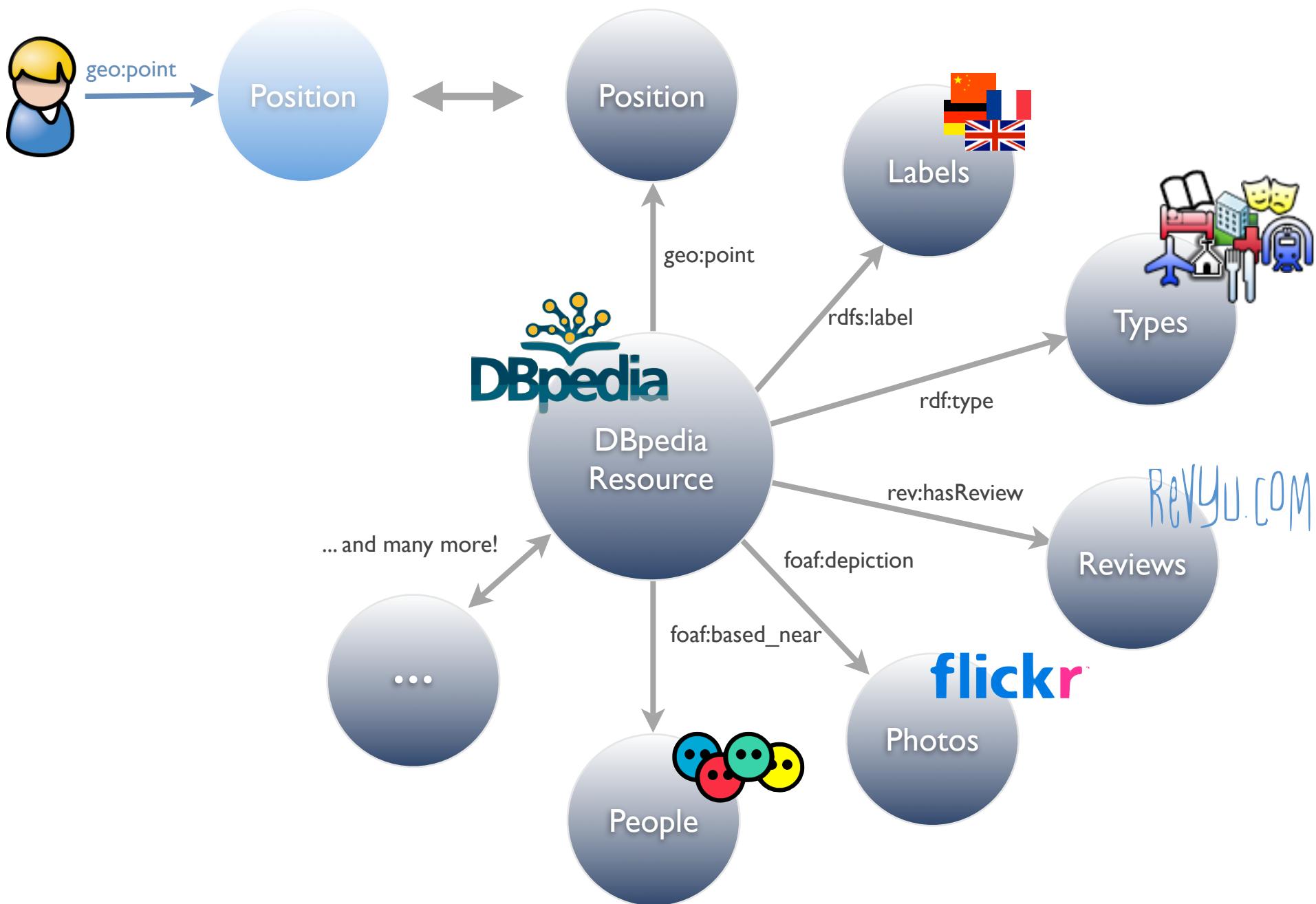
DBpedia Mobile
A Location-Enabled Linked Data Browser

Christian Becker, Freie Universität Berlin
Christian Bizer, Freie Universität Berlin

