

Libraries and Linked Data

Confessions of a Graph Addict

**Ed Summers
June 24, 2010**

<http://bit.ly/ehs-ala2010>

**The URL is the currency of the web.
For something to be referenced, to
be talked about, to be shared in the
web environment, it needs to have a
URL.**

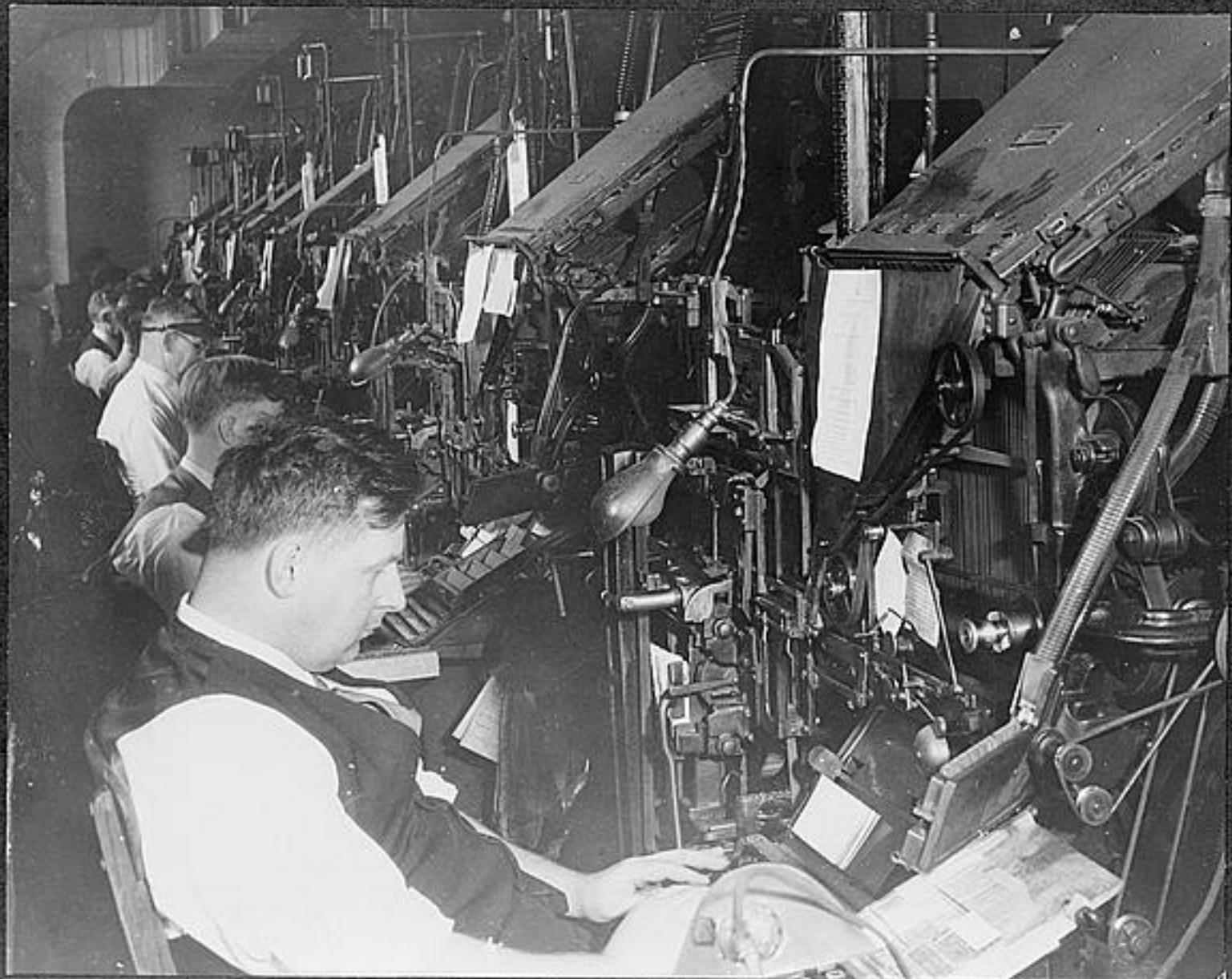
Lorcan Dempsey, An addressable knowledgebase.
March 30, 2006.
<http://or weblog. oclc.org/archives/000984.html>

MARC Must Die.

Roy Tennant, MARC Must Die. October 15, 2002.
<http://www.libraryjournal.com/article/CA250046.html>

To die is different from what any
one supposed, and luckier.

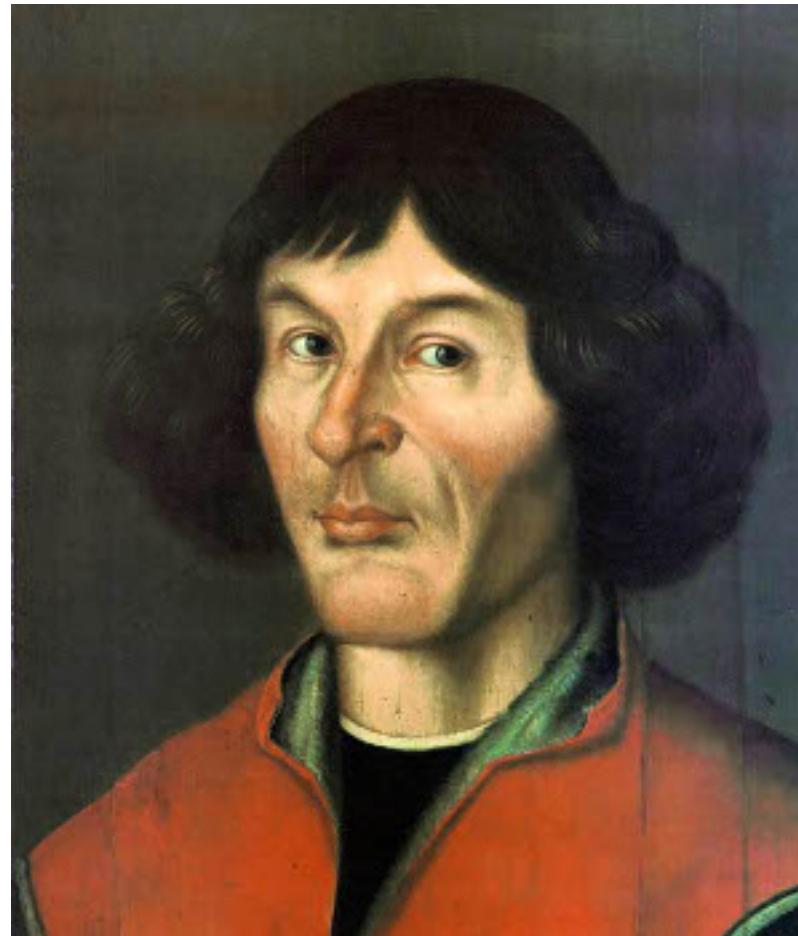
Walt Whitman, Leaves of Grass, 1855.



