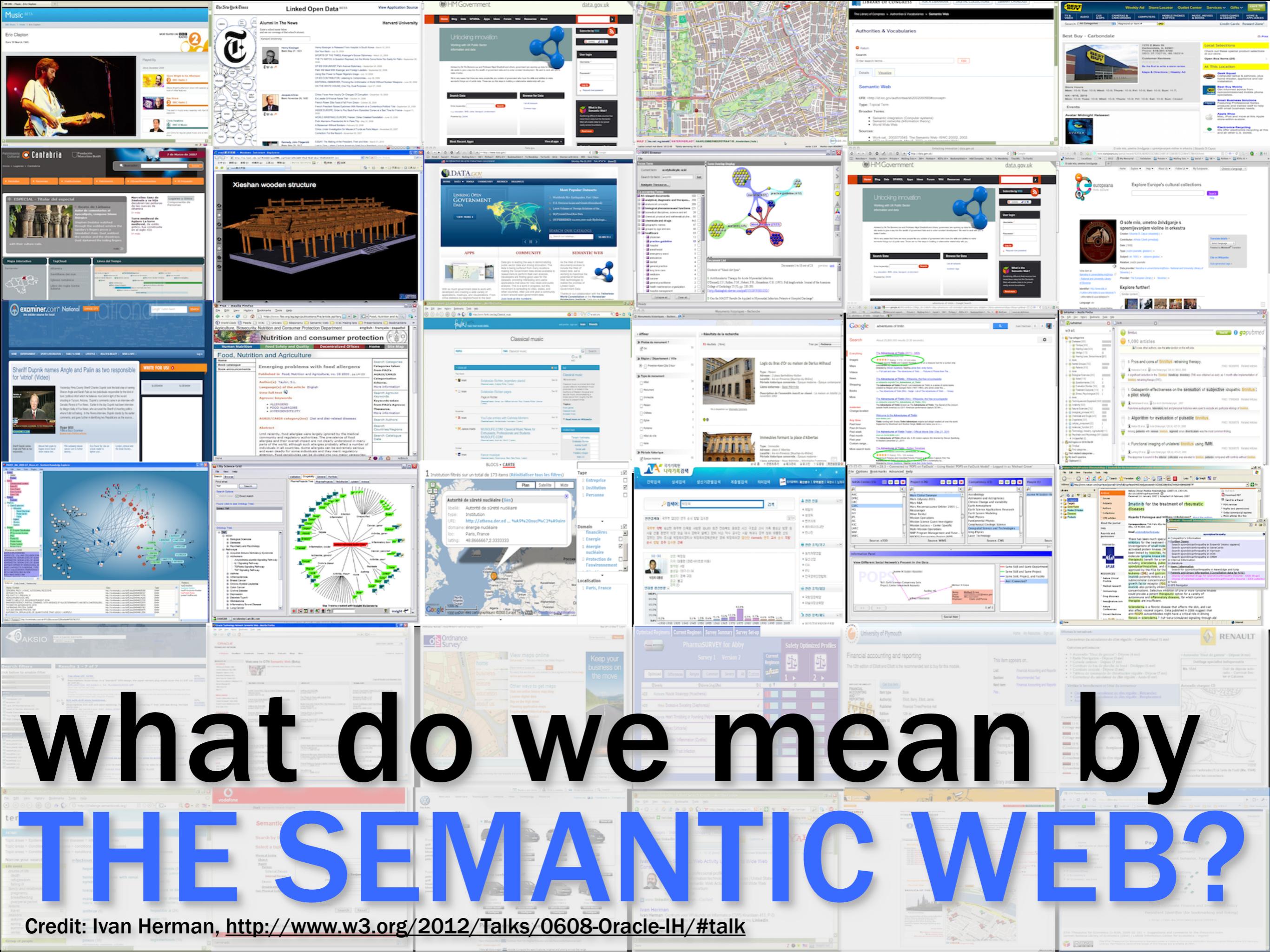


Linked Data and the Semantic Web in an Archival Context

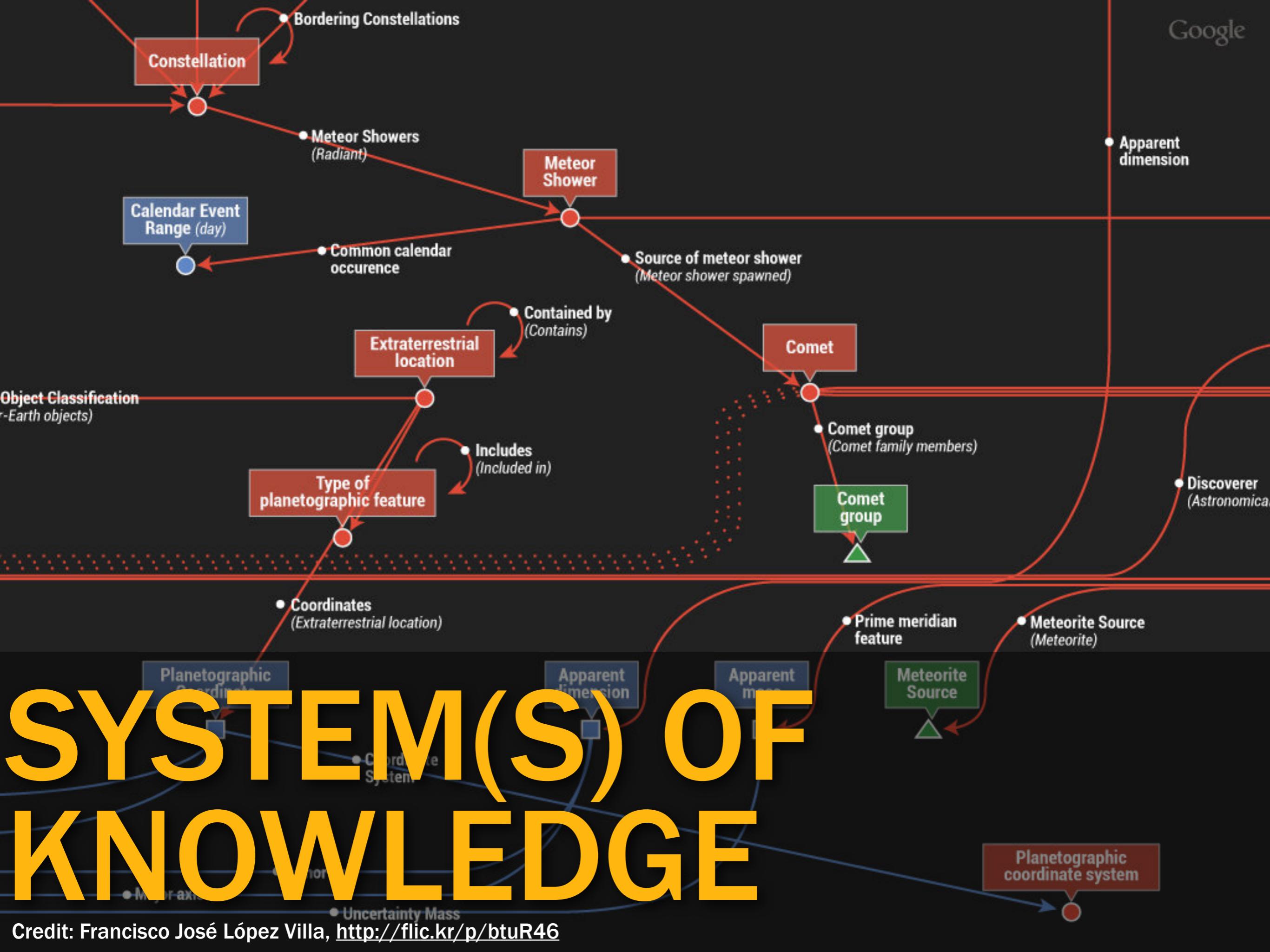
Mark A. Matienzo
Manuscripts and Archives, Yale University Library