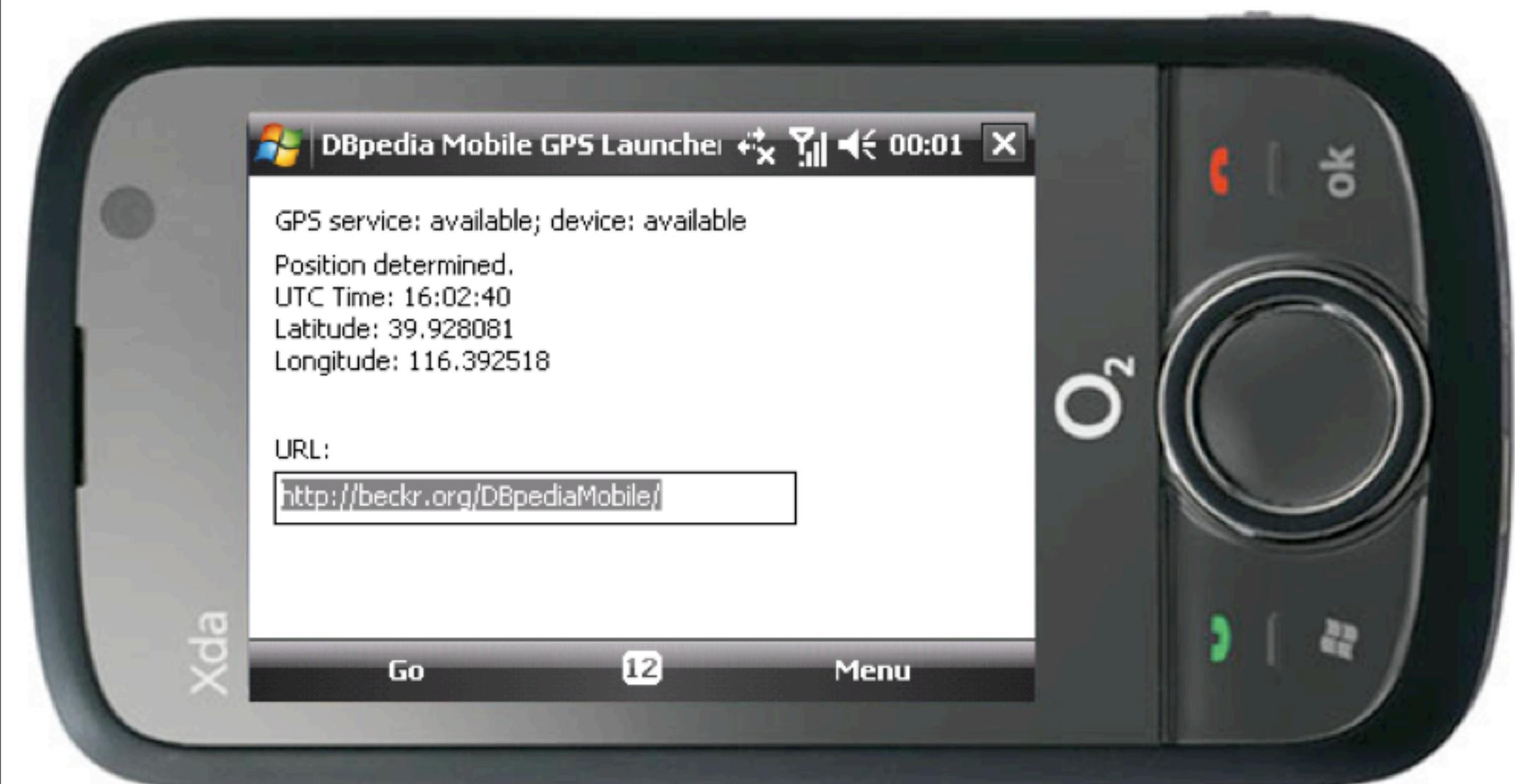
Relevant information for a mobile user



LOD Content for Mobile Users



Browser



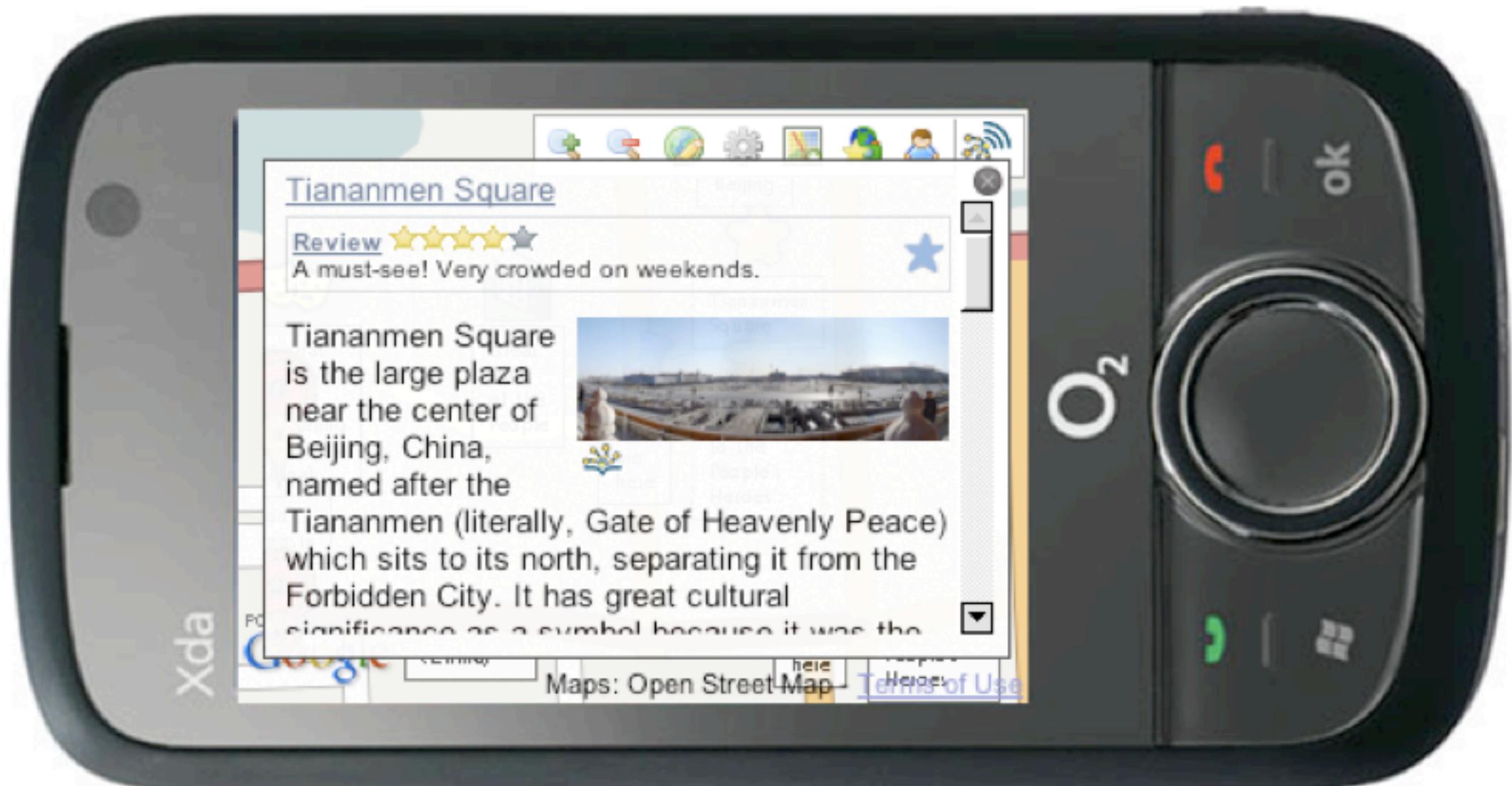
Browser



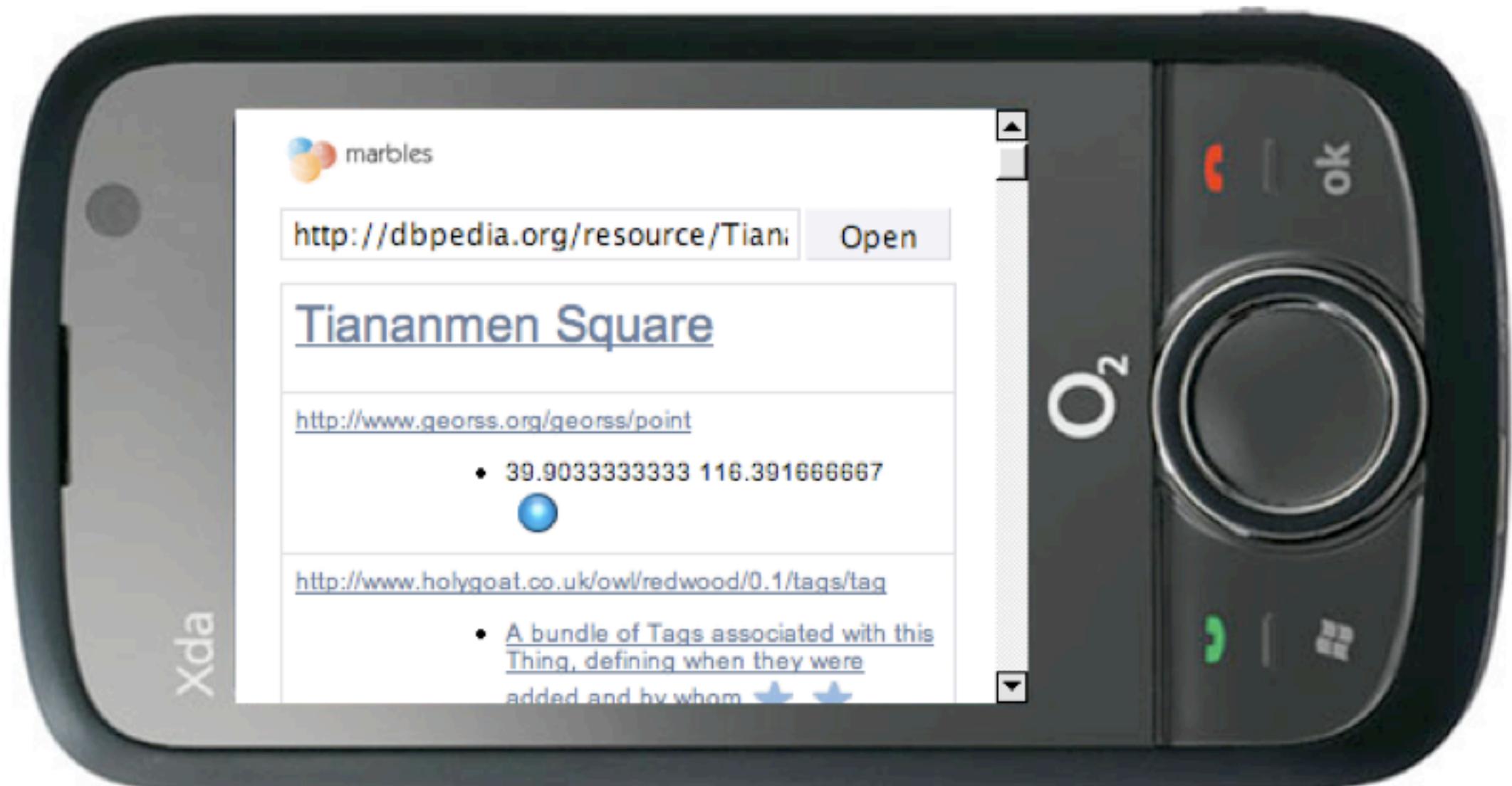
Browser



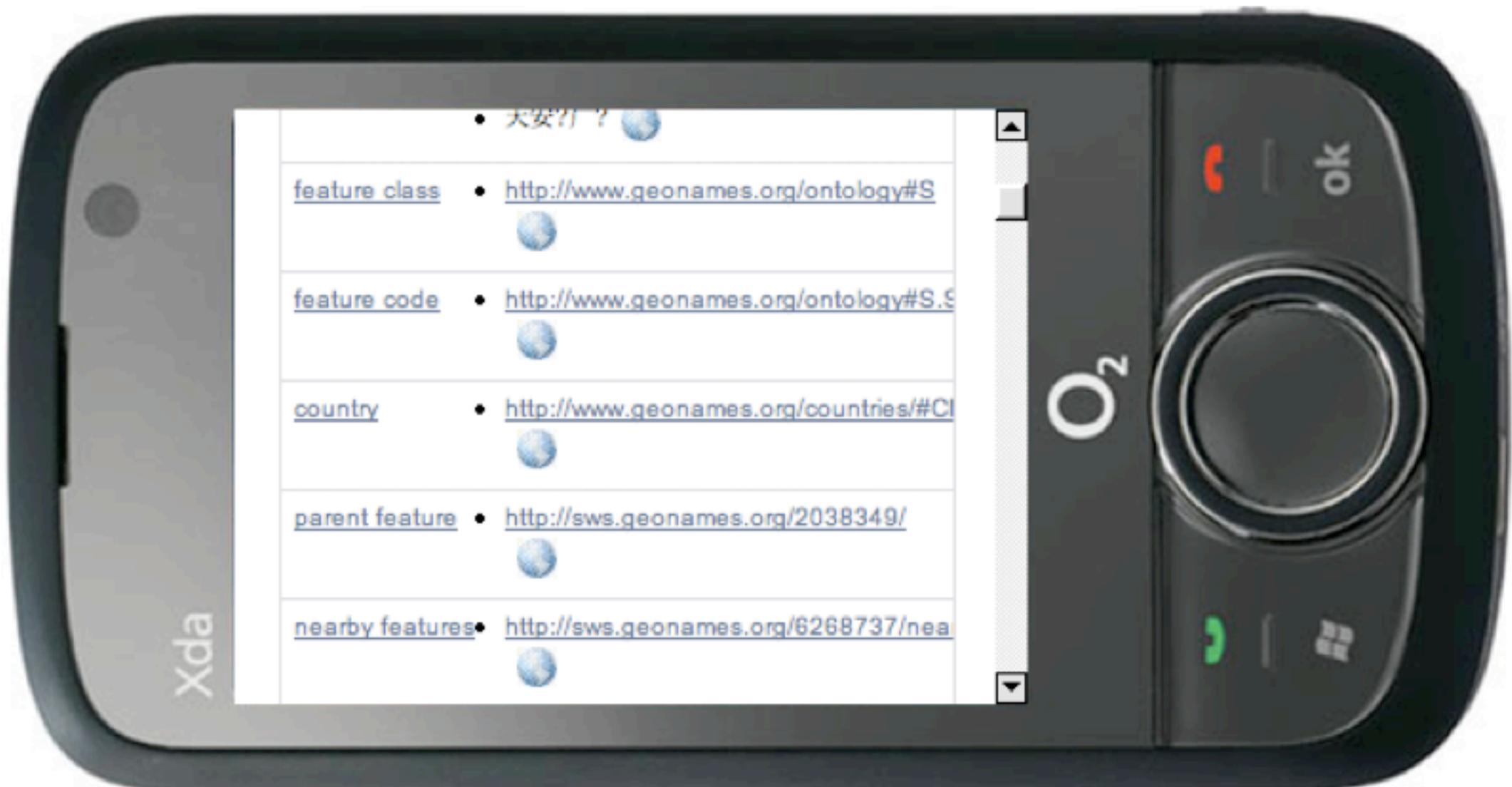
