Introduction to the semantic web
and linked data
The “regular” Web is a web of documents
The “semantic web” is a web of data

Here’s a picture of my dog in Berkeley

located in California

longitude W 122° 16' 21"

latitude N 37° 52' 17"
K Hosseini is author of "Kite Runner" published by Riverhead Publishing, adapted as screenplay by D Benioff and made into a movie by M Forster. "Kite Runner" is set in Afghanistan.
Bob787 purchased a Ford Mustang 2-door model in red by ElRioFord on 2006-07-02 for $22,310. This car was purchased from Mary88 for $7,250 on 2011-02-03 as part of event142.

“This is a great car!” - Car&Driver reviews on 2011-02-03.
Things and Strings

Semantic Web Basics
thing

relationship

thing
Moby Dick

written by

Melville
Moby Dick
written by
Melville

identifier
Moby Dick

written by

Melville

Uniform resource identifier

URI
Moby Dick

written by

Melville

“Herman Melville”

string

URI
Dublin Core URI for element “creator”
VIAF URI for person “Herman Melville”
“things and strings”

id:1234

id:abcd

id:3n5b

id:$%^&

“Herman Melville”
“things and strings”

id:1234

id:abcd

id:3n5b

id:$%^&

http://en.wikipedia.org/Herman_Melville

“Herman Melville”

“label”
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
End

Introduction to the Semantic Web