HIST-GA.2031: Advanced Archival Description
New York University
December 10, 2012



what do we mean by THE SEMANTIC WEB?

Credit: Ivan Herman, <http://www.w3.org/2012/Talks/0608-Oracle-IH/#talk>



SYSTEM(S) OF KNOWLEDGE

Credit: Francisco José López Villa, <http://flic.kr/p/btuR46>

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[The Artist \(2011\) - IMDb](#)

www.imdb.com/title/tt1655442/

Silent movie star George Valentin bemoans the coming era of talking ... Still of Jean Dujardin and Missi Pyle in The Artist Still of Bérénice Bejo in The Artist Reem ...

→ [Full cast and crew - The Artist Trailer \(Official ... - Bérénice Bejo - Jean Dujardin](#)

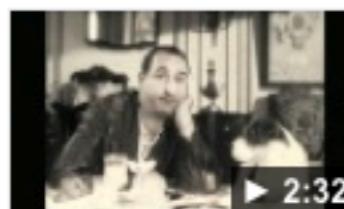
[The Artist \(film\) - Wikipedia, the free encyclopedia](#)

[en.wikipedia.org/wiki/The_Artist_\(film\)](http://en.wikipedia.org/wiki/The_Artist_(film))

The Artist is a 2011 French romantic comedy drama in the style of a black-and-white silent film written and directed by Michel Hazanavicius, starring Jean ...

→ [Jean Dujardin - Bérénice Bejo - Uggie - Diegesis](#)

[The Artist Trailer 2011 HD - YouTube](#)



www.youtube.com/watch?v=O8K9AZcSQJE

25 Aug 2011 - 3 min - Uploaded by TrailersApplecom
I love how George Clooney, and Brad Pitt, lost the Best actor category to this film. It just shows that there is ...

[More videos for the artist movie »](#)

[Oscars 2012: The Artist, review - Telegraph](#)

[www.telegraph.co.uk › Culture › Film › Film_Reviews](http://www.telegraph.co.uk/Culture/Film/Film_Reviews)

★★★★★ Review by Robbie Collin

27 Feb 2012 – The Artist, the final film to be released in 2011 and also the most heart-swellingly joyful one, is a silent movie, screened in black and white and ...



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Oscars 2012: The Artist, review

The Artist, an utterly beguiling silent, black-and-white celebration of early Hollywood won Best Picture at the Oscars 2012.

