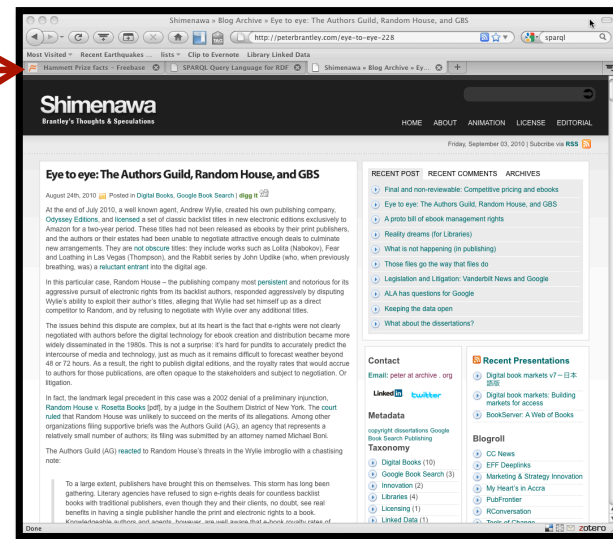
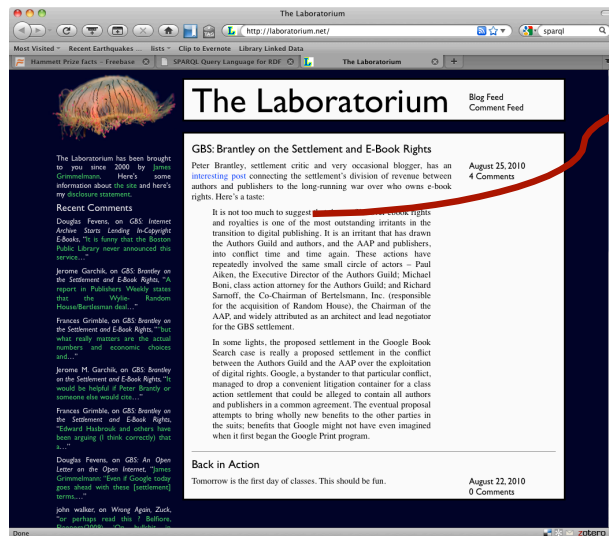