Browser



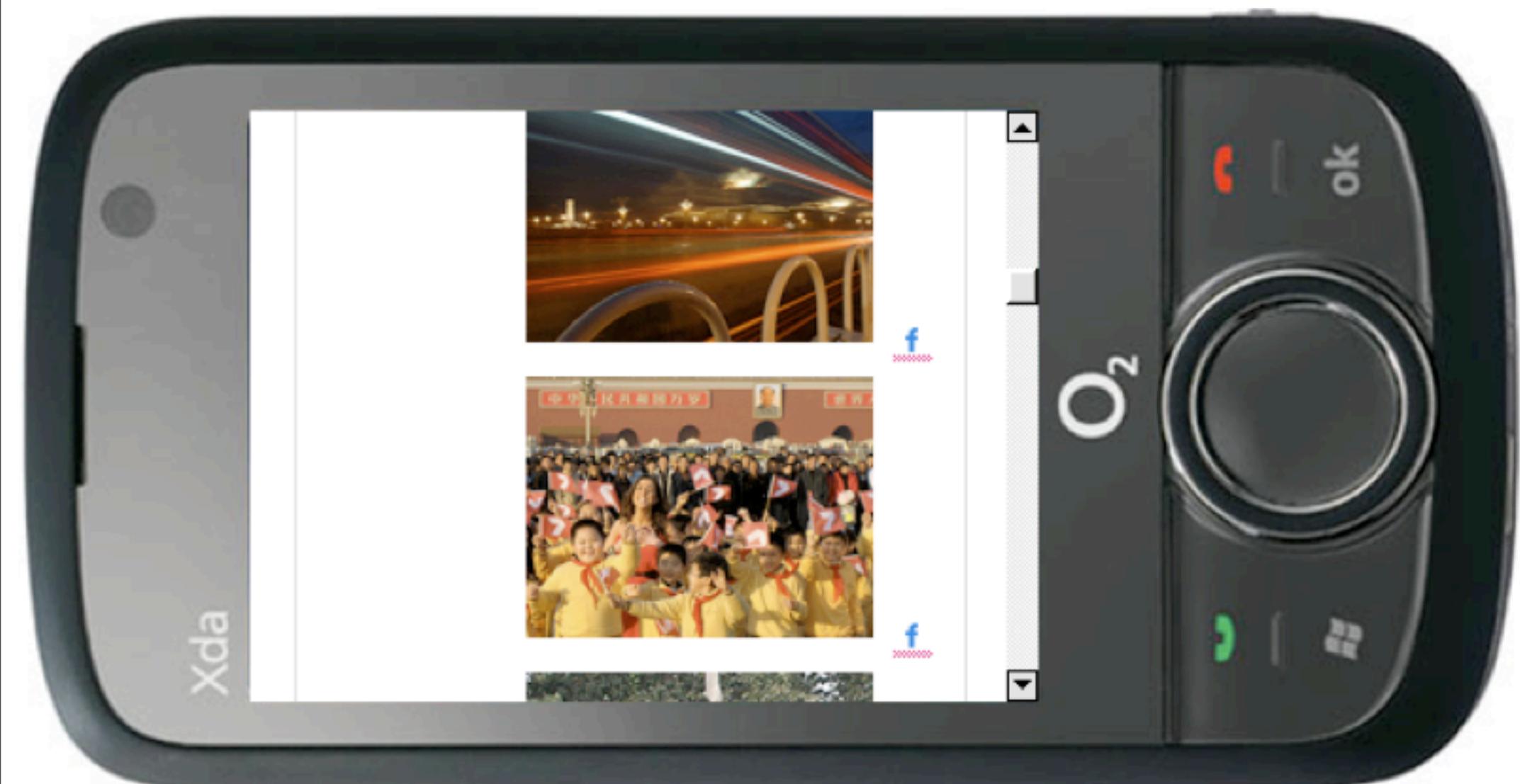
Browser



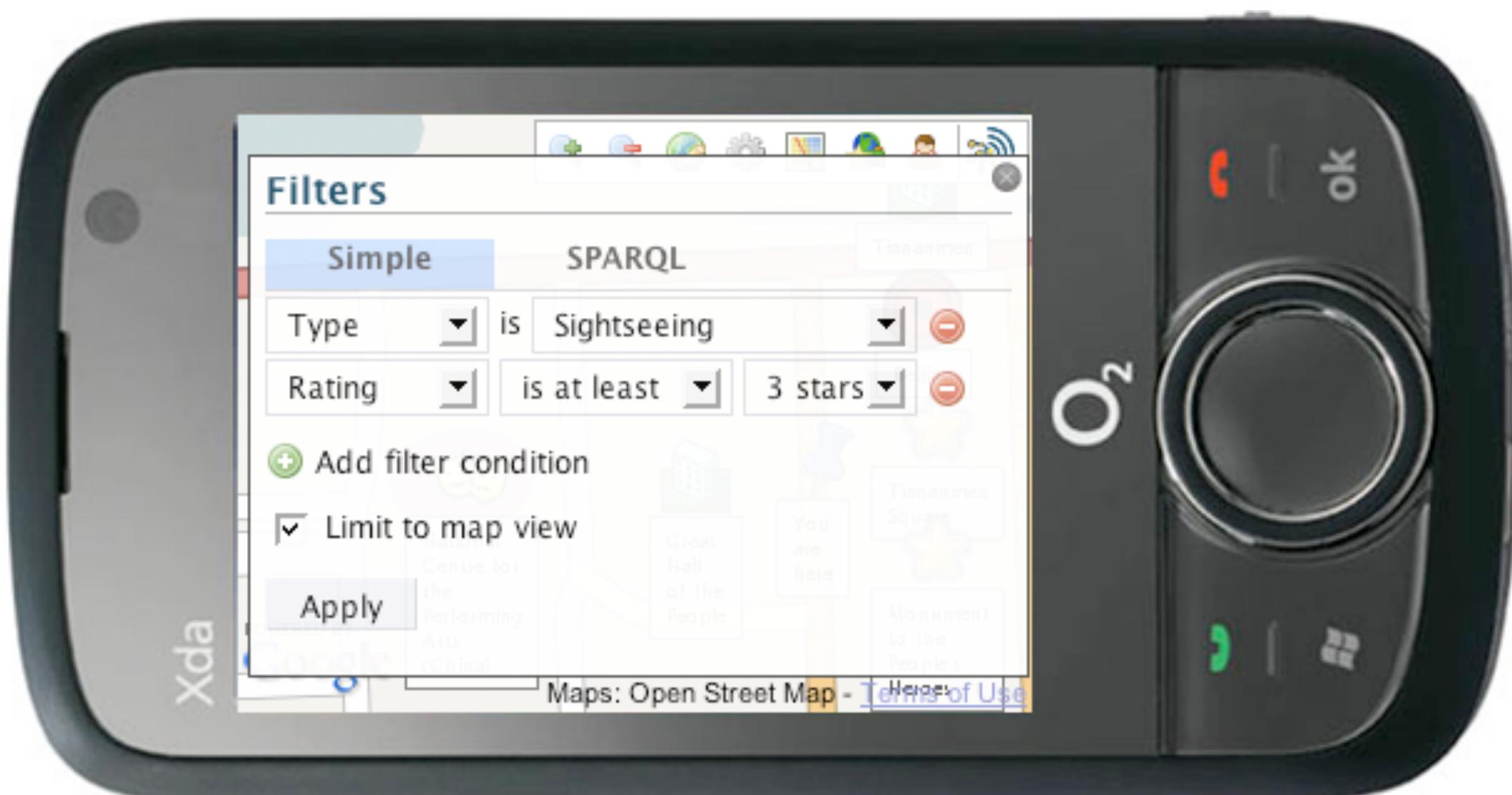
Browser



Browser



Simple Filters



SPARQL Filters

Filters

Simple SPARQL

Stations of Berlin's U7 train line (by chris)

```