★★★★★



Credit: Ivan Herman, <http://www.w3.org/2012/Talks/0608-Oracle-IH/#talk>

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```
<li>
<li>
    <a href="http://www.telegraph.co.uk/culture/film/filmreviews/8982558/Oscars-2012-The-Artist-review.html">the artist</a>
```

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Monday 09 April 2012

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Oscars 2012

The Artist, an utterly beguiling silent, black-and-white celebration of early Hollywood won Best Picture at the Oscars

Hollywood won Best Picture at the Oscars

</h2>

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    <div id="storyIntro">
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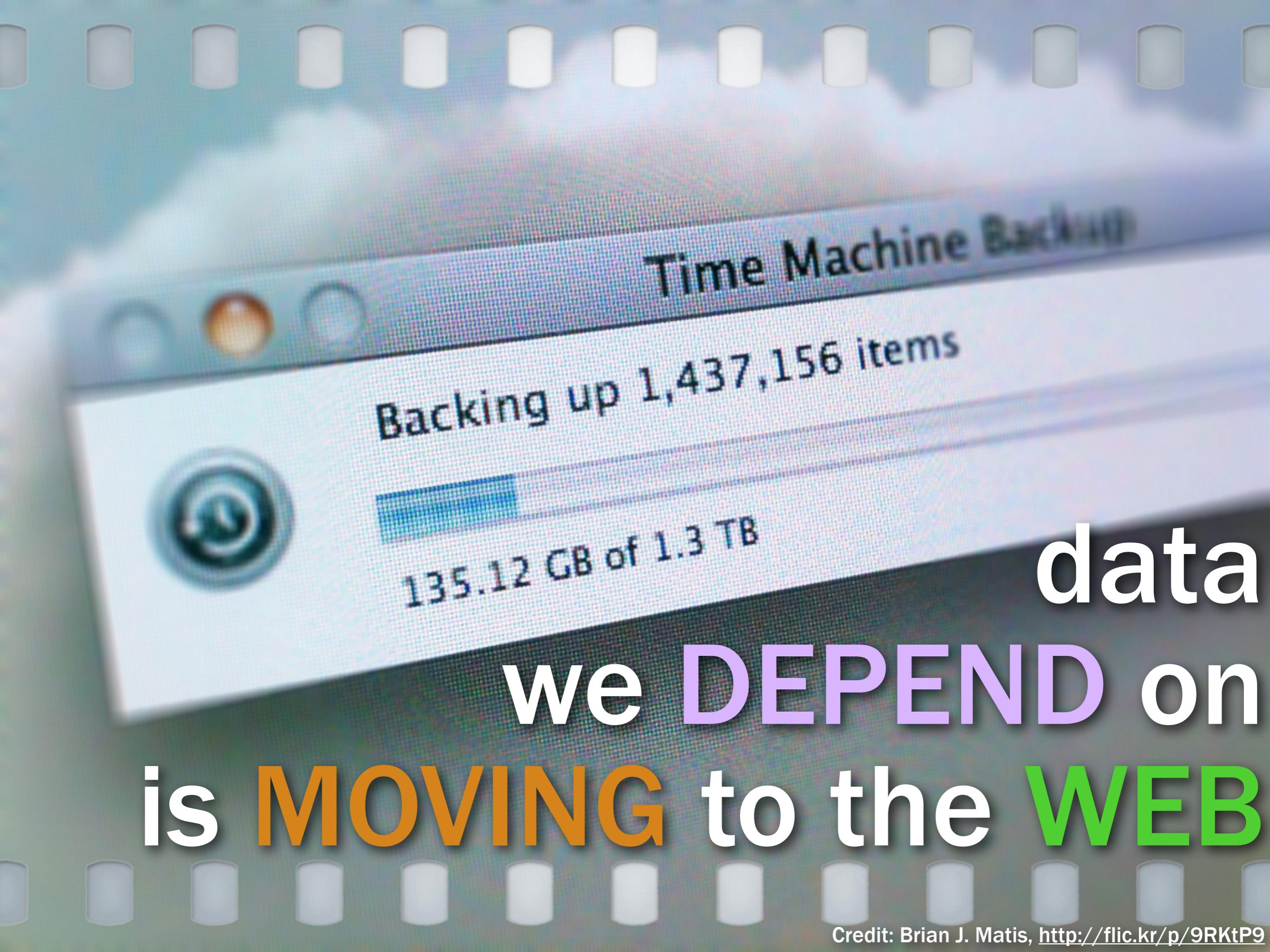
data INTEGRATION

Credit: Nick Olejniczak, <http://flic.kr/p/CQjzi>



application **INTEGRATION**

Credit: Ian Britton, <http://flic.kr/p/a7E8EJ>

A close-up photograph of a computer screen displaying a Time Machine Backup window. The window title is "Time Machine Backup". It shows a progress bar indicating "Backing up 1,437,156 items" with a blue bar partially filled. Below the bar, the text "135.12 GB of 1.3 TB" is visible. A circular icon with a spiral pattern is on the left. The background of the slide features a film strip border.

Time Machine Backup