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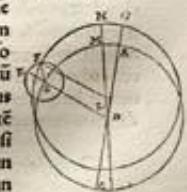
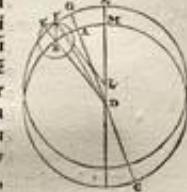


100 1# \$a Copernicus, Nicolaus, |d 1473-1543.

esse in α , inaequalitatem uero apparetur in α epicyclo. Quoniam si α mouetur ad partes α , hoc est in consequentia: ceterum uero terrae ex γ apogeo in precedentiis, magis apparetur moueri in perigeo, quod est, eo quod bini motus ipsorum α & γ fuerint in eisdem partibus: in apogeo uero quod est γ , videbitur esse tardius ipsum α , utpote quod à uincere motu solunno do è duobus contrariis mouetur, atq; in α constituta terra precedet motu aequali, in γ uero sequetur, & utrobicq; secundum α & γ circumferentiam, quibus idcirco etiam Sol diversimode moueri uidebitur. Quaecunque uero per epicyclum sunt, possunt eodem modo per eccentricum accidere, quæ transitus sideris in epicyclo describit aequali homocentro, ac in eodem plano, cuius eccentrici centrum distat ab homocentri centro magnitudine semidiametri epicyclij. Quod etiā tribus modis contingit. Quoniam si epicyclū in homocentro, & sideris in epicyclo pares faciant revolutiones, sed motibus iniucē obuiantibus, fixū designabit eccentricū motus sideris, utpote cuius apogei & perigei immutabiles sedes obtineant. Quemadmodum si fuerit α & γ homocentrus, centrum nūdi α , dimidiens α & γ , ponamusq; quod cum epicyclum esset in α , sideris fuerit in apogeo epicyclij, quod sit in γ , & dimidia diametri ipsius in rectam lineam d α & capiatur autem α circumferentia homocentri ex centro γ , distantia uero aequali α & epicyclum describitur γ , & extendantur d α & γ in rectam lineam: sumaturq; circumferentia α & γ contrariaspates, atq; similis ipsi α , siq; in γ sideris uel terra, & coniungatur γ , capiatur etiam in α linea segmentum d α aequaliter ipsi γ . Quoniam igitur anguli qui sub α & γ , & d α sunt aequales, & propter eas & d α parallelis atq; aequalibus: aequalibus autem & parallelis rectis lineis, si recta linea coniungantur, sunt etiam paralleli & aequalis, per xxxiiii, primi Eucli. Et quoniam d α , aequaliter