PREFIX p: <http://dbpedia.org/resource/>
PREFIX yago: <http://dbpedia.org/class/yago/>

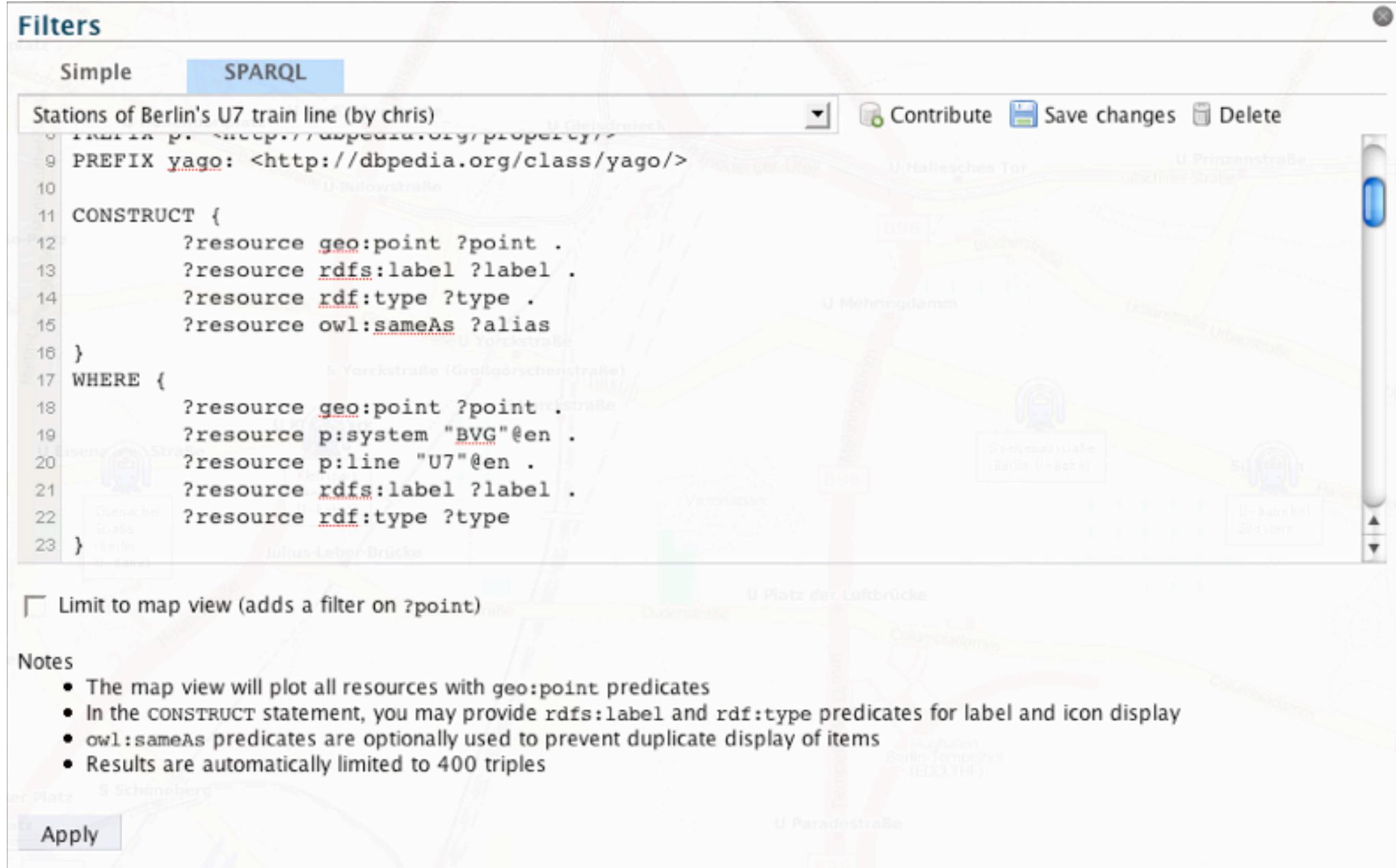
CONSTRUCT {
    ?resource geo:point ?point .
    ?resource rdfs:label ?label .
    ?resource rdf:type ?type .
    ?resource owl:sameAs ?alias
}