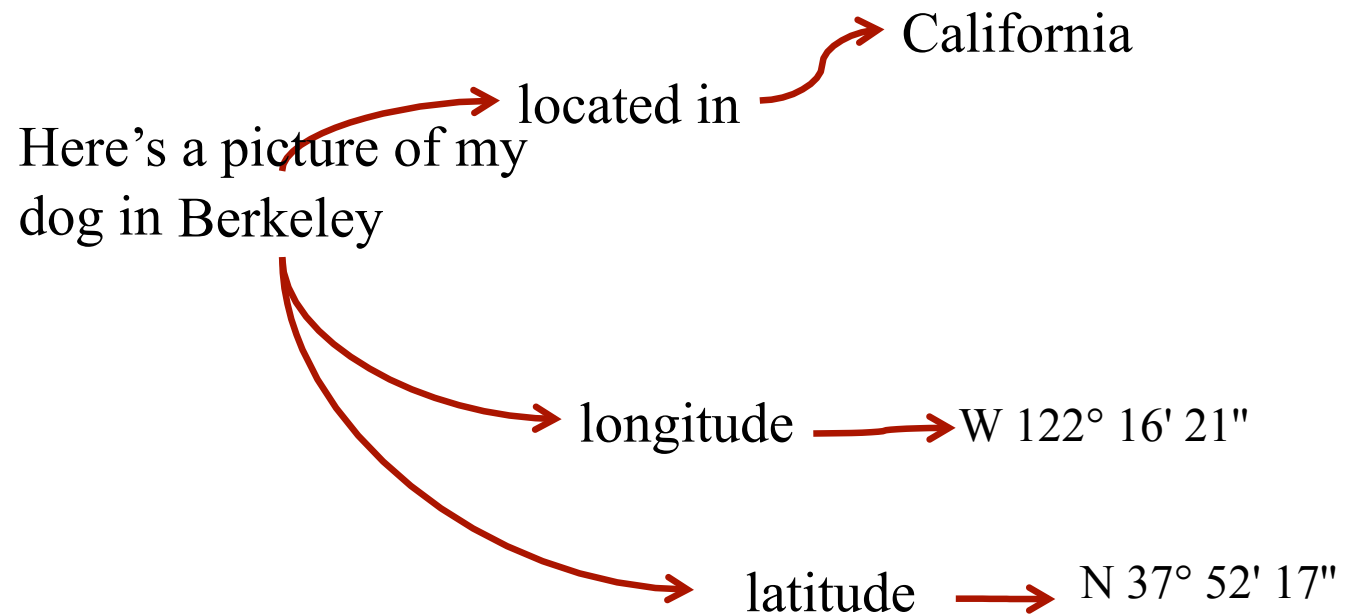
# Introduction to the semantic web

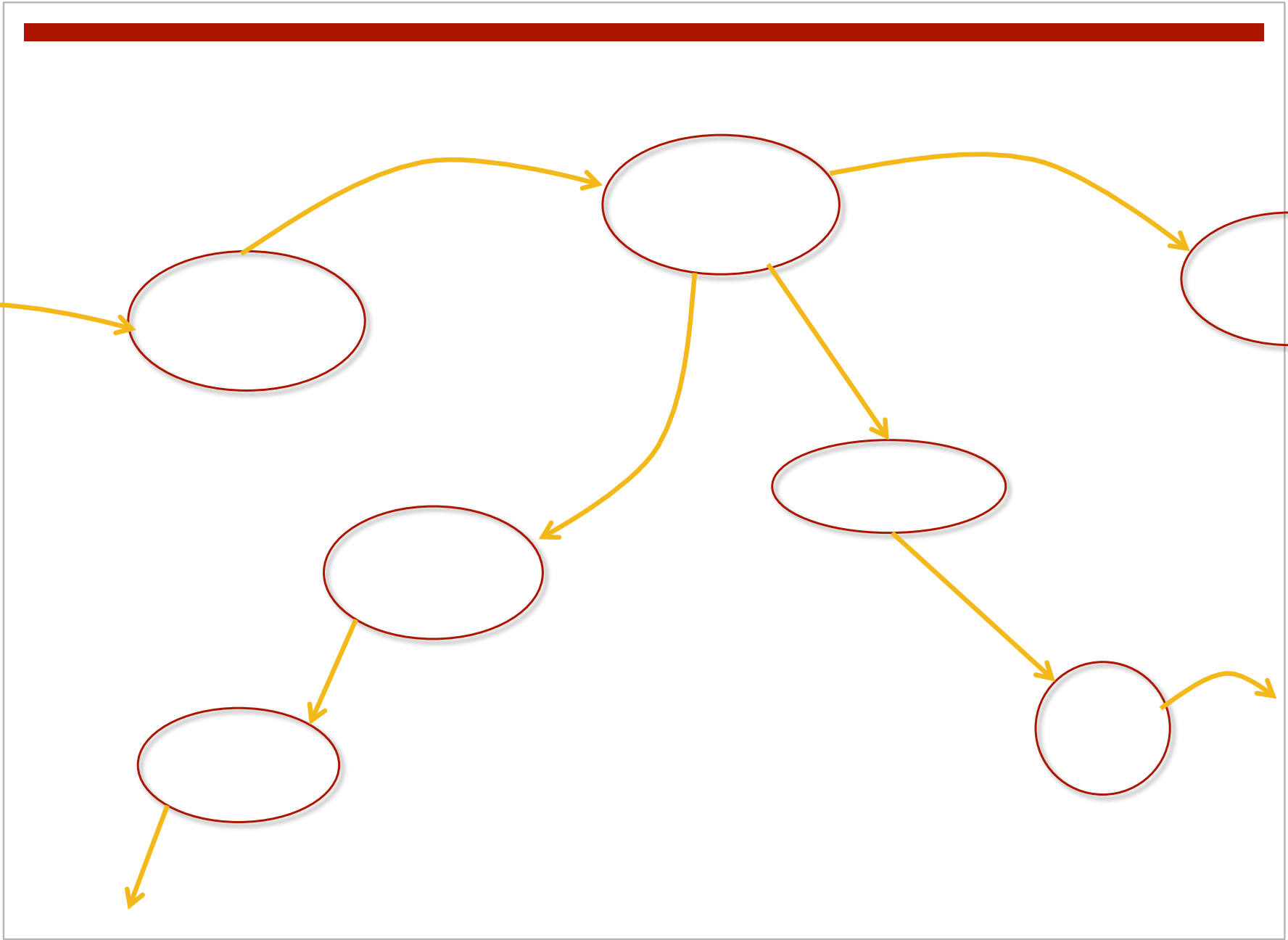