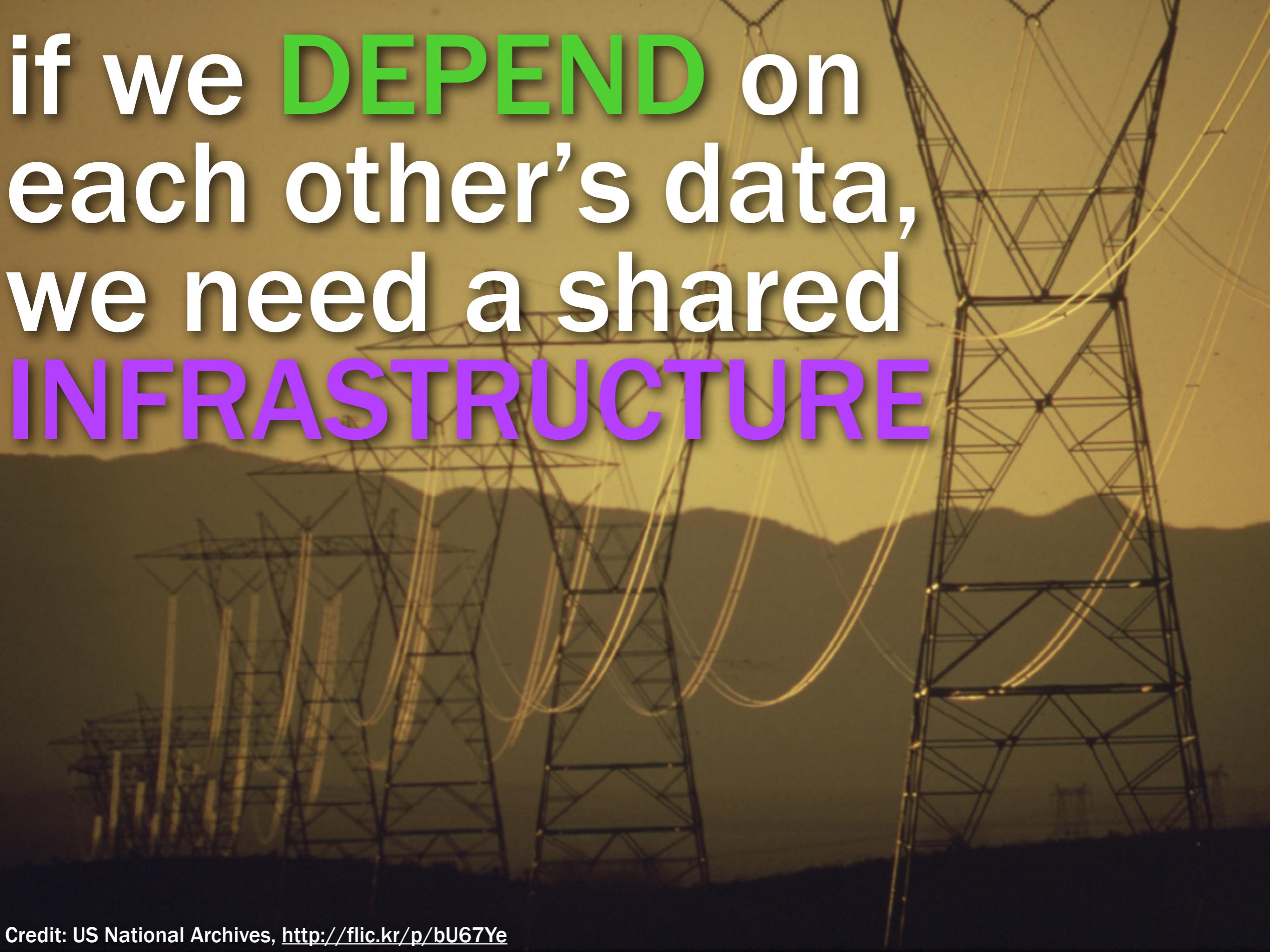
Backing up 1,437,156 items

135.12 GB of 1.3 TB

data
we DEPEND on
is MOVING to the WEB

silos
are
BAD
for
data





if we **DEPEND** on
each other's data,
we need a shared
INFRASTRUCTURE

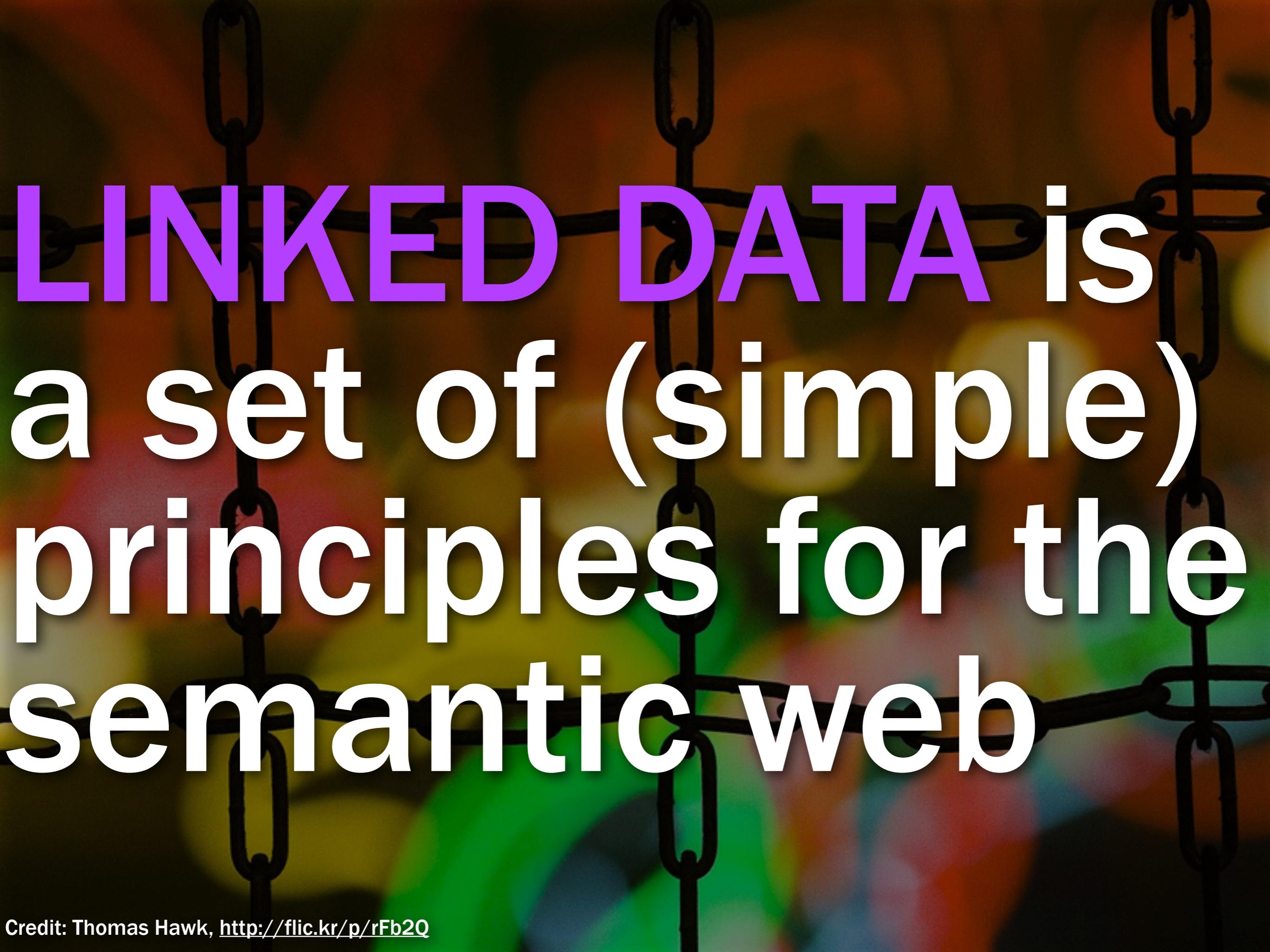
An aerial photograph of a complex highway interchange with multiple overpasses and ramps. In the background, a city skyline with several tall buildings is visible under a clear sky.

**SEMANTIC WEB =
INFRASTRUCTURE**

the **SEMANTIC WEB**
has **TECHNOLOGIES**



the SEMANTIC WEB has
PRINCIPLES



LINKED DATA is
a set of (simple)
principles for the
semantic web

principle 1.
use URIS
as NAMES