WHERE {
    ?resource geo:point ?point .
    ?resource p:system "BVG"@en .
    ?resource p:line "U7"@en .
    ?resource rdfs:label ?label .
    ?resource rdf:type ?type
}
```

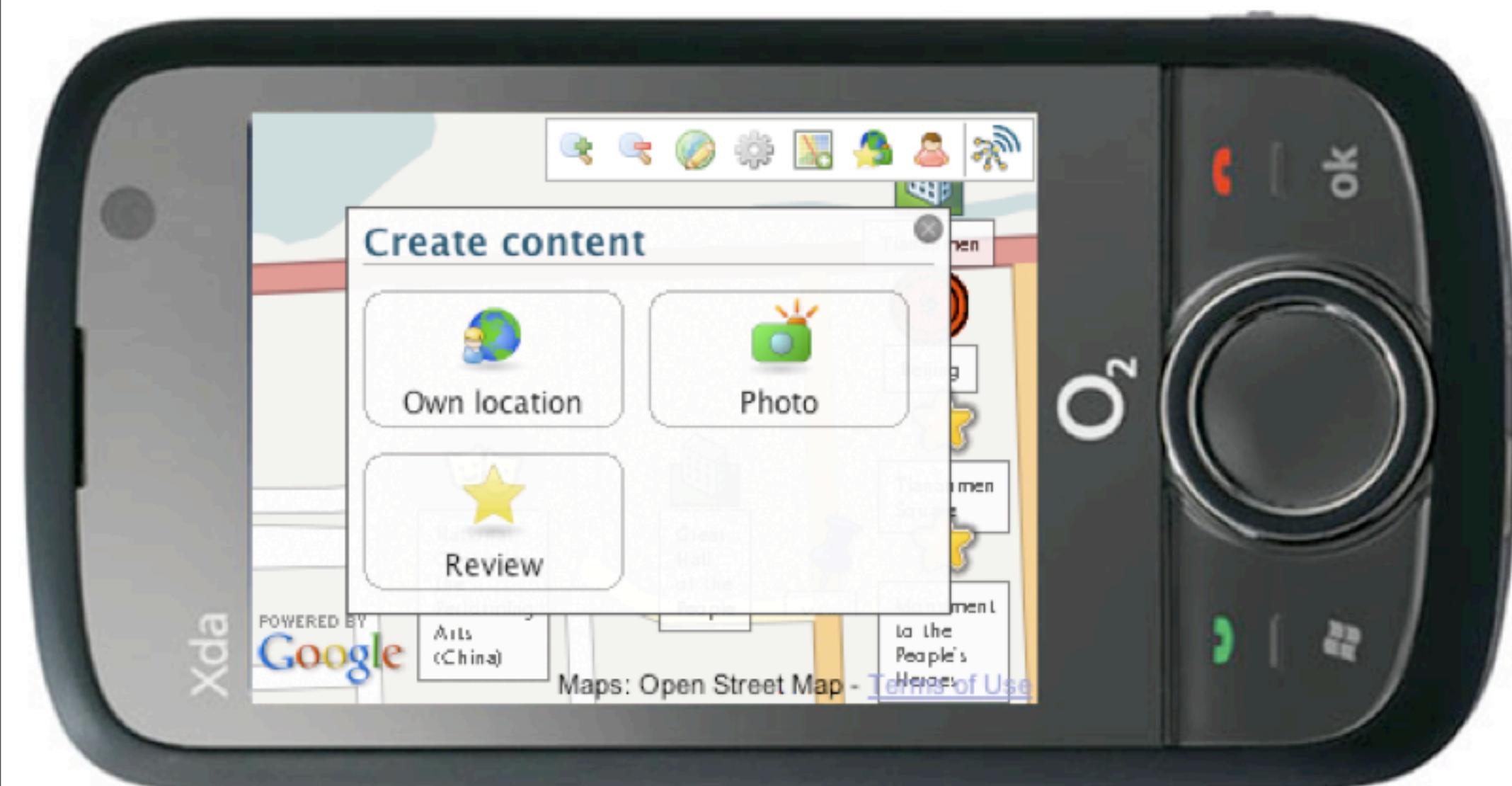
Limit to map view (adds a filter on ?point)

