

Linked Open Data in 10 Minutes

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Linked Data?

What do you get when you cross **the Web** with all your Spreadsheets?

How do you safely expose your databases to the public?

What if people could merge them all?

The Elements of Linked Data

- Use RDF **Triples**
- Expose as Web Resources
- Identify each entity with a **URL (URI)**

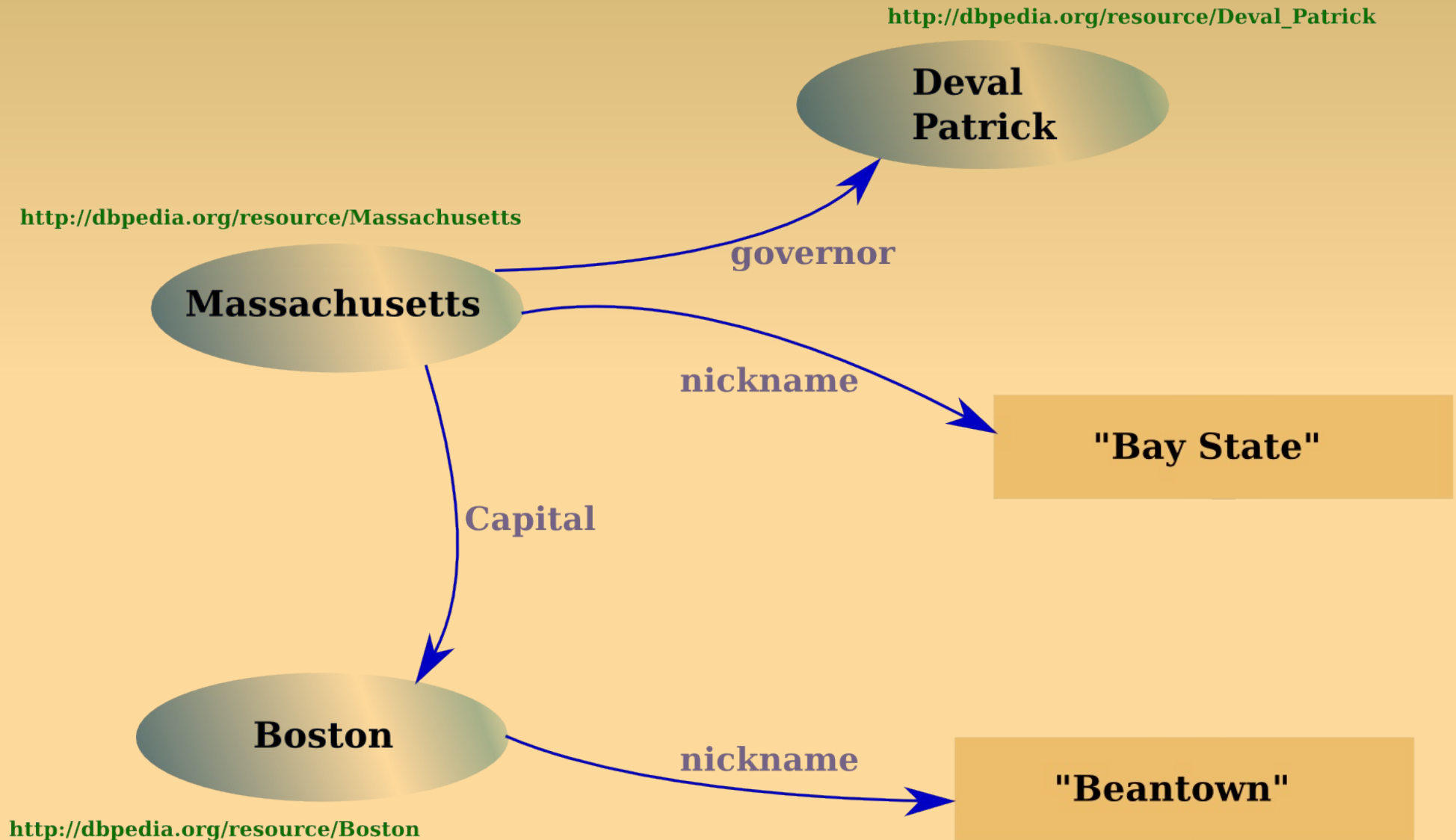
<http://dbpedia.org/resource/Massachusetts>



Data at <http://dbpedia.org/resource/Massachusetts>

Subject	Property	Value
http://.../Massachusetts	nickname	"Bay State"
...