and linked data

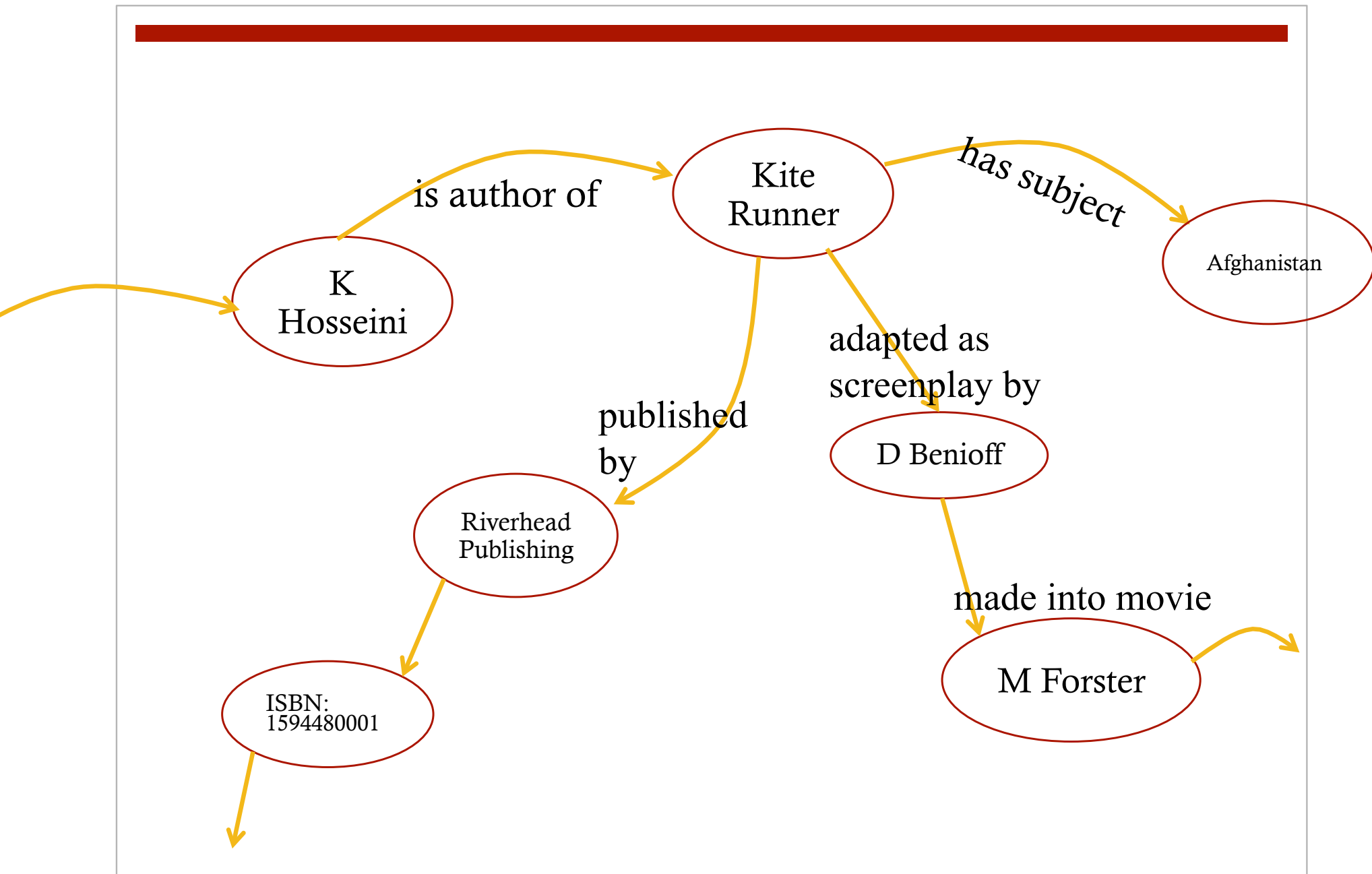
# The “regular” Web is a web of documents