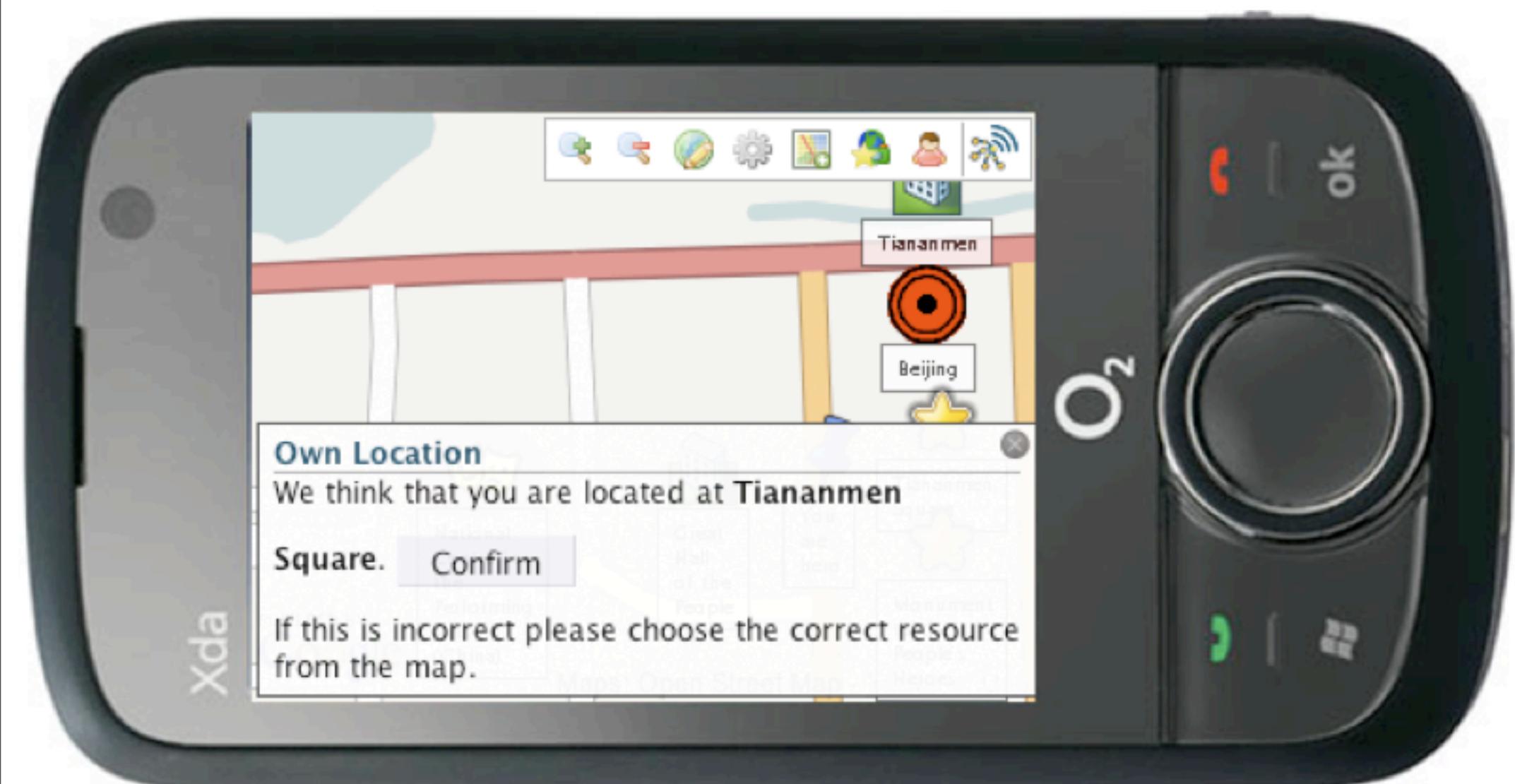
Notes

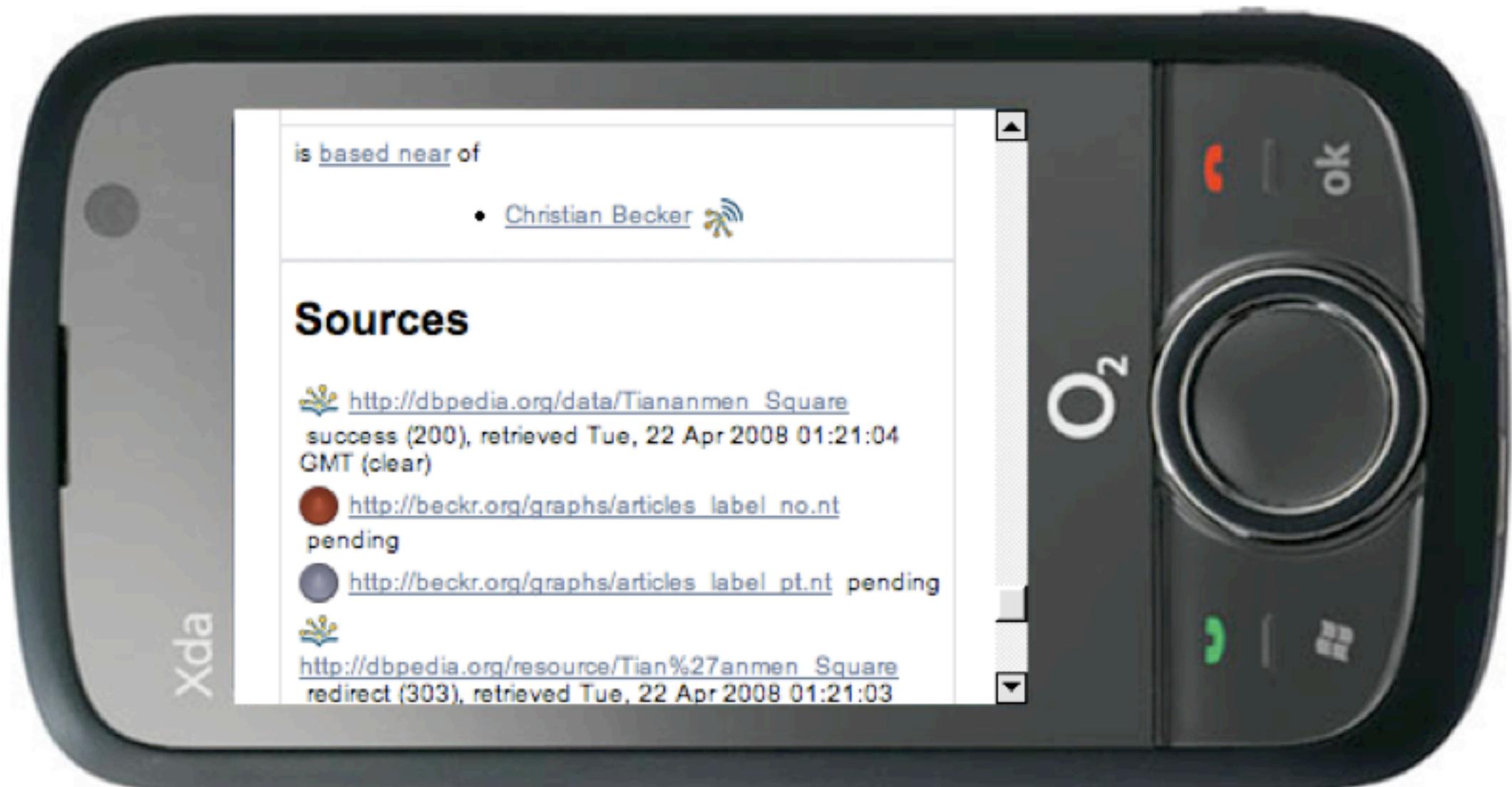
- The map view will plot all resources with geo:point predicates
- In the CONSTRUCT statement, you may provide rdfs:label and rdf:type predicates for label and icon display
- owl:sameAs predicates are optionally used to prevent duplicate display of items
- Results are automatically limited to 400 triples

