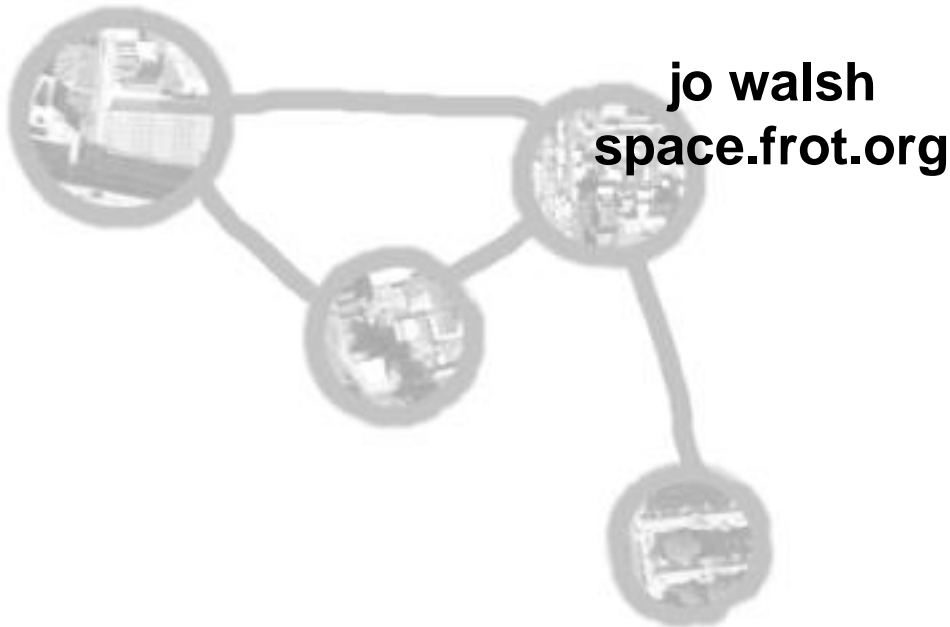
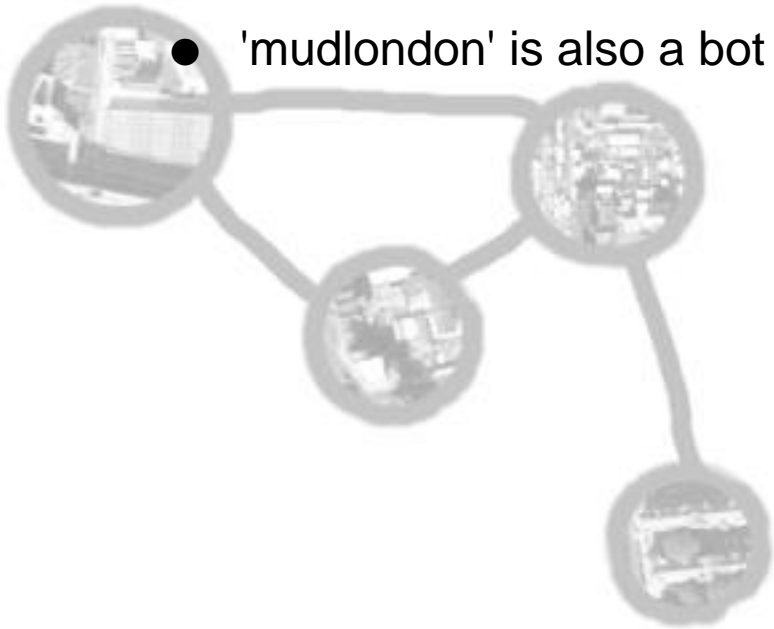