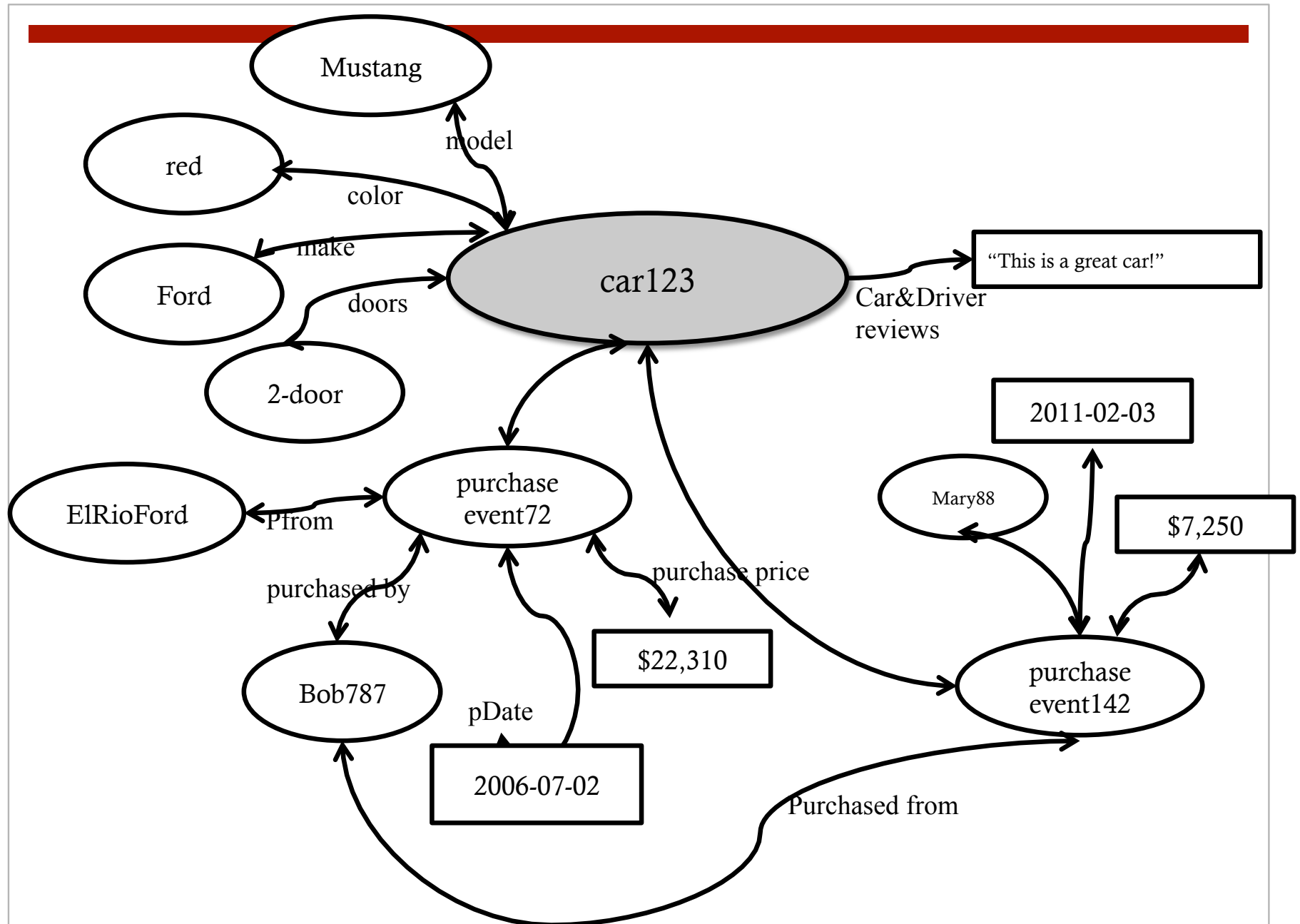


# The “semantic web” is a web of data





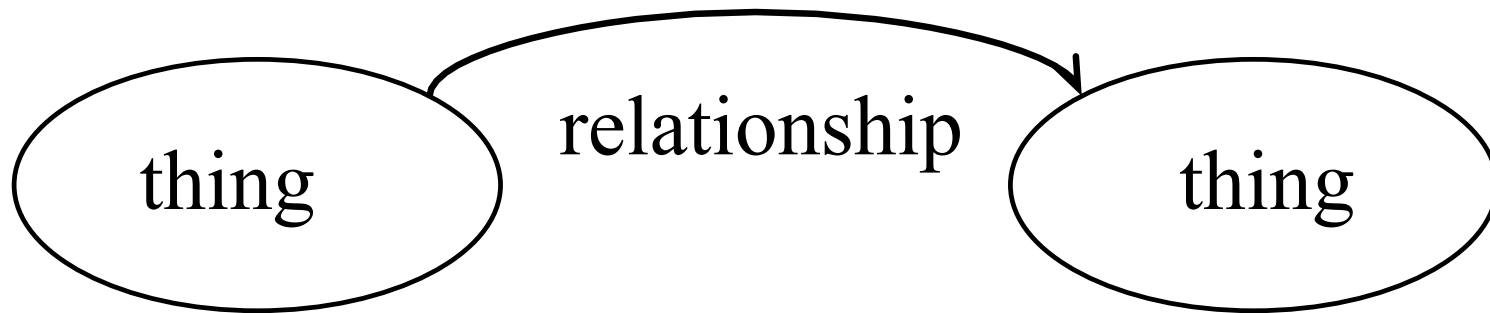


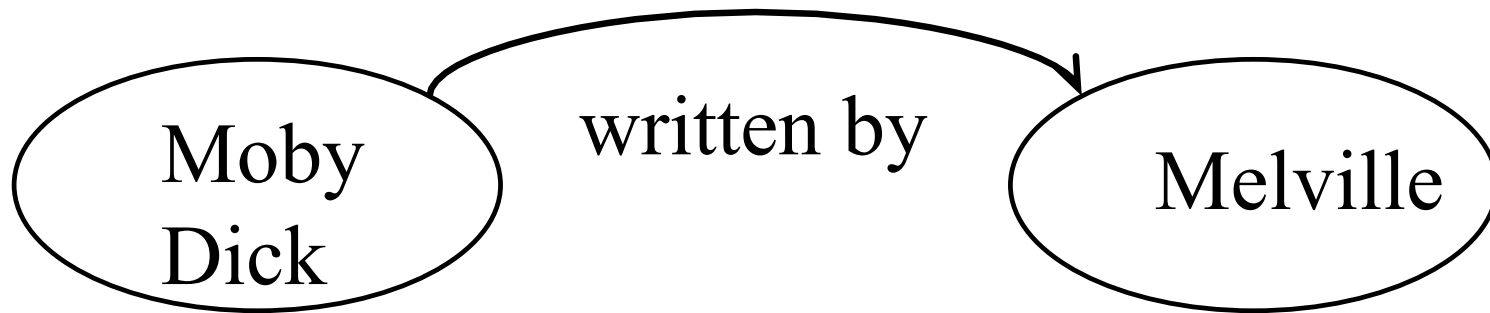