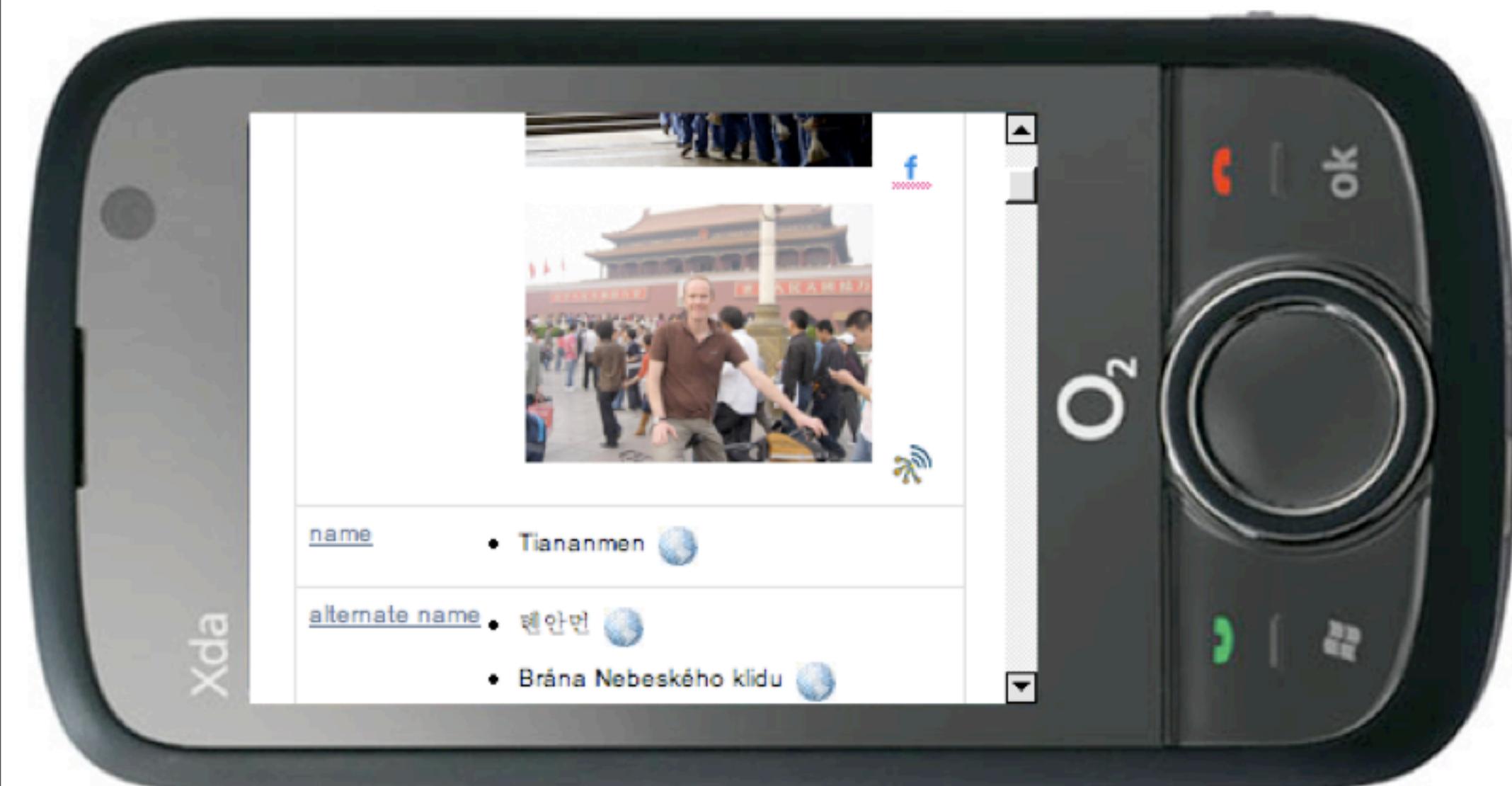


Create









marbles Linked Data Browser

<http://www.w3.org/People/Berners-Lee/card#>

Open



Tim Berners-Lee

<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>

- Person
- <http://www.w3.org/2000/10/swap/pim/contact#Male>
- Tim Berners-Lee
- [Tim Berners-Lee \(also at \[www4.wiwiss.fu-berlin.de\]\(http://www4.wiwiss.fu-berlin.de\)\)](#)

