

This Is The Most Informal Talk You Will Ever Hear About a Formal Topic

Ben Fields - Goldsmiths University of London
Kevin Page - University of Southampton

or
The Semantic Web
and why you should
care

Semantic Web

Semantic Web

Semantic

meaning

machine readable

machine readable
meaning

self-describing
machine readable
meaning



Why RDF?

self-describing
machine readable
meaning

What is RDF?

RDF is a model



Is that it?

Yes, that's it.



The model can be
serialized as XML

The model can be
serialized as XML

It's pig ugly

The model can be
serialized as XML

It's pig ugly

That's fine.

Machines eat ugly for
breakfast

Honestly, don't worry
RDF \neq RDF/XML

Our model can
describe models

Specific Models

Specific Models

About stuff

Specific Models

About Things

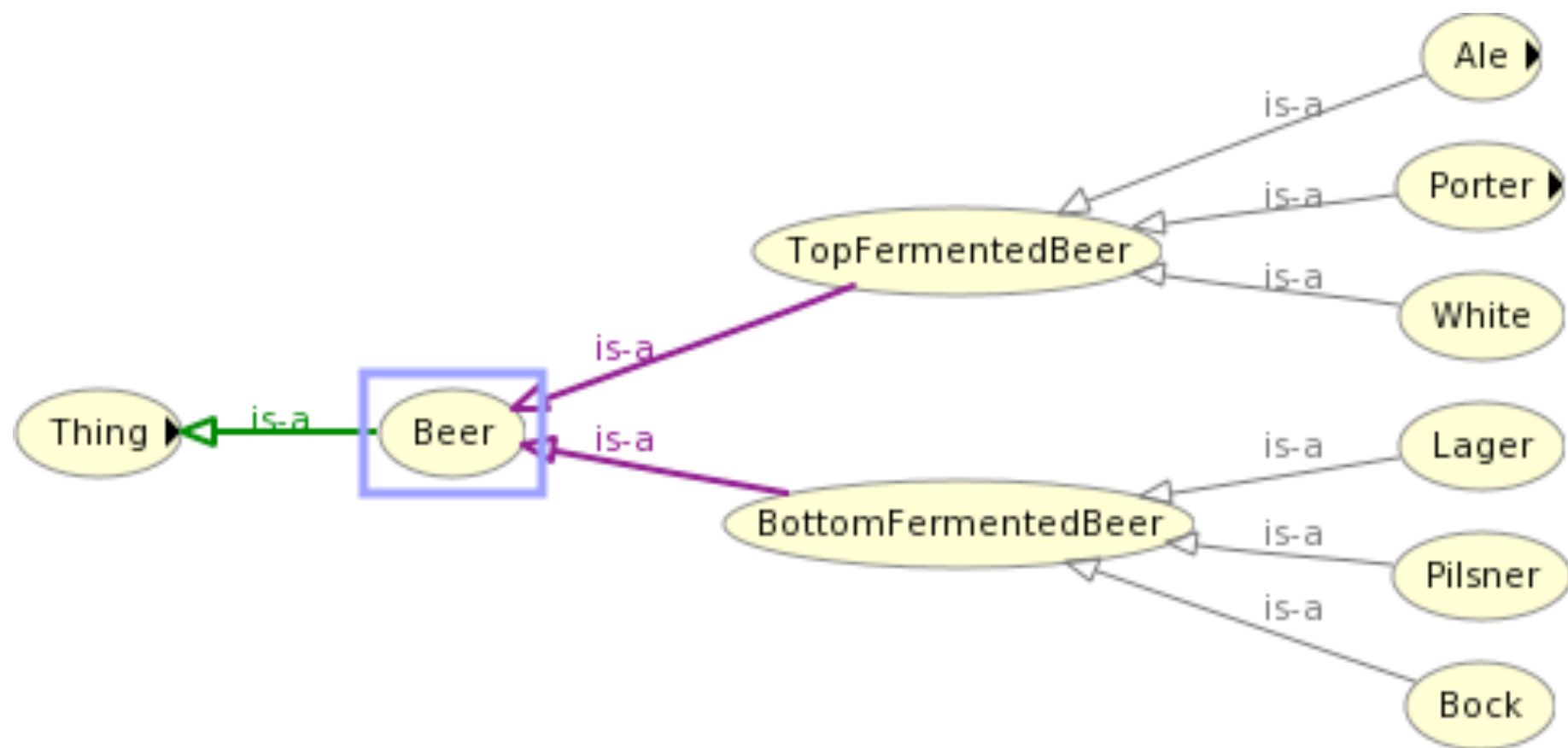
Specific Models

About Things

Let's call these
ontologies

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Ontologies are
described in OWL

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described in OWL

OWL is modeled in
RDF

**RDF is machine
readable**

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readable

So ontologies can
understood by
machines

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Even if that's just to
assert that everything is
a Thing

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Semantic Web

Semantic Web

Web

The Web is simply the
biggest, most successful,
most useable,
distributed systems
architecture ever.

“The Web is simply the
biggest, most successful,
most useable,
distributed systems
architecture ever.”

David De Roure

Linking

Linking

Scale

The mechanism for

Linking

enables the Web to

Scale

Do people scale?