for THINGS

this URI:

<http://linkeddatabook.com/editions/1.0/#book>

identifies the book:

Linked Data: Evolving the Web into a Global Data Space
(1st Edition) by Tom Heath and Christian Bizer

principle 2.
use **HTTP URIs**
so that people
can **LOOK UP**
those **NAMES**

using a **HTTP URI**
as a **NAME** allows
us to get **DATA**
about a **THING**
using the web
(which you probably know how to use)

in other words,
principle 1+2:
unambiguous names
that allow us to know
HOW and **WHERE**
to get information

principle 3.

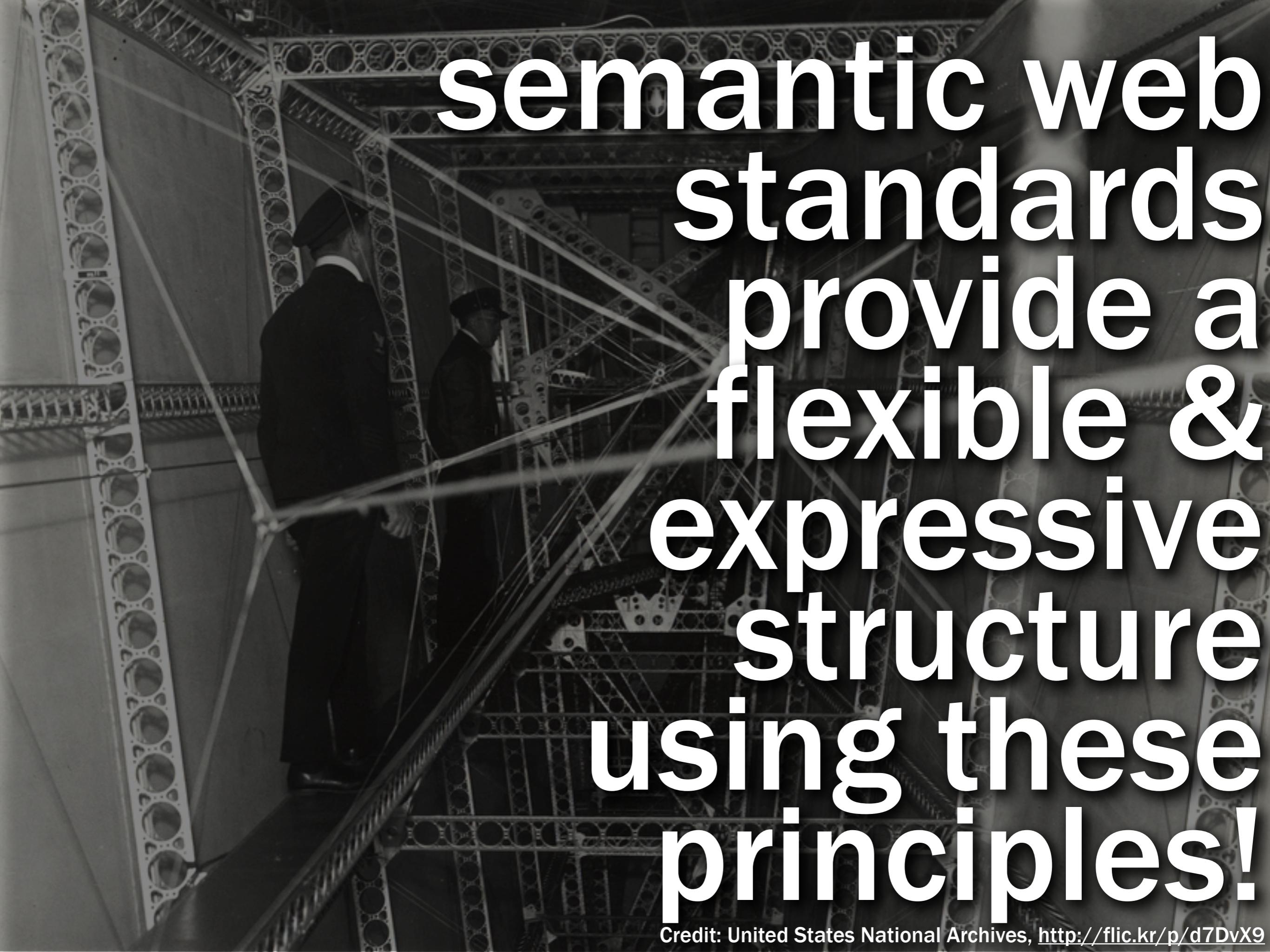
when someone looks

up a **URI**, provide

useful **INFORMATION**,

using the **STANDARDS**