collaboratively mapping london on the semantic web



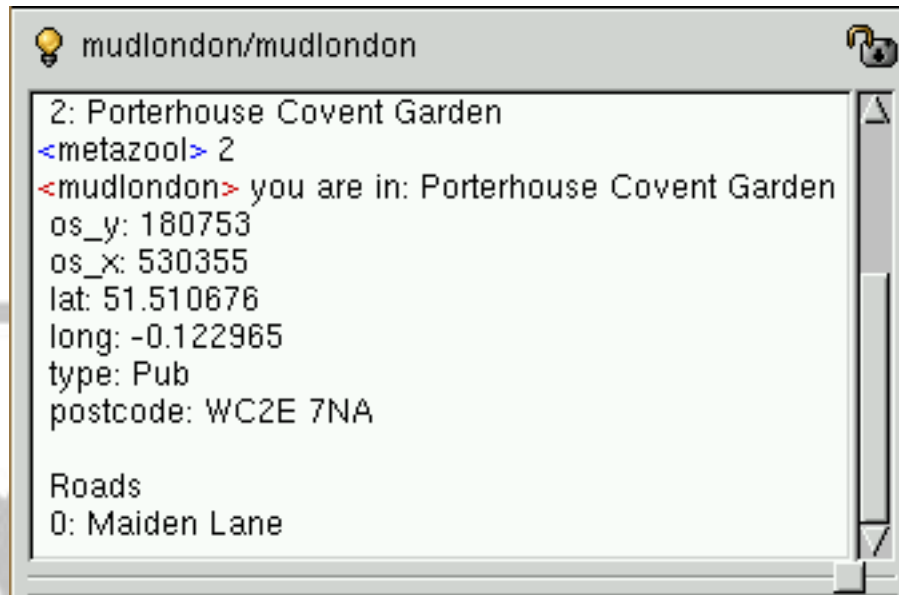
mudlondon - london in RDF

- 'mudlondon' is an RDF graph model of london
- it is addressable via the web in a REST style
- it provides a scheme to identify places by a unique URI
- the URI can be dereferenced by a bot or spider to see metadata about that place
- 'mudlondon' is also a bot that talks jabber and AIM.



mudlondon bot (jabber/AIM)

- the bot uses the RESTful web interface as a 'brain'



RDF view of mudlondon's brain

```
<space:space
  rdf:about='/london/Porterhouse_Covent_Garden#space'>
  <space:os_y>180753</space:os_y>
  <space:type>Pub</space:type>
  <space:name>Porterhouse Covent Garden</space:name>
  <space:postcode>WC2E 7NA</space:postcode>
  <space:os_x>530355</space:os_x>
  <owl:Class>/rdf/space.daml#Pub</owl:Class>
  <geo:long>-0.122965</geo:long>
  <geo:lat>51.510676</geo:lat>
  <space:connects>
    <rdf:Description rdf:about='/london/Maiden_Lane#space'>
      <space:name>Maiden Lane</space:name>
      <rdfs:seeAlso rdf:resource='/london/Maiden_Lane#space' />
      <space:type>Road</space:type>
    </rdf:Description>
  </space:connects>
</space:space>
```



further conversation with the bot

- the bot allows for tagging locations with different metadata properties
- and commenting on them, using the FOAF vocabulary for people




```
mudlondon/mudlondon
<metazool> comment nice house beers, but this
huuuge place tends to be crowded with braying suits
<mudlondon> commented on Porterhouse Covent
Garden
<metazool> 0
<mudlondon> you are in: Maiden Lane
type: Road

Pubs
0: Porterhouse Covent Garden
Roads
1: Bedford Street
2: South Street
```