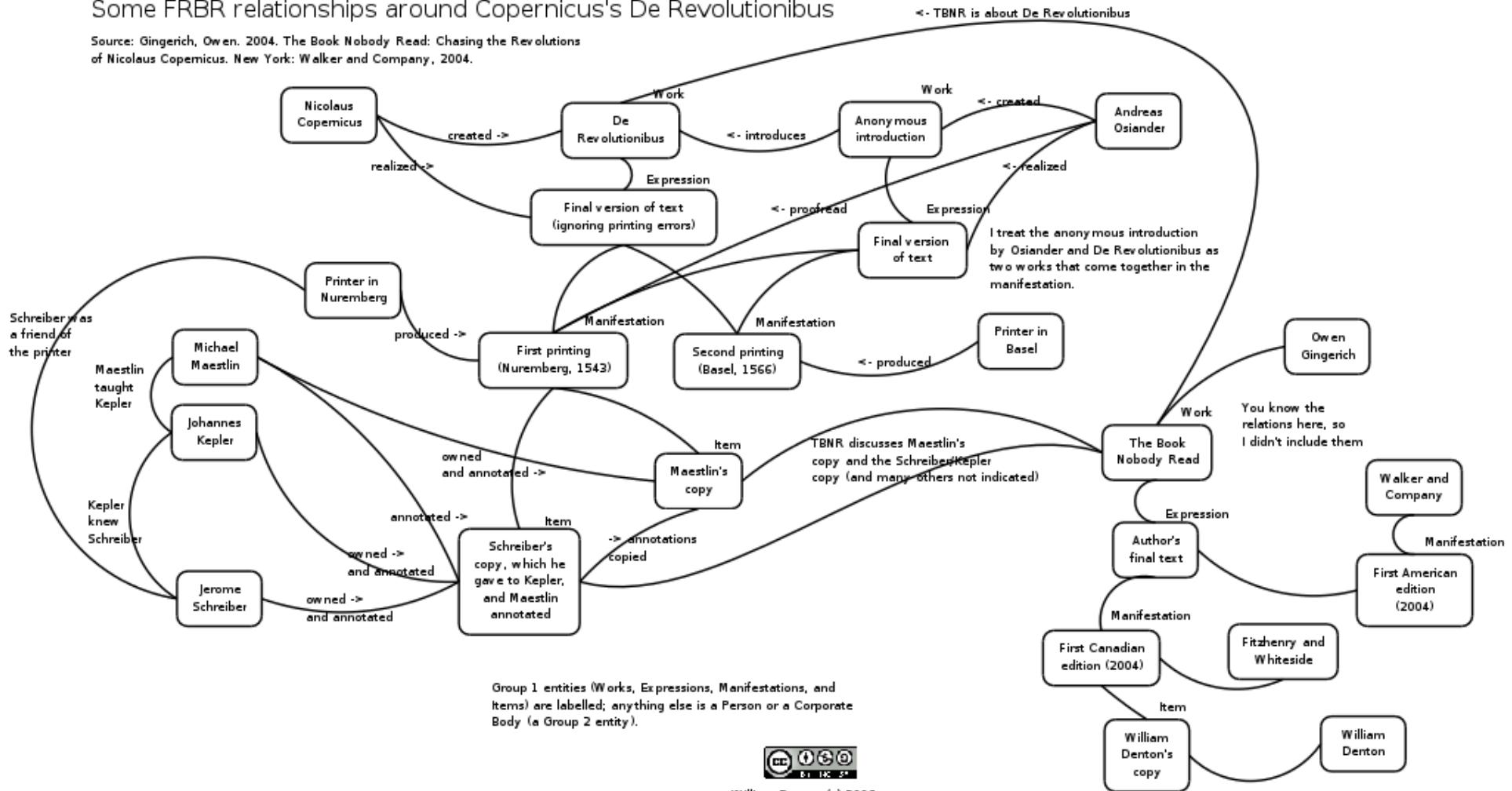


nuntur aequales, communis apponatur α , erit α & γ aequalis ipsi α & γ aequalis igitur etiam ipsi α , Centro igitur α , distans autem α & γ descriptus circulus transibit per γ , quæ quidem ipsum γ motu composto ipsorum α & γ descripsit eccentricum homocentrum aequali, & idcirco etiam fixum. Cum enim epicyclum pares cum homocentro fecerit revolutiones, necesse est absides eccentrici sic descripsi codem loco manere. Quod si disparates centrum epicyclij & circumferentia fecerint revolutiones, jam non fixum designabit eccentricum motus sideris, sed cum eius circumferentia & absides in precedentiis uel consequentiis ferantur, prout sideris motus celerior tardior uice facit centro epicyclij sui. Quemadmodum si γ maior fuerit angulo $d\alpha$ & α , aequalis autem illi constitutus qui sub $d\alpha$ demonstrabitur istidem, quod si γ in linea, capiatur $d\alpha$ aequaliter ipsi γ , atq; $d\alpha$ centro: distantia autem $d\alpha$ γ aequali $d\alpha$, descripsit circulus transibit per γ sideris, quo sit manifestum γ circumferentia, motu sideris composto descripsi, eccentrici circuli, cuius apogaeum γ signo migrauit interim in precedentiis per α & circumferentias. Contra uero, si lentoer fuerit sideris in epicyclo motus, tunc eccentrici centrum in consequentiis succedit, atq; eo quo epicyclij centrum feretur, utputa si γ in angulo minor fuerit ipsi $d\alpha$, aequalis autem ei qui sub $d\alpha$, manifestū est eueneire quo diximus. Ex quibus omnibus patet tandem semper apparente inaequalitate produci, siue per epicyclum in homocentro, siue per eccentricum circulum aequali homocentro, nihilq; inuicem differere, dummodo distantia centrorum aequalis fuerit ei, quæ ex centro epicyclij. Utrum igitur eorum existat in celo, non est facile discernere. Ptolemaeus quidem ubi simpliciter intellexit inaequalitatem, ac certas immutabilesq; sedes absidum (ut in Sole putabat) eccentricis rationem arbitrabatur sufficere. Luna uero ceterisq; quinque planetis dupli siue pluribus differet, y



Some FRBR relationships around Copernicus's De Revolutionibus

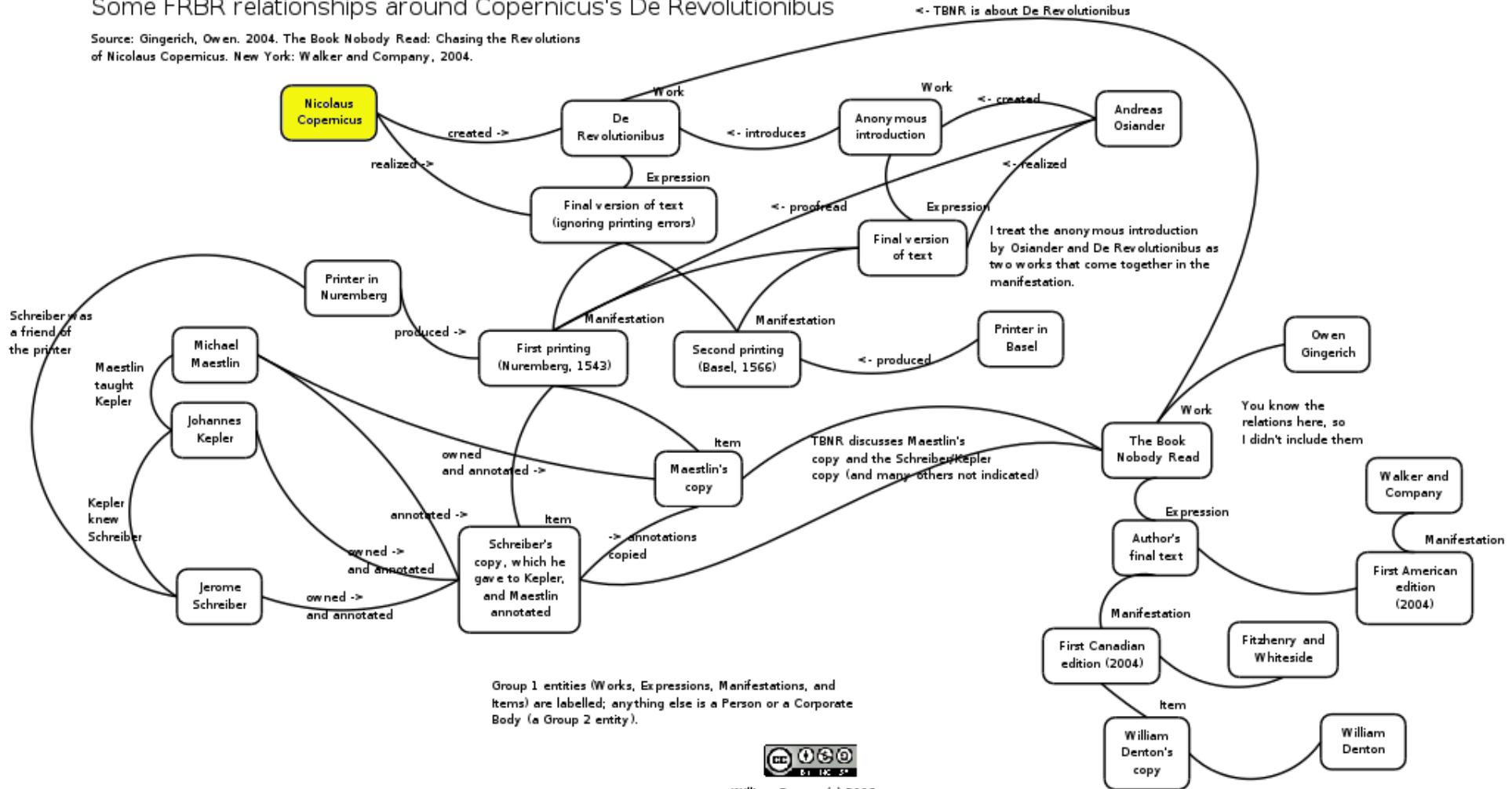
Source: Gingerich, Owen. 2004. *The Book Nobody Read: Chasing the Revolutions of Nicolaus Copernicus*. New York: Walker and Company, 2004.