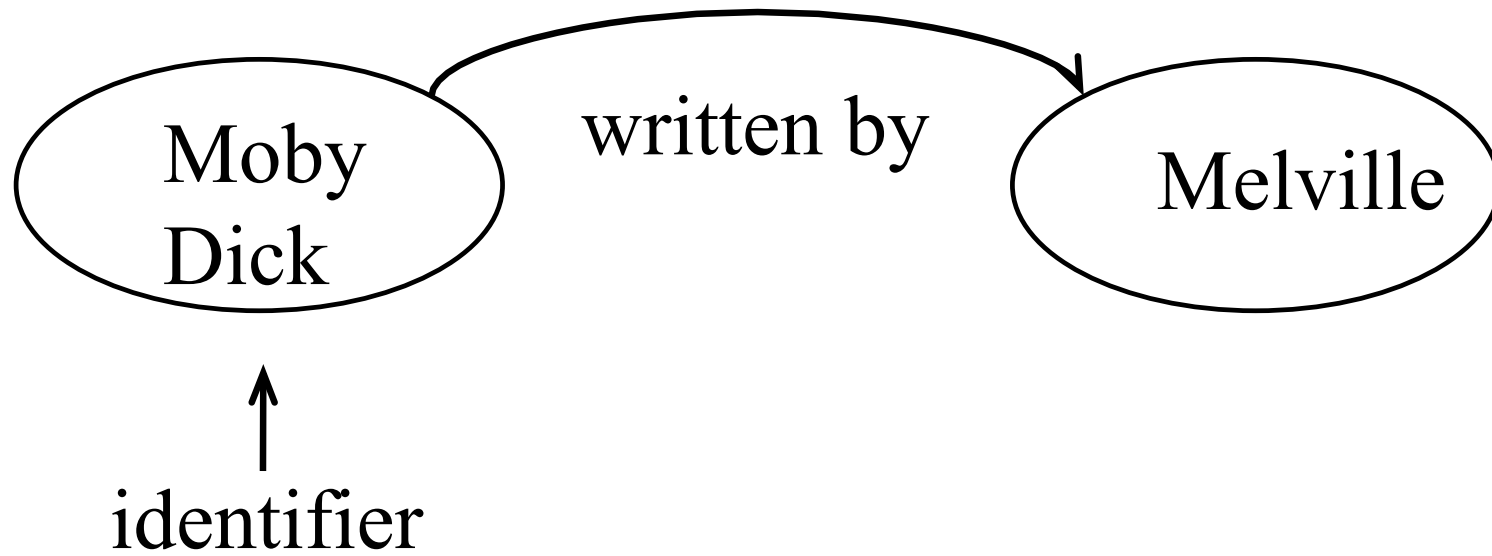
# Things and Strings

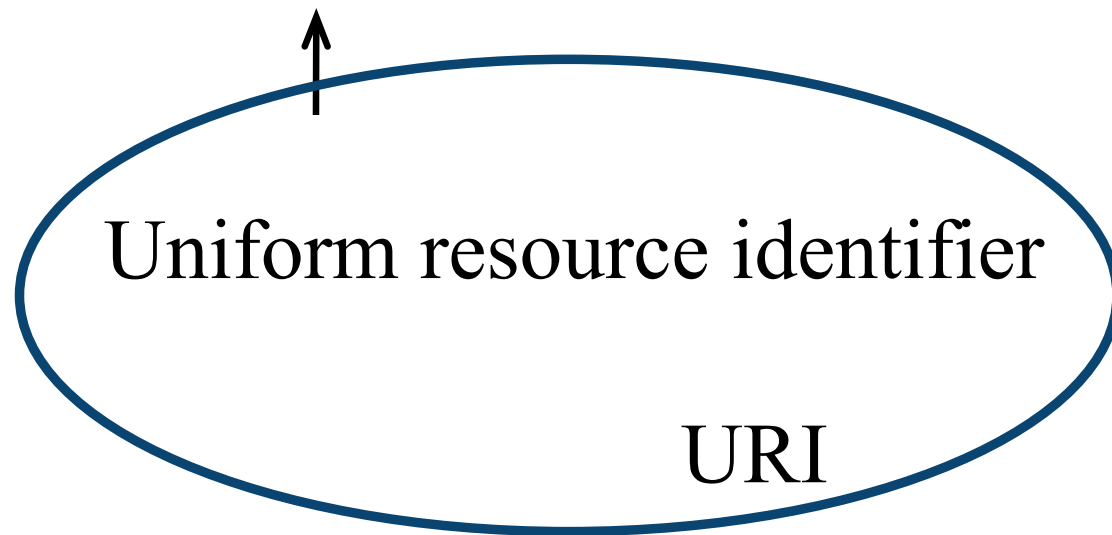
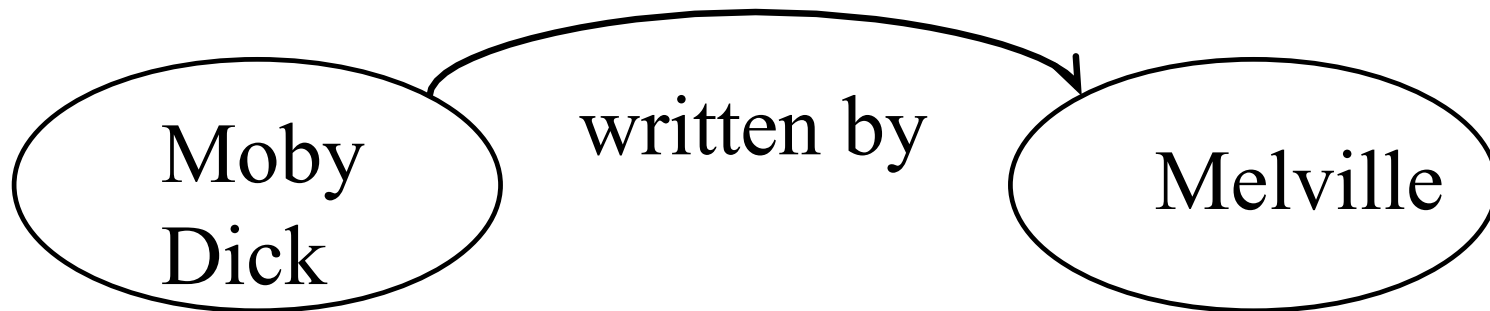
Semantic Web Basics