of the semantic web



semantic web
standards
provide a
flexible &
expressive
structure
using these
principles!

principle 4.
include **LINKS** to
other **URIs** so
people can find
more **THINGS**

LINKS are
relationships
between
THINGS that
are named
by their **URIs**

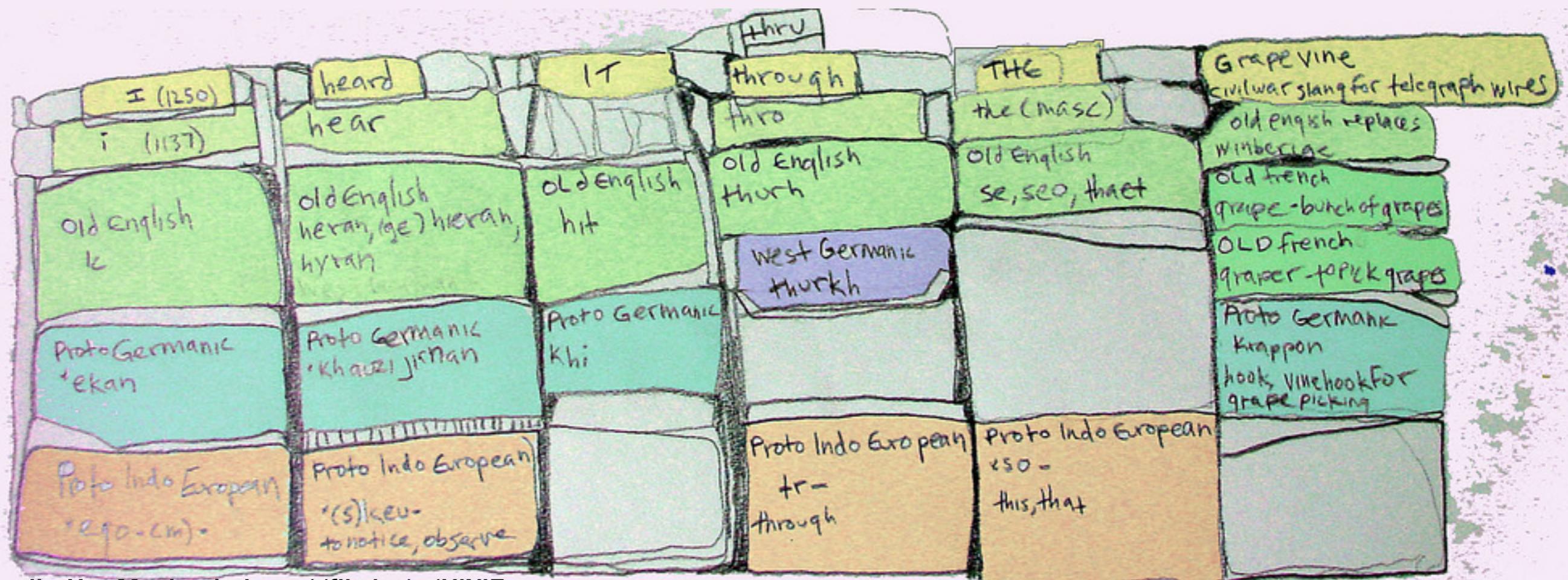




RDF Resource
Description
Framework
is the basis for
many semantic
web standards

RDF

lets us make statements
about things consistently



RDF statements have

a subject

<http://matienzo.org/#me>

a predicate

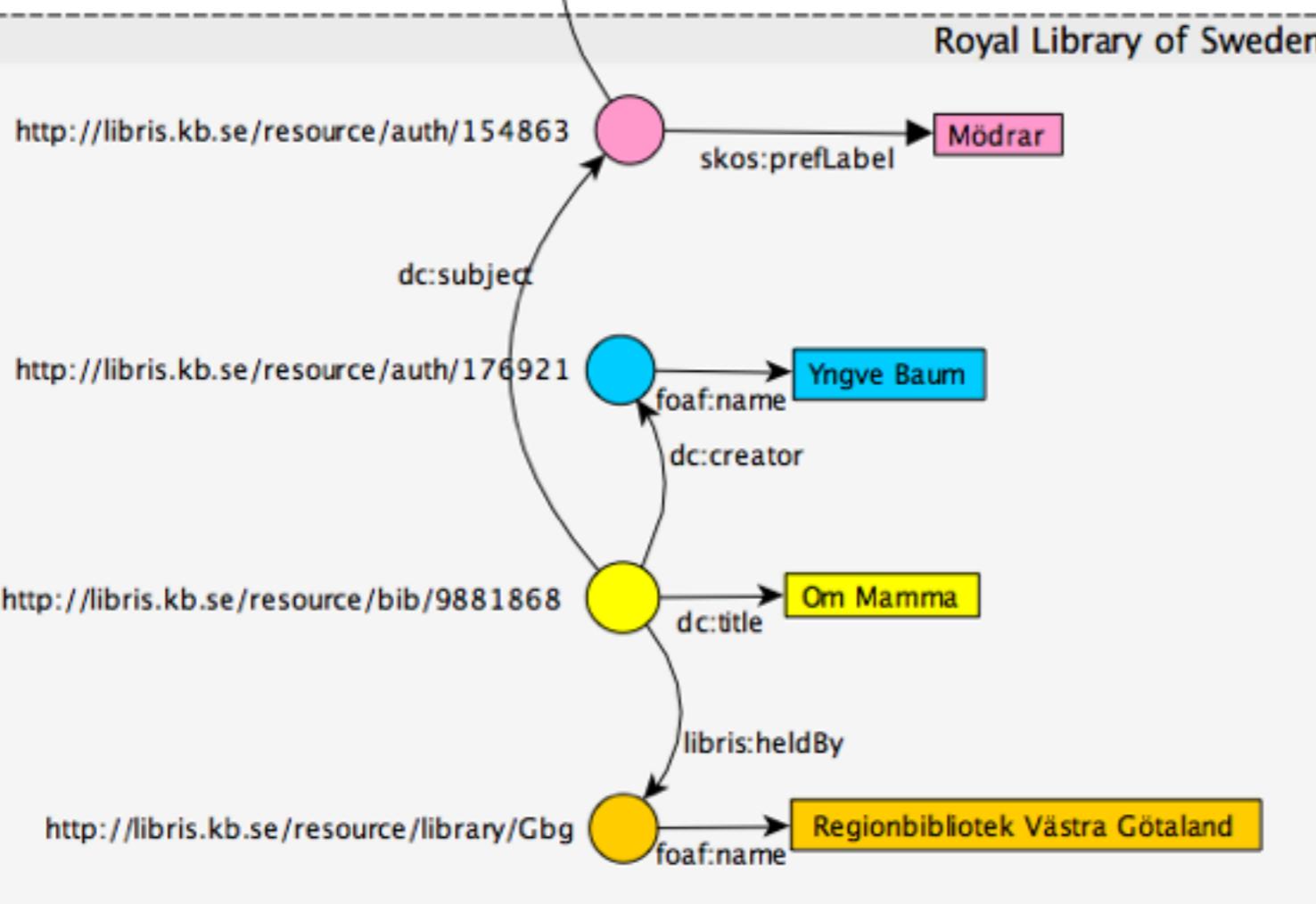
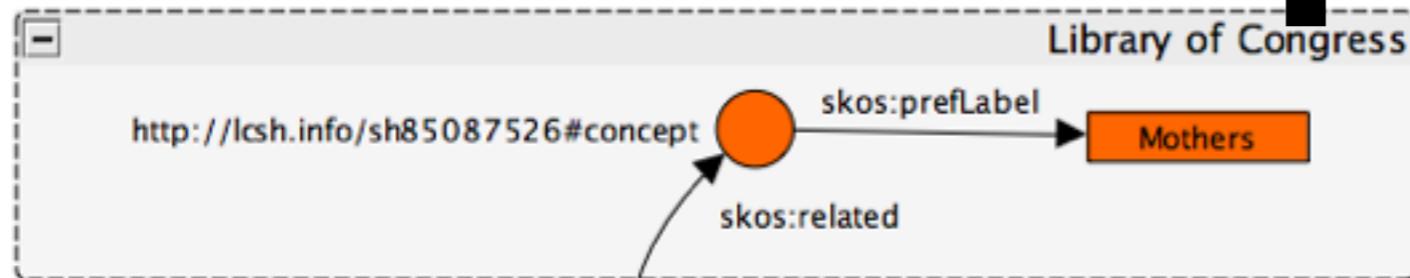
<http://xmlns.com/foaf/0.1/givenName>

an object

“Mark”