William Denton (c) 2006

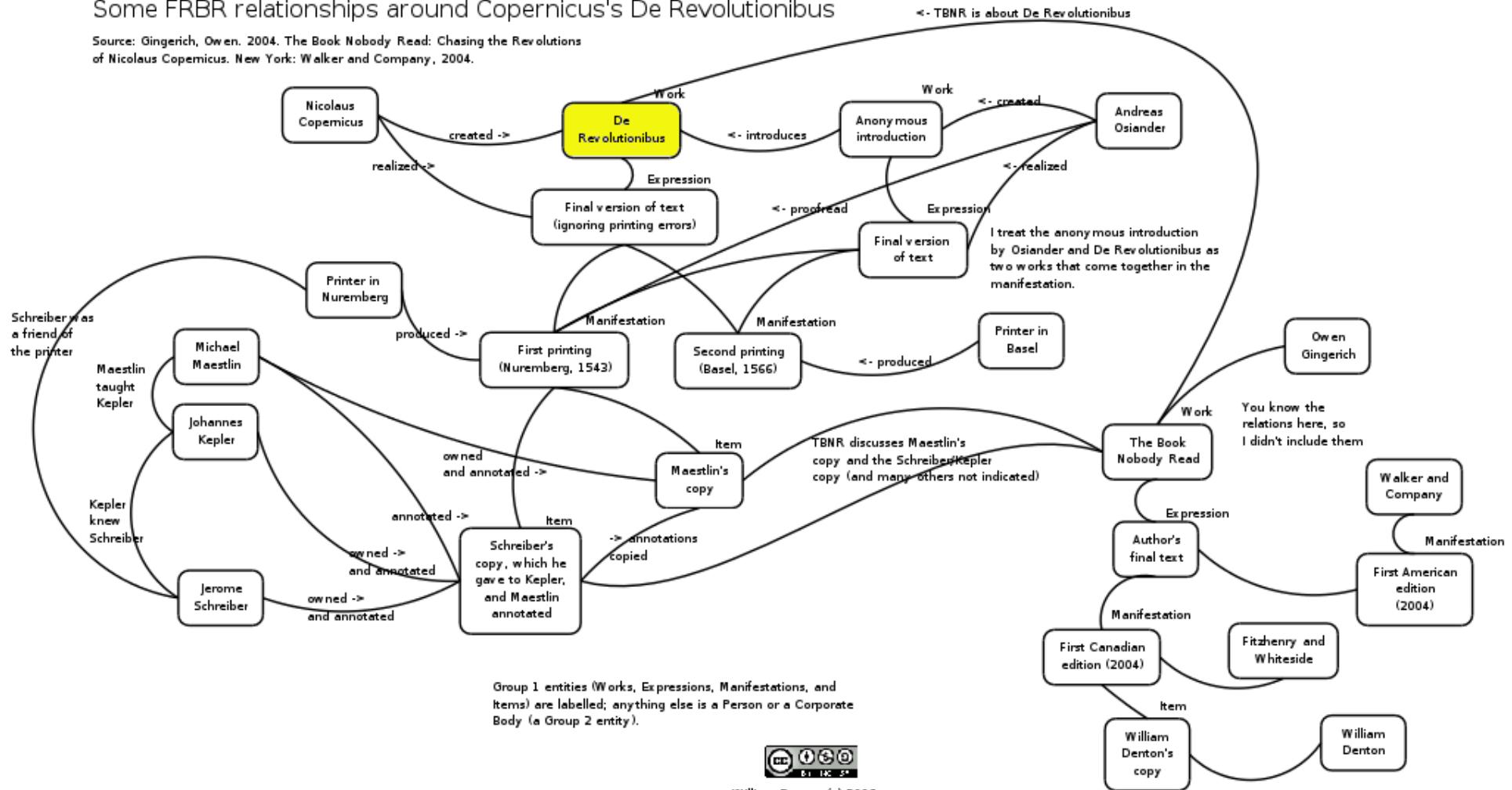
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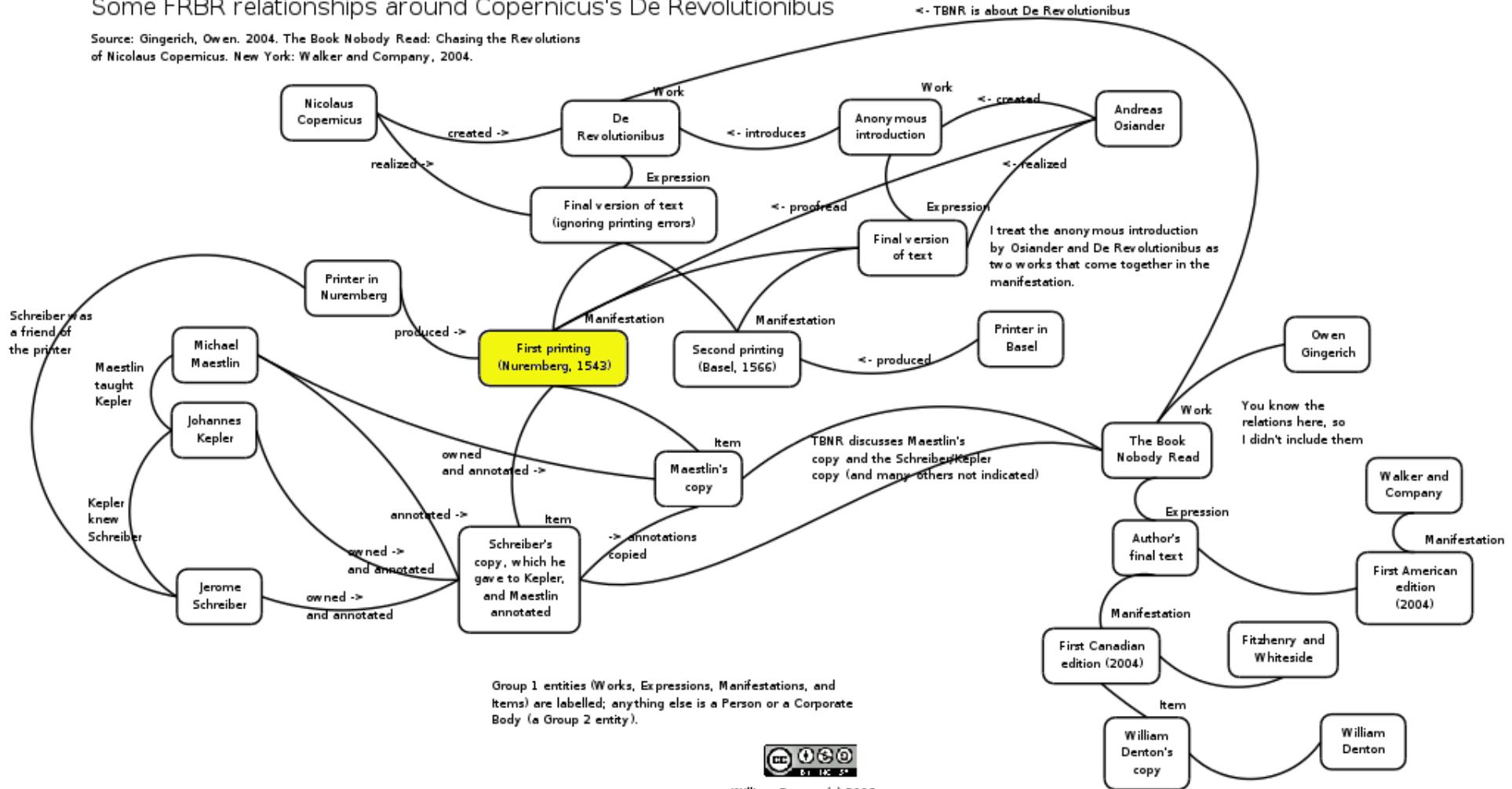
Some FRBR relationships around Copernicus's *De Revolutionibus*