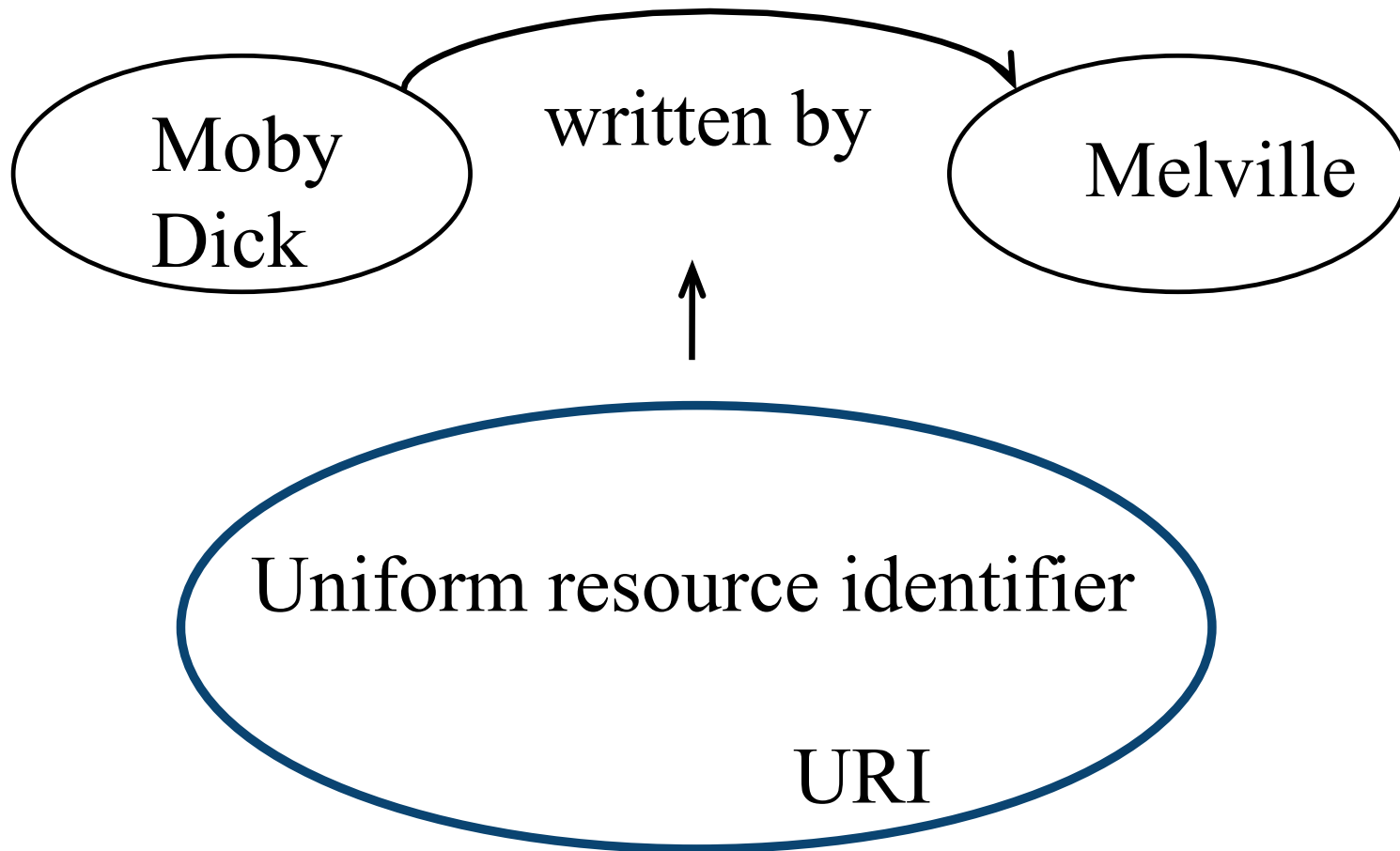


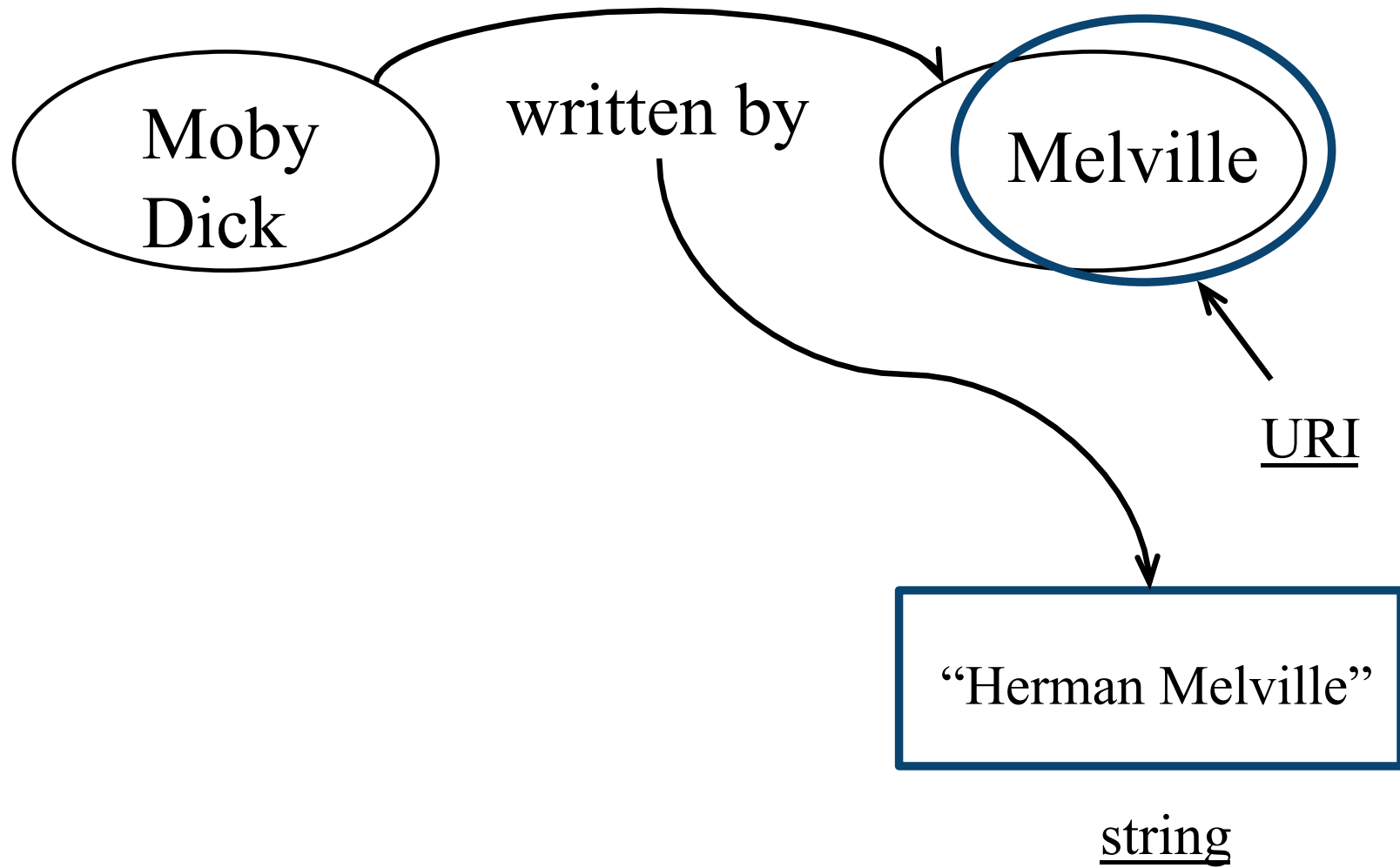












---

<http://www.worldcat.org/oclc/474017053>

<http://viaf.org/viaf/27068555>

<http://purl.org/dc/terms/creator>

WorldCat URI for book “Moby Dick”

---

<http://www.worldcat.org/oclc/474017053>

<http://viaf.org/viaf/27068555>

<http://purl.org/dc/terms/creator>

Dublin Core URI for element “creator”

---

<http://www.worldcat.org/oclc/474017053>

<http://viaf.org/viaf/27068555>

<http://purl.org/dc/terms/creator>

VIAF URI for person “Herman Melville”

**<http://www.worldcat.org/oclc/474017053>**

```
graph TD; A([http://www.worldcat.org/oclc/474017053]) --> B([http://purl.org/dc/terms/creator]); B --> C([http://viaf.org/viaf/27068555])
```

This diagram illustrates a mapping process. It starts with a WorldCat URL, which points to a PURL. The PURL then points to a VIAF URL. A red bar is at the top of the slide.

**<http://viaf.org/viaf/27068555>**

**<http://purl.org/dc/terms/creator>**

---

**<http://www.worldcat.org/oclc/474017053>**

**<http://purl.org/dc/terms/creator>**

This diagram shows a similar mapping process, but it only includes the first two steps: the WorldCat URL pointing to the PURL. The VIAF URL is not shown in this section.

**<http://www.worldcat.org/oclc/474017053>**

The diagram is divided into two horizontal sections by a black line. The top section features three blue-outlined ovals. The left oval contains the URI 'http://www.worldcat.org/oclc/474017053'. An arrow points from this oval to a central oval containing 'http://purl.org/dc/terms/creator'. Another arrow points from this central oval to a right oval containing 'http://viaf.org/viaf/27068555'. The bottom section features two blue-outlined ovals on the left and one blue-outlined rectangle on the right. The left ovals contain the same URI 'http://www.worldcat.org/oclc/474017053' and the same central URI 'http://purl.org/dc/terms/creator' as in the top section. An arrow points from the bottom oval to the rectangle, which contains the text '“Herman Melville”'. A thick red horizontal bar is located at the very top of the diagram.