& are called **TRIPLES**

GRAPHS are sets of RDF triples

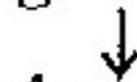


why is linked data
IMPORTANT for
ARCHIVES?

archival data has
RELATIONSHIPS &
we've known this
for years!

CONTEXT CONTROL

Organization



Agency

Family



Person

RECORD CONTROL

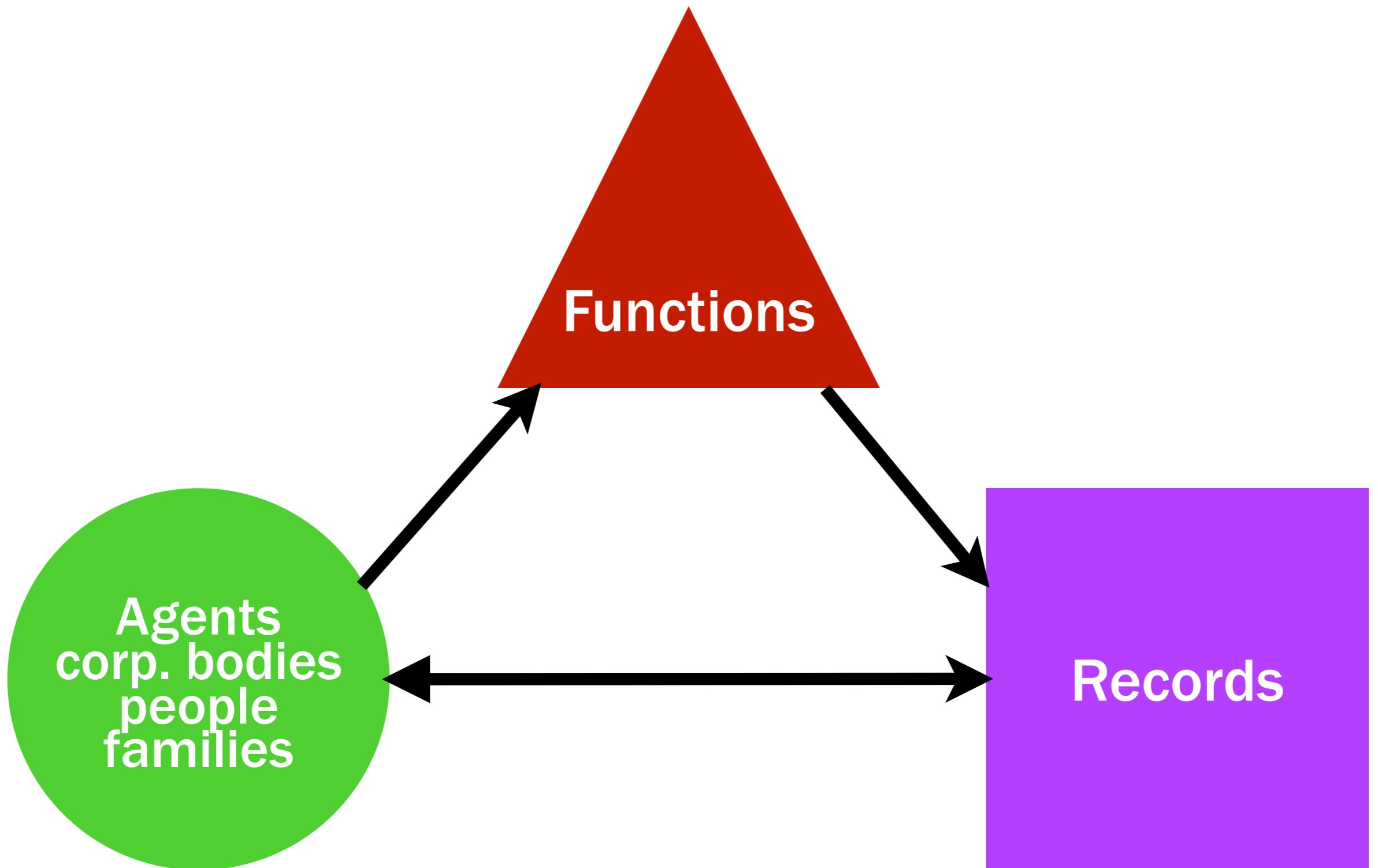
→ Record Series ←

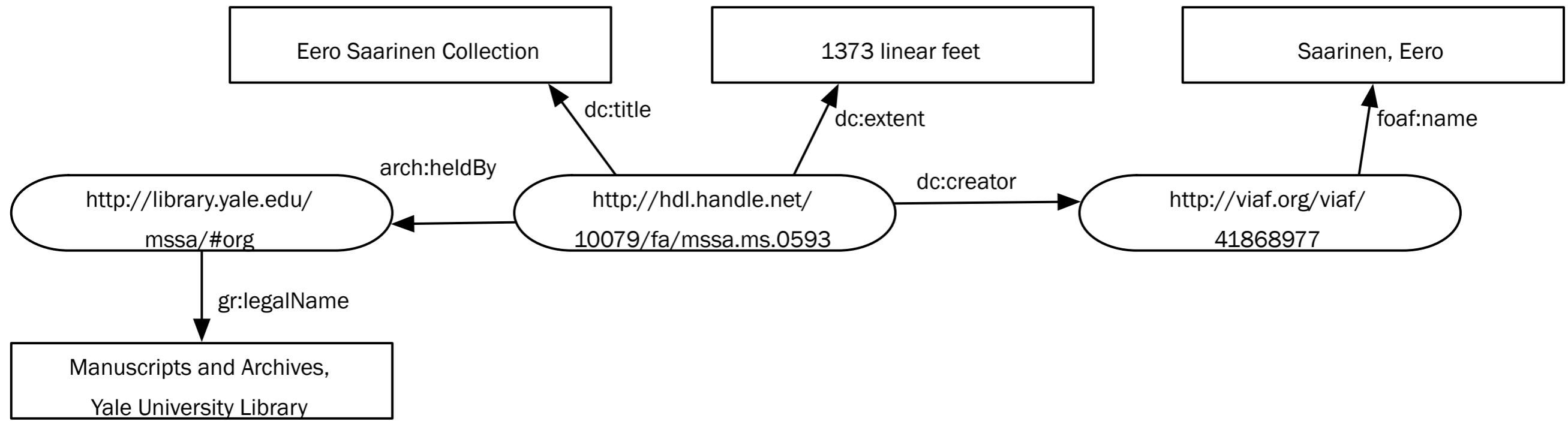
↓
(Item)

↓
(Document)

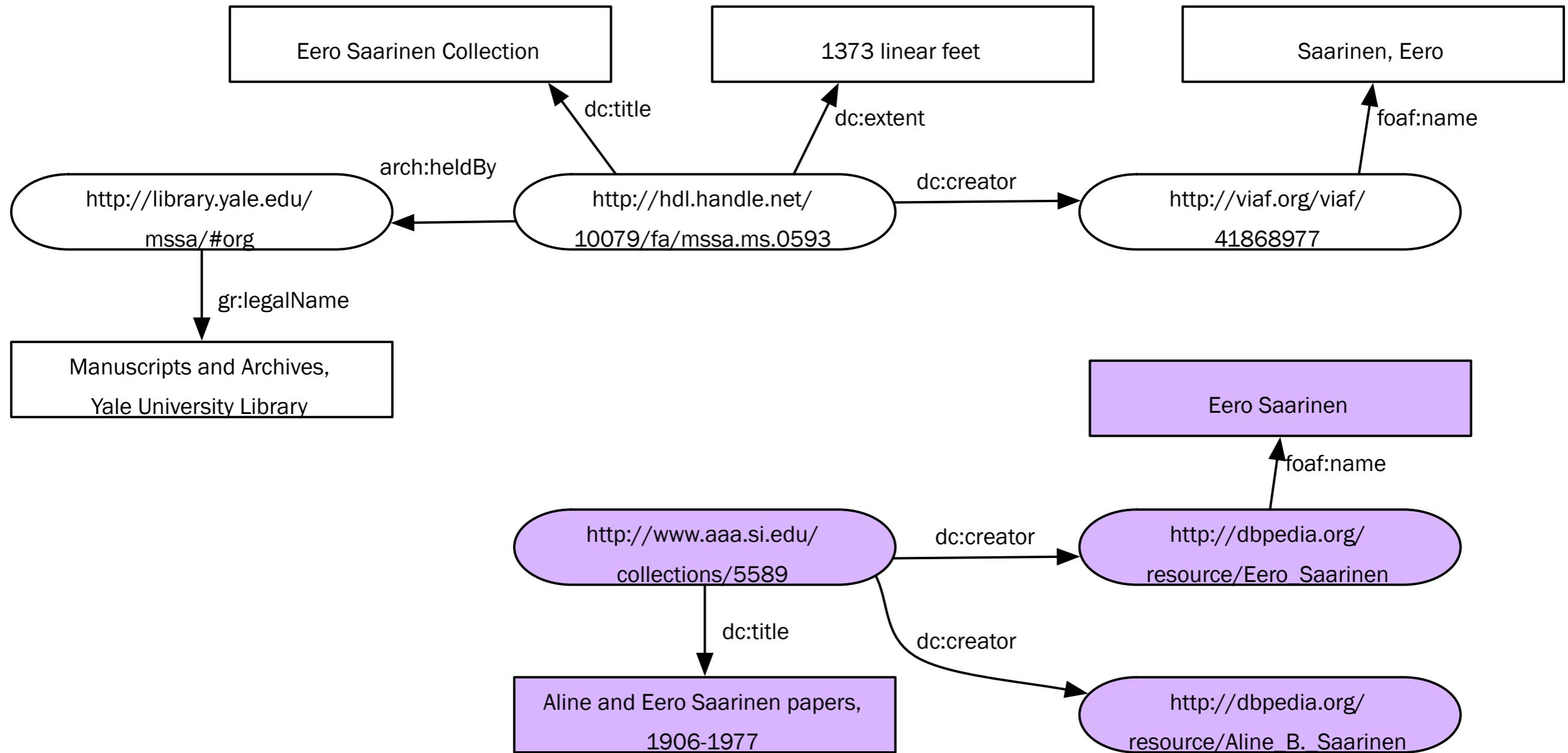
↓
(Information)

peter scott (1966)

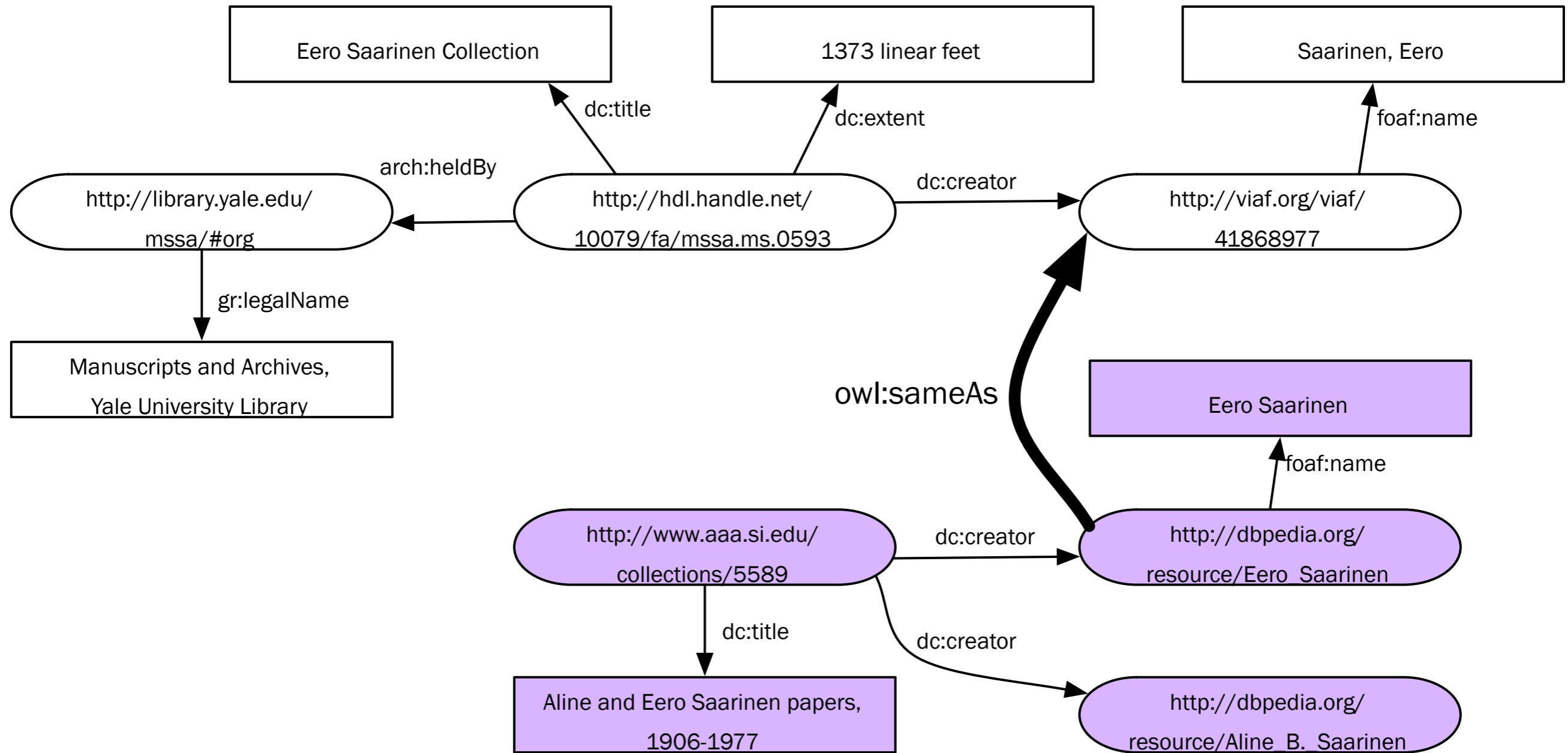




archival example:
we have this graph.



we have another...



let's combine them



make
your
DATA
work
BETTER

THANKS!

<http://matienzo.org>