Source: Gingerich, Owen. 2004. *The Book Nobody Read: Chasing the Revolutions of Nicolaus Copernicus*. New York: Walker and Company, 2004.



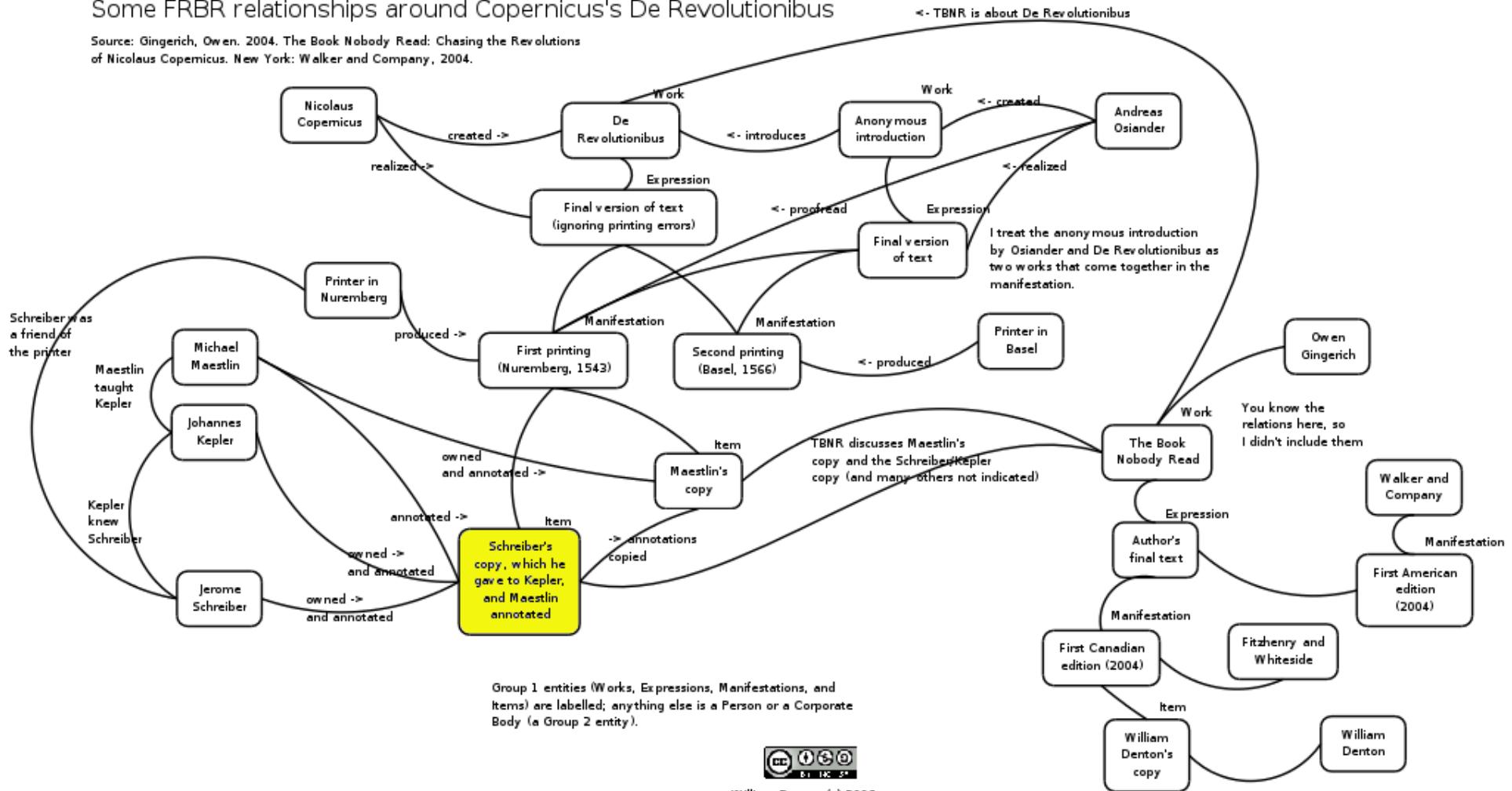
Some FRBR relationships around Copernicus's De Revolutionibus