Do people scale?

Do people scale to the
size of the Web?

machine readable
meaning

Why does the
Web scale?

REST

A Resource Oriented Architecture

A Resource Oriented
Architecture
with a simple protocol to
return representations of
those resources

HTTP returns those
representations

HTTP returns those
representations

When it talks to us,
it returns HTML

The resources are
simply addressable
objects

Resource
What is RDF?
Description Framework

About those
addressable
Things...

We address them
using URIs

<http://www.bbc.co.uk/music/artists/668fd73c-bf54-4310-a139-305517f05311>

<http://www.bbc.co.uk/music/artists/668fd73c-bf54-4310-a139-305517f05311>

This is the Willie Nelson.

<http://www.bbc.co.uk/music/artists/668fd73c-bf54-4310-a139-305517f05311>

This is the Willie Nelson.

Honest.

Everything in RDF
is a
resource

Everything in RDF
is a
URI

Yes, that's ^{not quite} it.



Why is this
important to
second generation
digital libraries?

Principally libraries
are about sharing

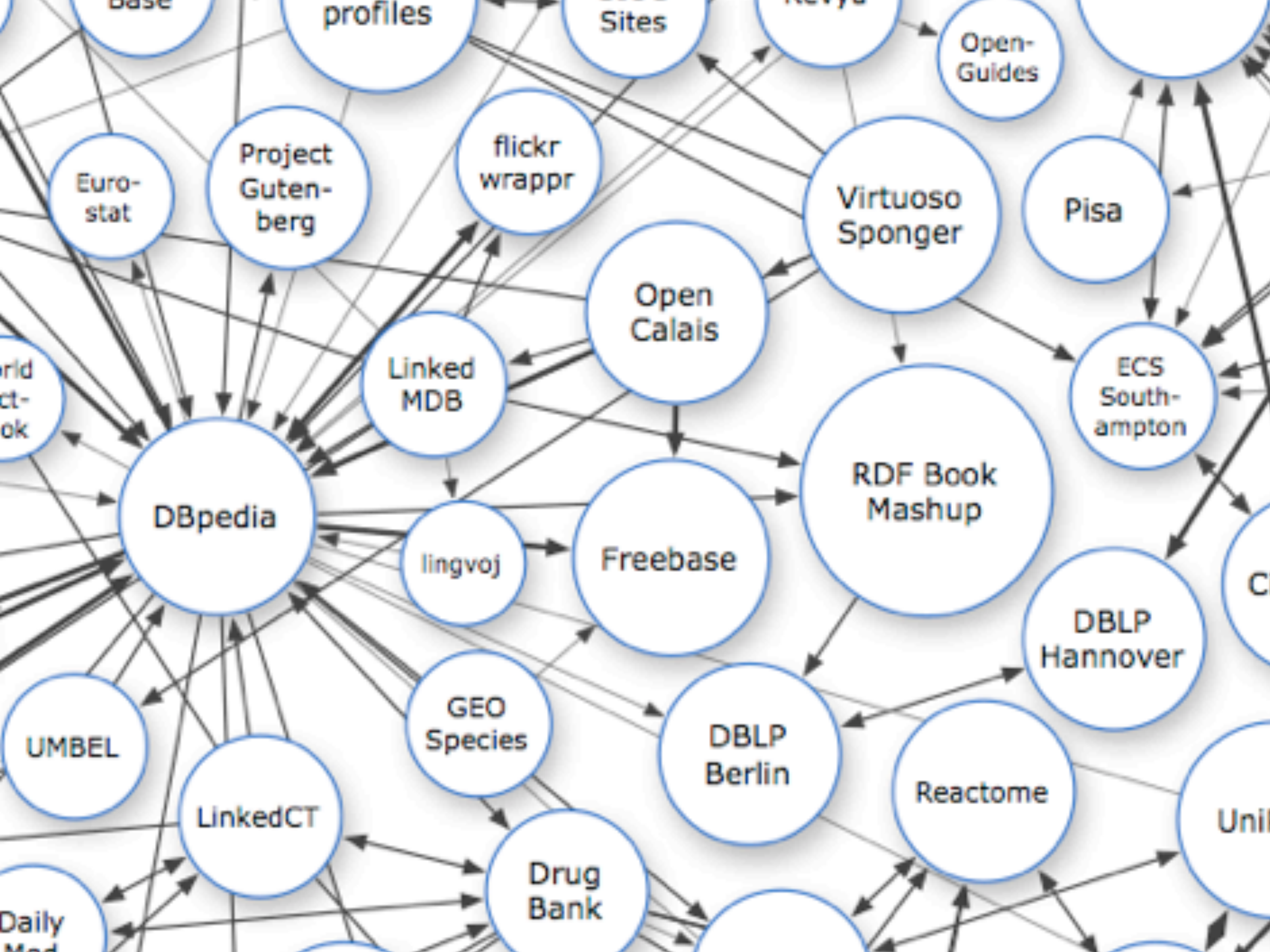
Principally libraries
are about sharing
Things.

Do people scale?

Do people scale?

Do people scale to the
size of the Web?

machine readable
meaning



Demo

Questions?