**<http://viaf.org/viaf/27068555>**

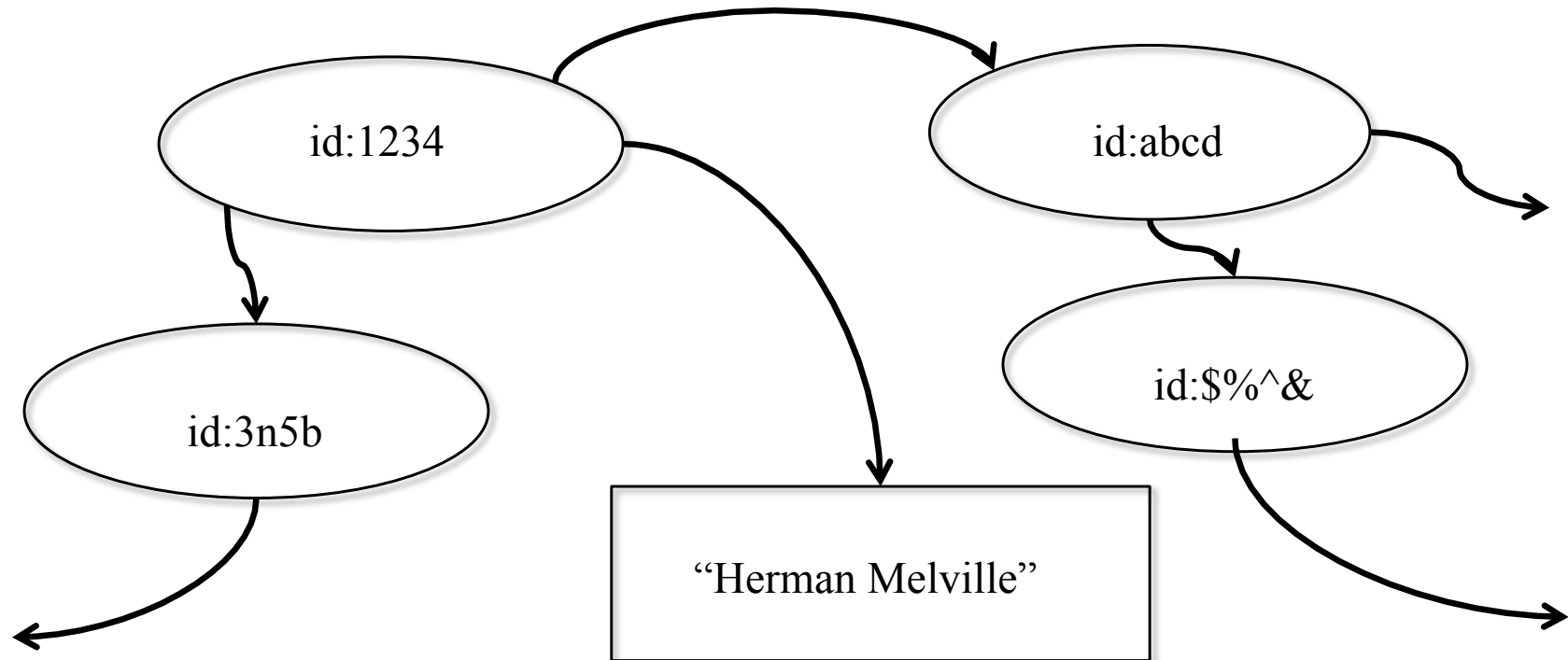
**<http://purl.org/dc/terms/creator>**

**<http://www.worldcat.org/oclc/474017053>**

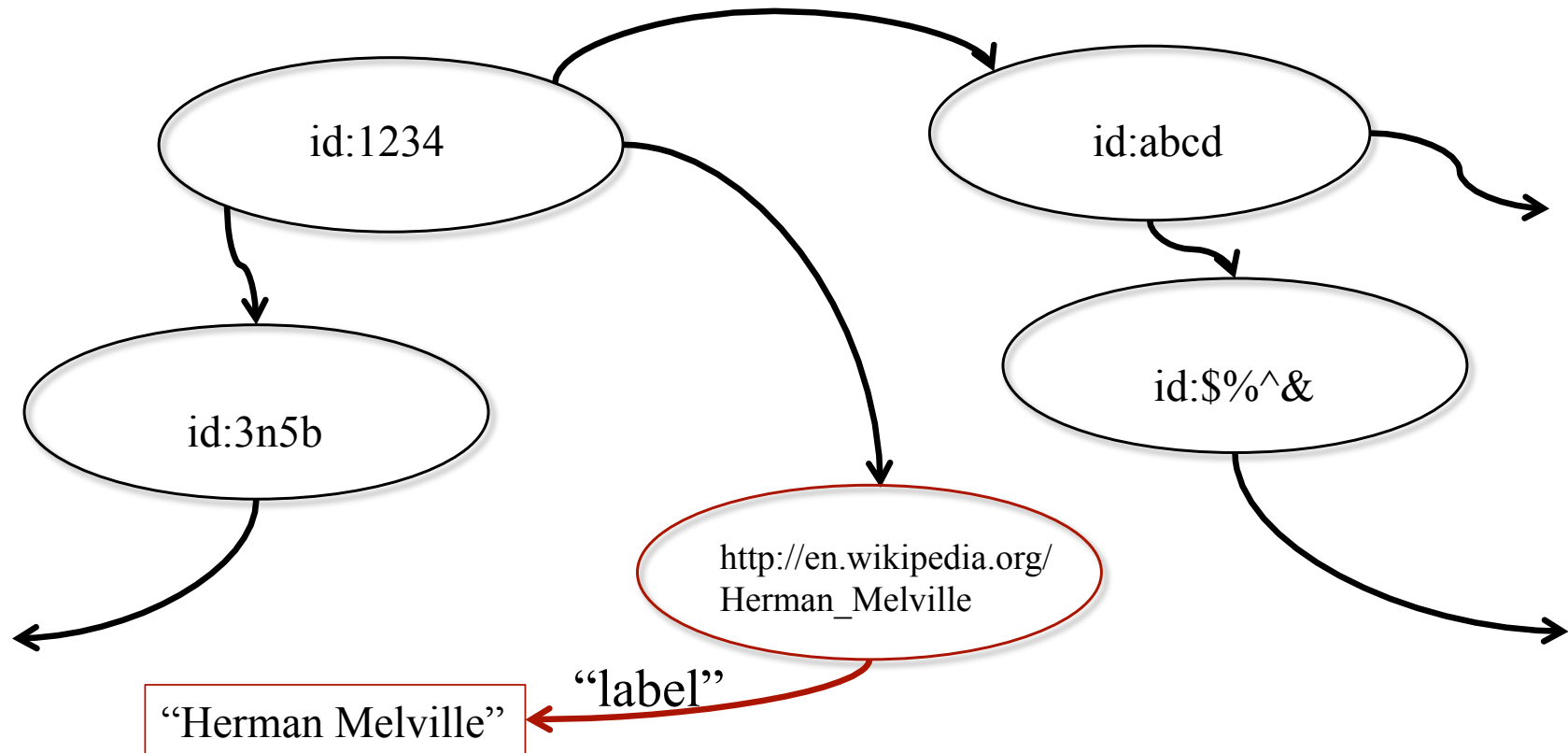
**<http://purl.org/dc/terms/creator>**

**“Herman Melville”**

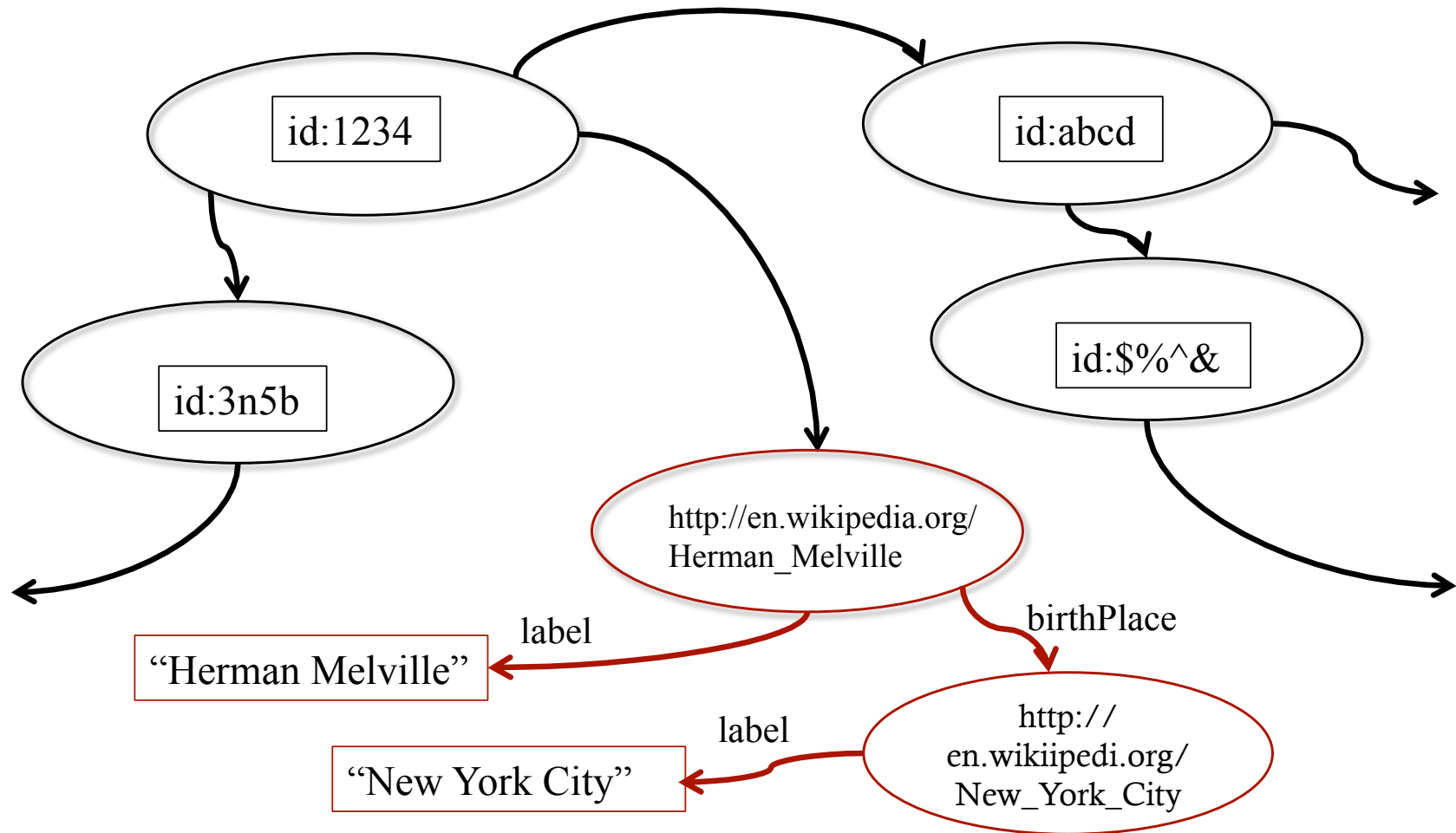
# “things and strings”



# “things and strings”



# “things and strings”



# Exercise: Things and Strings



- This is a dog named Dewey.
  - Dewey is a golden retriever.
  - Dewey is 9 years old.
  - Dewey's birthday is 12-25
  - Dewey was born in 2003
- 
- Dewey lives in Berkeley.
  - Berkeley is in California.
  - The University of California is in Berkeley

A vertical decorative bar on the left side of the slide, consisting of a wide yellow section and a thin red section on its right edge.

# End

Introduction to the Semantic Web