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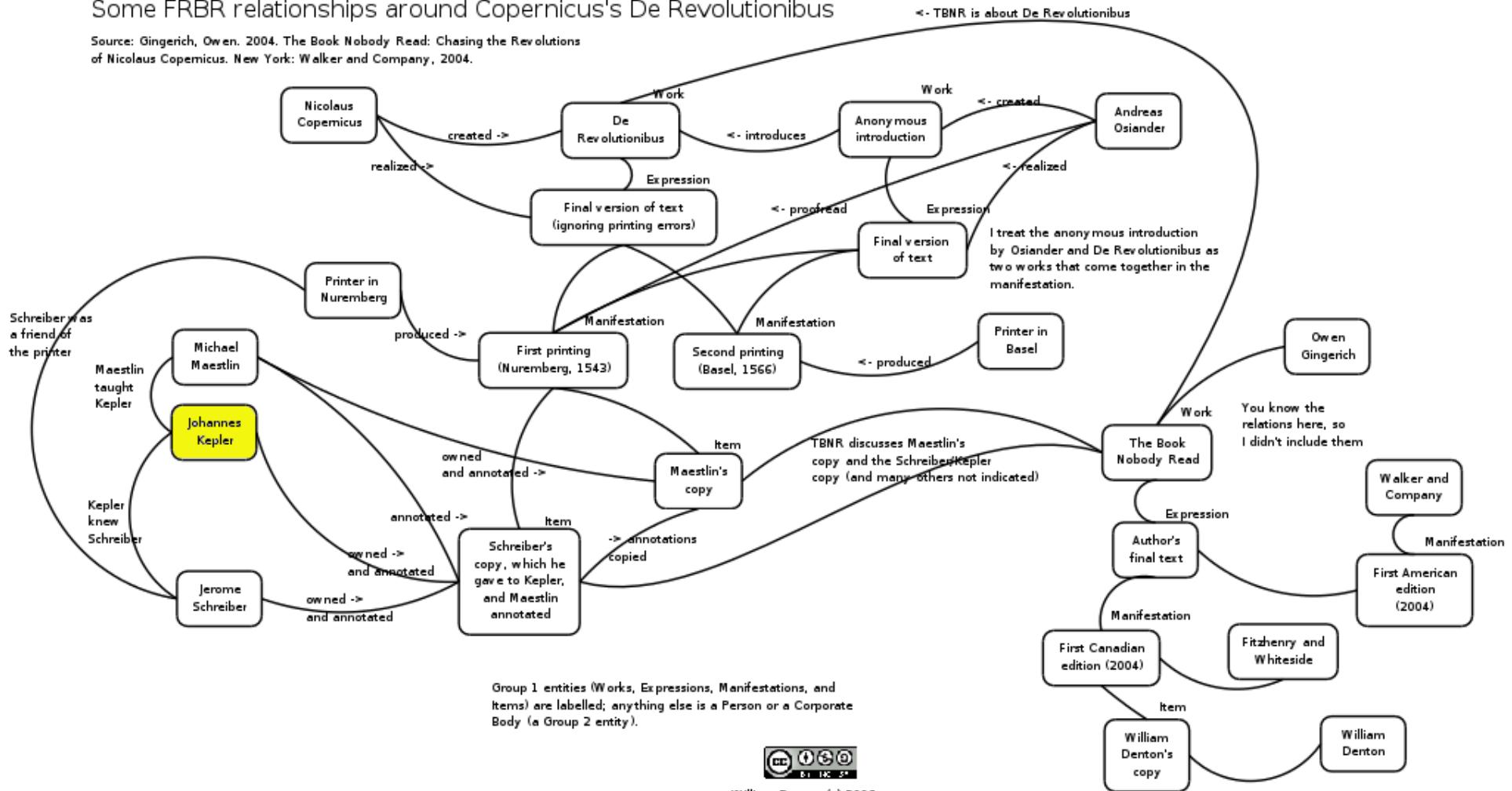
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Source: Gingerich, Owen. 2004. *The Book Nobody Read: Chasing the Revolutions of Nicolaus Copernicus*. New York: Walker and Company, 2004.



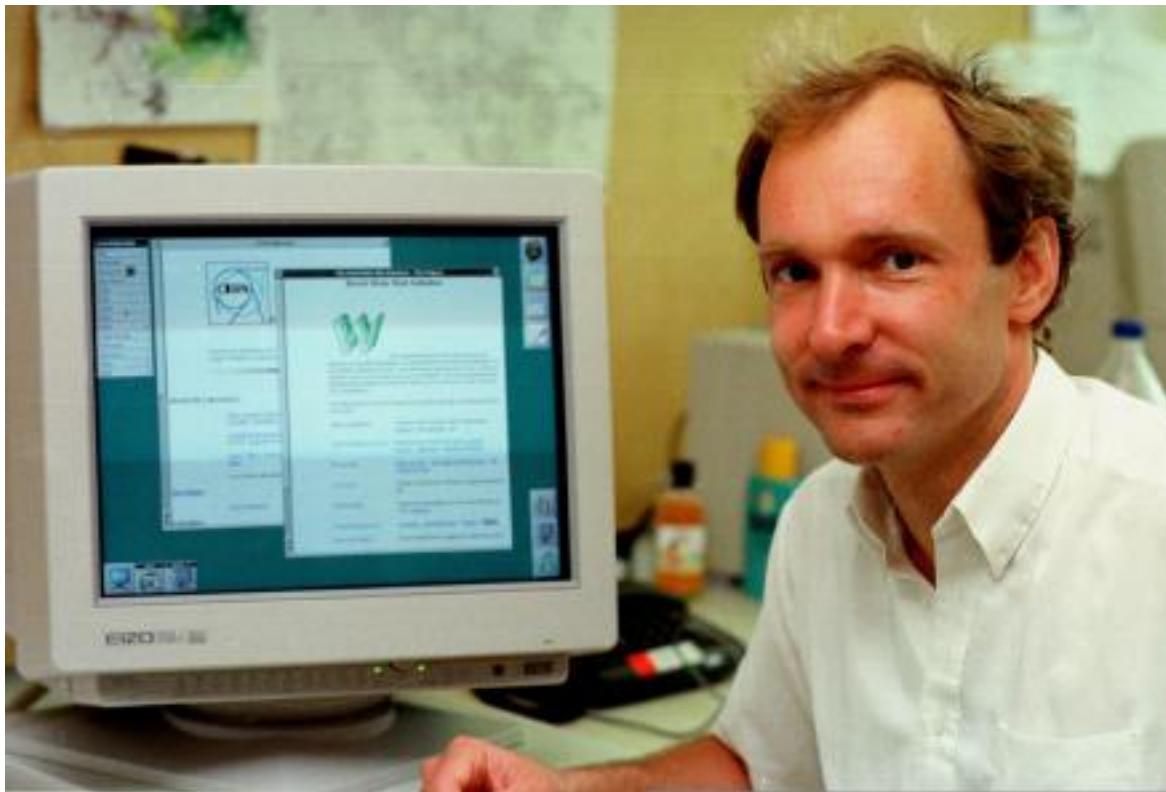
From Moby Dick to Mash-Ups: Thinking About Bibliographic Networks