more RDF brains

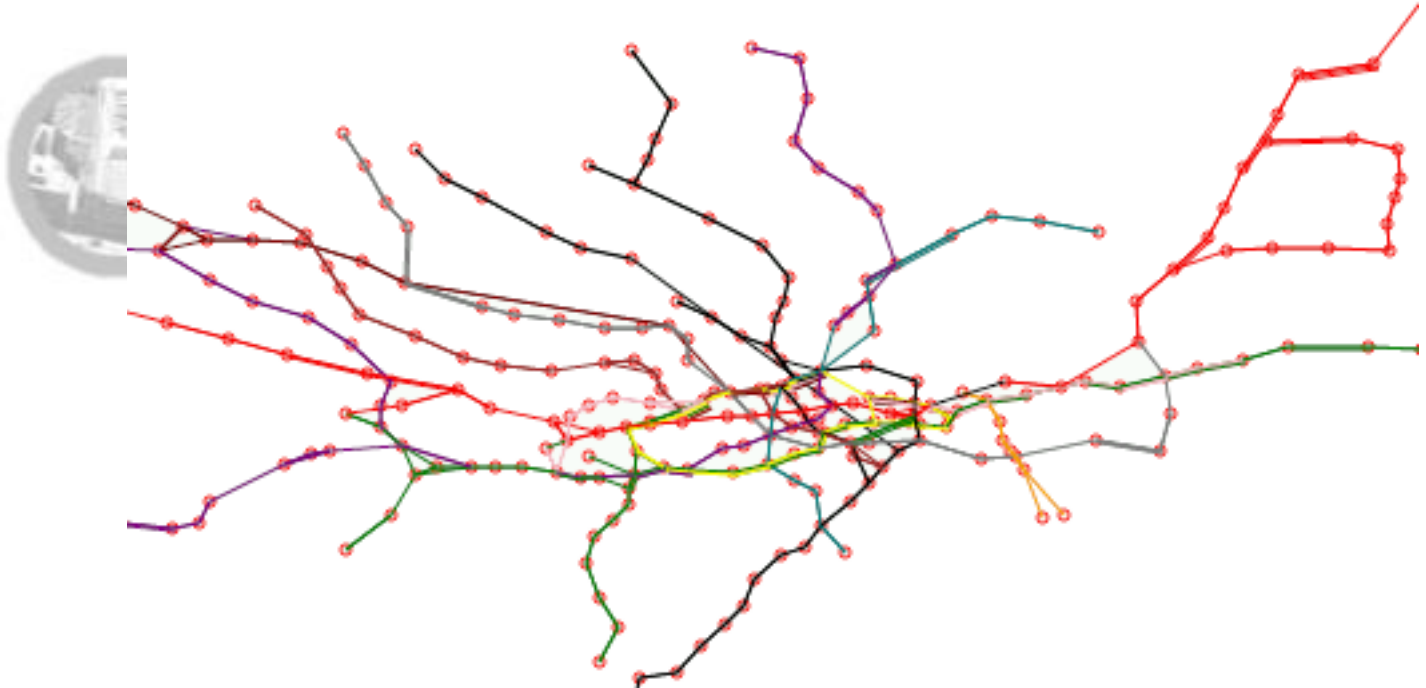
```
<space:comment>
<rdf:Description
  rdf:about='/london/Porterhouse_Covent_Garden#space'>
  <foaf:nick>metazool</foaf:nick>
  <dc:date>2003-03-12</dc:date>
  <dc:text>nice house beers, but this huuuge place
    tends to be crowded with braying suits</dc:text>
</rdf:Description>
</space:comment>
```

```
<space:near>
<rdf:Description rdf:about="/london/Chandos#space">
  <space:name>Chandos</space:name>
  <space:distance>0.43 miles</space:distance>
  <rdfs:seeAlso rdf:resource="/london/Chandos#space"/>
</rdf:Description>
</space:near>
```



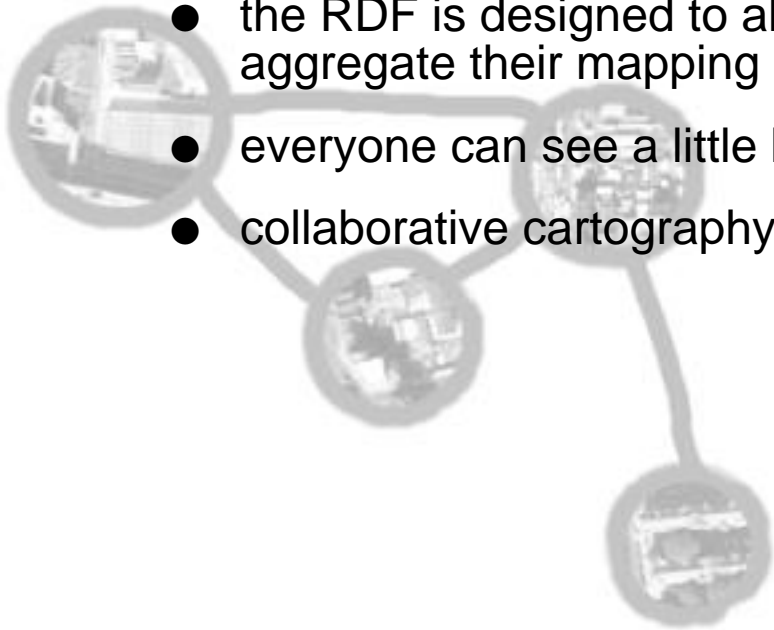
SVG map of the RDF tube model

- RDF's graph model is ideal for routefinding traversal
- OWL rules allow us to encapsulate psychological factors in logical inference



where does the data come from?

- it comes from open community review sites like knowhere.co.uk and grault.net/grubstreet/
- the tube model was scraped from free locator services like tubeplanner.com
- it has in the past used Streetmap.pm
- the RDF is designed to allow open data sites to share and aggregate their mapping information
- everyone can see a little bit of the picture
- collaborative cartography is an exit route from OS hegemony



thanks!