Step 1: Think in Triples



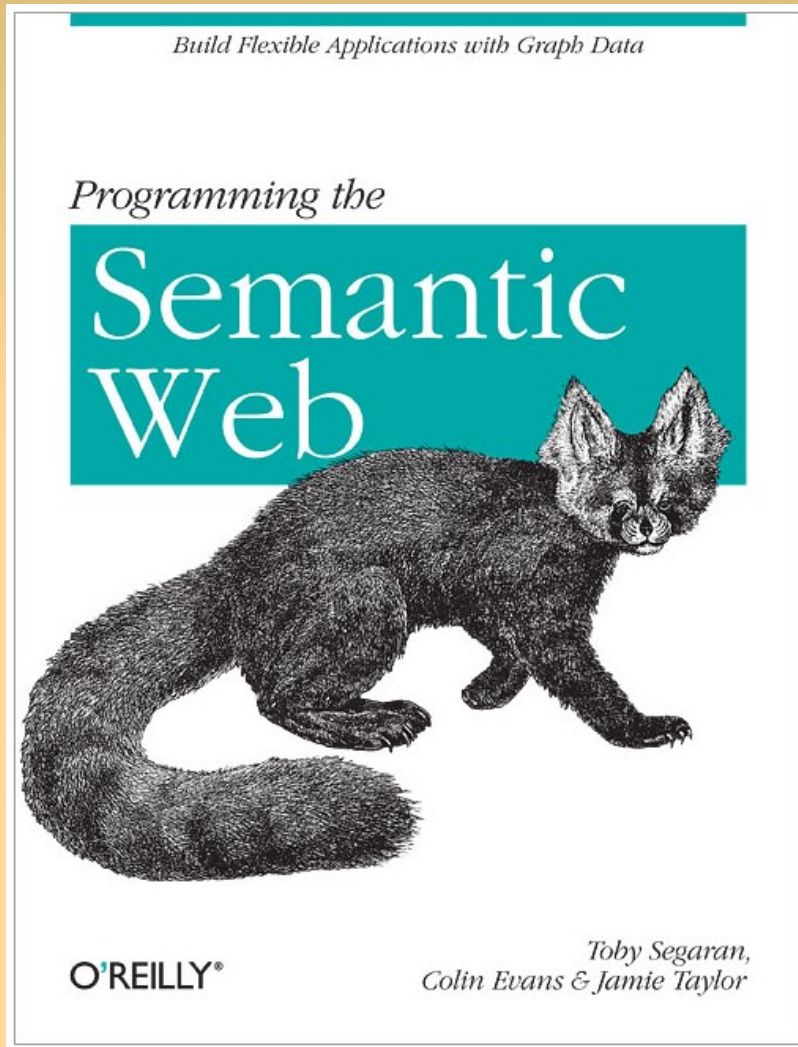
Step 2: Find Vocabularies

- Properties (nickname, capital, governor)
- Classes, Individual Entities
- Reuse existing vocabularies
 - When they cover the same domain
 - When you trust the source to maintain it
- Create your own, if you must
 - Beware perfectionism (“state” or “commonwealth”?)

Step 3: Publish on the Web

- Pick a long-term URL
- Include Provenance/Metadata
- Publish pages (smaller data sets)
 - RDF/XML for machine-only
 - RDFa for integration with HTML
- Provide a query service (larger data sets)
 - SPARQL
 - Linked Data API
- (optional) Offer browse/query interface

More Details



- Lots of books, conferences, web sites, software...
- Research Community
 - Natural Language
 - Automated Reasoning
 - Semantics, Ontologies
- Just the Data, Ma'am

Linked Open Data Cloud