Ron Murray and Barbara Tillett

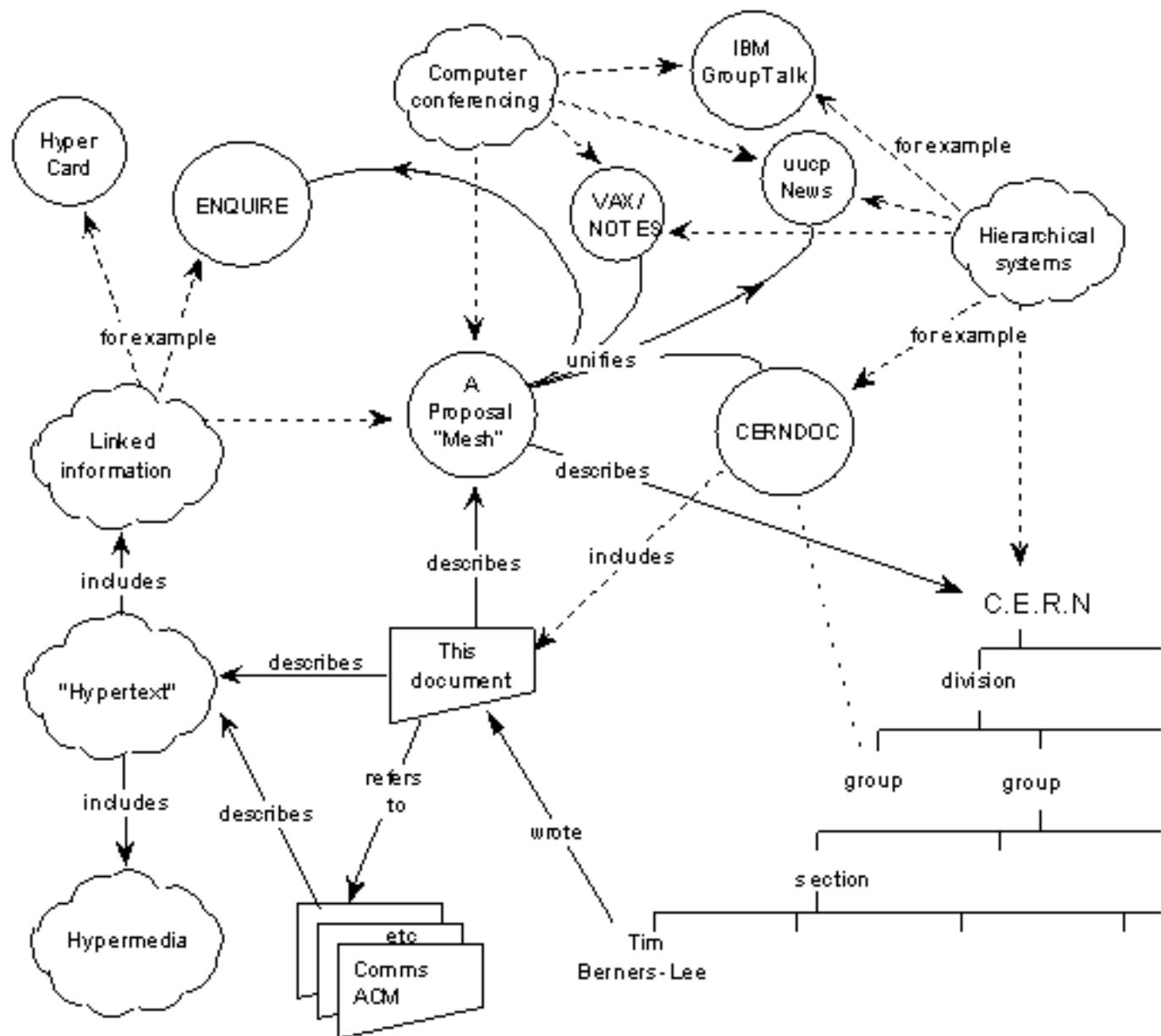
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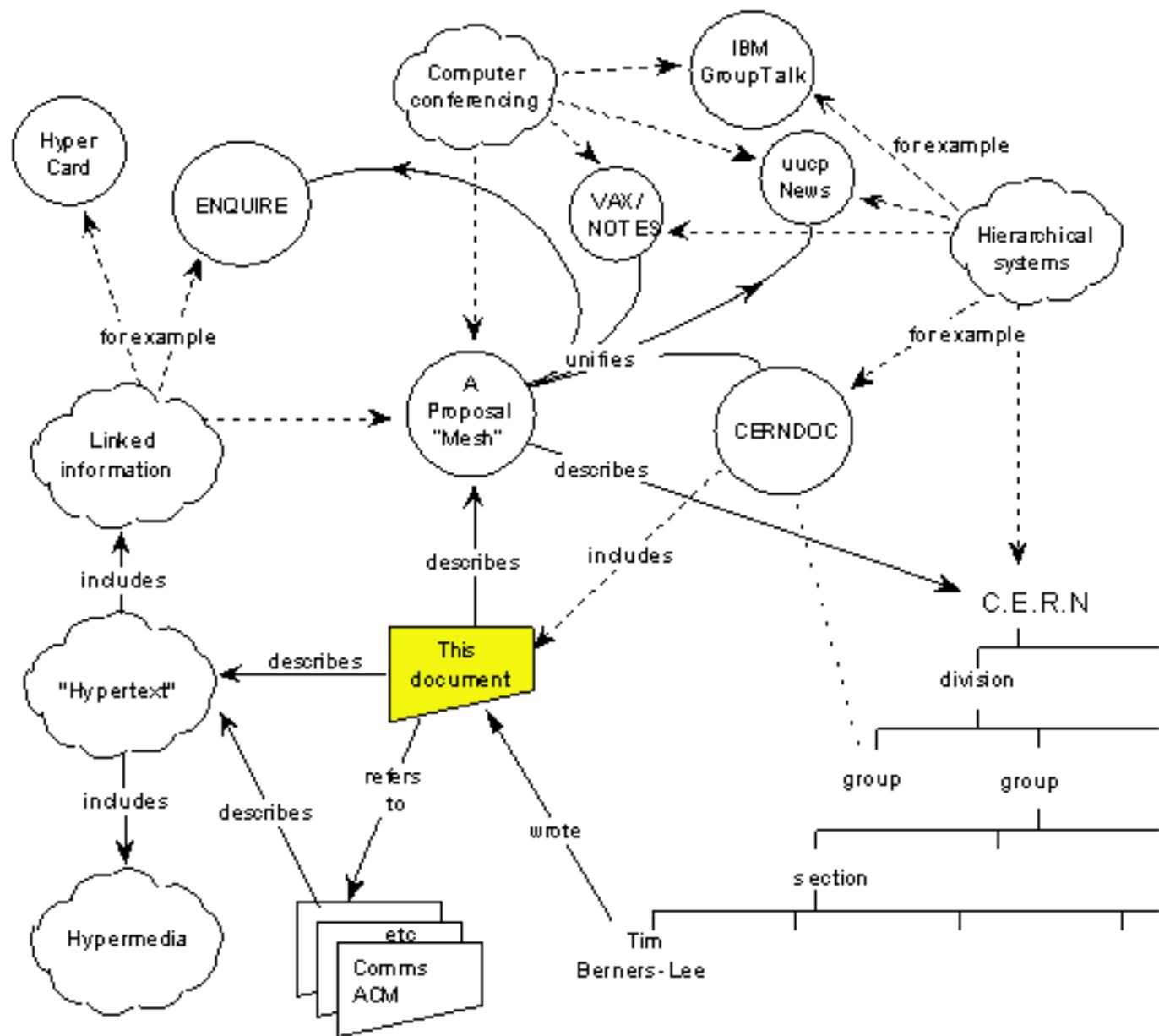