label

sameAs

image



Weblinks

<http://www.w3.org/People/Berners-Lee/>

name

- Tim Berners-Lee
- Timothy Berners-Lee
- Tim Berners Lee

Given name

- Timothy

family name

- Berners-Lee

sha1sum of a personal mailbox URI name

- 965c47c5a70db7407210cef8e4e6f5374a525c6c

workplace homepage

- <http://www.w3.org/>

nickname

- TimBL

nickname

- TimBL

- TimBL

personal mailbox

- <mailto:timbl@w3.org>

marbles Linked Data Browser

	<ul style="list-style-type: none">• Tim Berners-Lee's FOAF file
is member of	<ul style="list-style-type: none">• http://dig.csail.mit.edu/data#DIG
is http://www.w3.org/2000/10/swap/pim/contact#participant of	<ul style="list-style-type: none">• Identity, Reference and the Web workshop 2008• The Next Wave of the Web (Plenary Panel)
is Creator of	<ul style="list-style-type: none">• Weaving the Web: The Original Design and Ultimate Destiny of the World Wide Web (also at www4.wiwiss.fu-berlin.de)
is http://xmlns.com/wot/0.1/identity of	<ul style="list-style-type: none">• (anonymous node)

Sources

- <http://www4.wiwiss.fu-berlin.de/bookmashup/books/000251587X> redirect (303), retrieved Wed, 19 Mar 2008 22:45:55 GMT (clear)
- <http://revyu.com/sparr?query=PREFIX+rev%3A+%3Chttp%3A%2F%2Fpurl.org%2Fpsi%2Frev%29%3E%0APREFIX+rdfs%3A+%3Chttp%3A%2F%2Fwww.w3.org%2F2000%2F01%2F rdf...> success (200), retrieved Wed, 19 Mar 2008 22:45:53 GMT (clear)
- <http://www4.wiwiss.fu-berlin.de/bookmashup/doc/books/000251587X> success (200), retrieved Wed, 19 Mar 2008 22:45:58 GMT (clear)
- <http://apeasant.net/home/2007/12/flickr.rdf/data/people/26226551@N00> success (200), retrieved Wed, 19 Mar 2008 22:46:56 GMT (clear)
- <http://www.w3.org/People/Berners-Lee/cars> success (200), retrieved Wed, 19 Mar 2008 22:46:53 GMT (clear)
- <http://dbtune.org/last-fm/kidhehen> redirect (303), retrieved Sun, 16 Mar 2008 23:40:53 GMT (clear)
- http://dbpedia.org/resource/John_Gage redirect (303), retrieved Sun, 16 Mar 2008 23:39:39 GMT (clear)
- <http://presbrey.mit.edu/foaf.rdf> success (200), retrieved Sun, 16 Mar 2008 23:39:44 GMT (clear)
- <http://dbtune.org/last-fm/kidhehen.rdf> success (200), retrieved Sun, 16 Mar 2008 23:41:03 GMT (clear)
- <http://web.mit.edu/ruthdhan/www/foaf.rdf> success (200), retrieved Sun, 16 Mar 2008 23:39:44 GMT (clear)
- <http://www.cs.umd.edu/~hendler/2003/foaf.rdf> success (200), retrieved Sun, 16 Mar 2008 23:39:43 GMT (clear)
- <http://people.csail.mit.edu/nyanlee/about> success (200), retrieved Sun, 16 Mar 2008 23:39:44 GMT (clear)
- http://dbpedia.org/data/Tim_Bray success (200), retrieved Sun, 16 Mar 2008 23:39:46 GMT (clear)
- <http://my.opera.com/howcome/xml/foaf> success (200), retrieved Sun, 16 Mar 2008 23:39:40 GMT (clear)
- http://dbpedia.org/data/John_Seely_Brown success (200), retrieved Sun, 16 Mar 2008 23:39:45 GMT (clear)
- <http://rdf.ecs.soton.ac.uk/person/1269> failed (404), retrieved Sun, 16 Mar 2008 23:39:49 GMT (clear)
- http://dbpedia.org/data/John_Gage success (200), retrieved Sun, 16 Mar 2008 23:39:45 GMT (clear)
- <http://eikeon.com/foaf.rdf> success (200), retrieved Sun, 16 Mar 2008 23:39:40 GMT (clear)
- http://dbpedia.org/resource/John_Seely_Brown redirect (303), retrieved Sun, 16 Mar 2008 23:39:39 GMT (clear)
- <http://id.ecs.soton.ac.uk/person/80> redirect (303), retrieved Sun, 16 Mar 2008 23:39:40 GMT (clear)
- <http://rdf.ecs.soton.ac.uk/person/80> success (200), retrieved Sun, 16 Mar 2008 23:39:49 GMT (clear)
- <http://my.opera.com/chaals/xml/foaf> success (200), retrieved Sun, 16 Mar 2008 23:39:41 GMT (clear)
- <http://dig.csail.mit.edu/People/RRS> redirect (303), retrieved Sun, 16 Mar 2008 23:39:44 GMT (clear)
- <http://community.linkeddata.org/dataspace/person/ivan> success (200), retrieved Wed, 19 Mar 2008 22:45:55 GMT (clear)
- <http://people.apache.org/~oshan/foaf.rdf> success (200), retrieved Sun, 16 Mar 2008 23:39:41 GMT (clear)
- <http://www4.wiwiss.fu-berlin.de/bookmashup/persons/Tim%2BBerners-Lee> redirect (303), retrieved Sun, 16 Mar 2008 23:39:39 GMT (clear)
- <http://myopenlink.net/dataspace/person/kidhehen> success (200), retrieved Sun, 16 Mar 2008 23:39:50 GMT (clear)



- **Renders XHTML views from RDF data using Fresnel, XSLT and CSS**
- **Persistent graph with caching behavior**
- **Follows known predicates (`owl:sameAs`, `rdfs:seeAlso`) to obtain more information and human-friendly labels**
- **Can act as SPARQL Endpoint**
- **Based on Sesame 2.1 with MySQL storage, Simile Fresnel / IsaViz-FSL (all extended)**

Thanks

■ Outlook

- **GeoNames integration pending**
- **We need more wrappers and converted datasets!**
 - last.fm, OpenStreetMap and Google Transit
 - Chefmoz dataset requires cleanup, geocoding and linking

■ Thanks to the Student Travel Award sponsors



■ More information and demos at

<http://wiki.dbpedia.org/DBpediaMobile>