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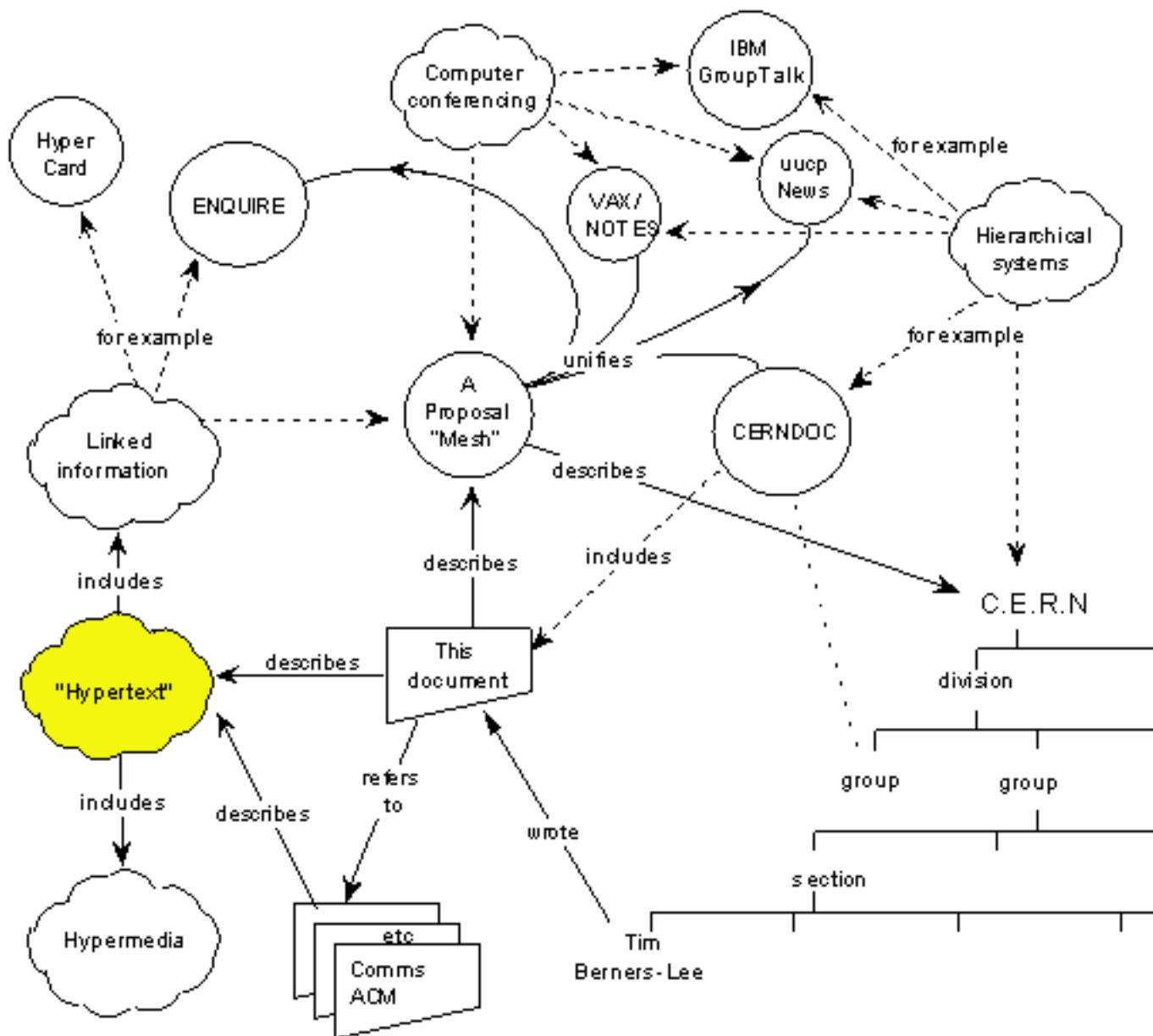
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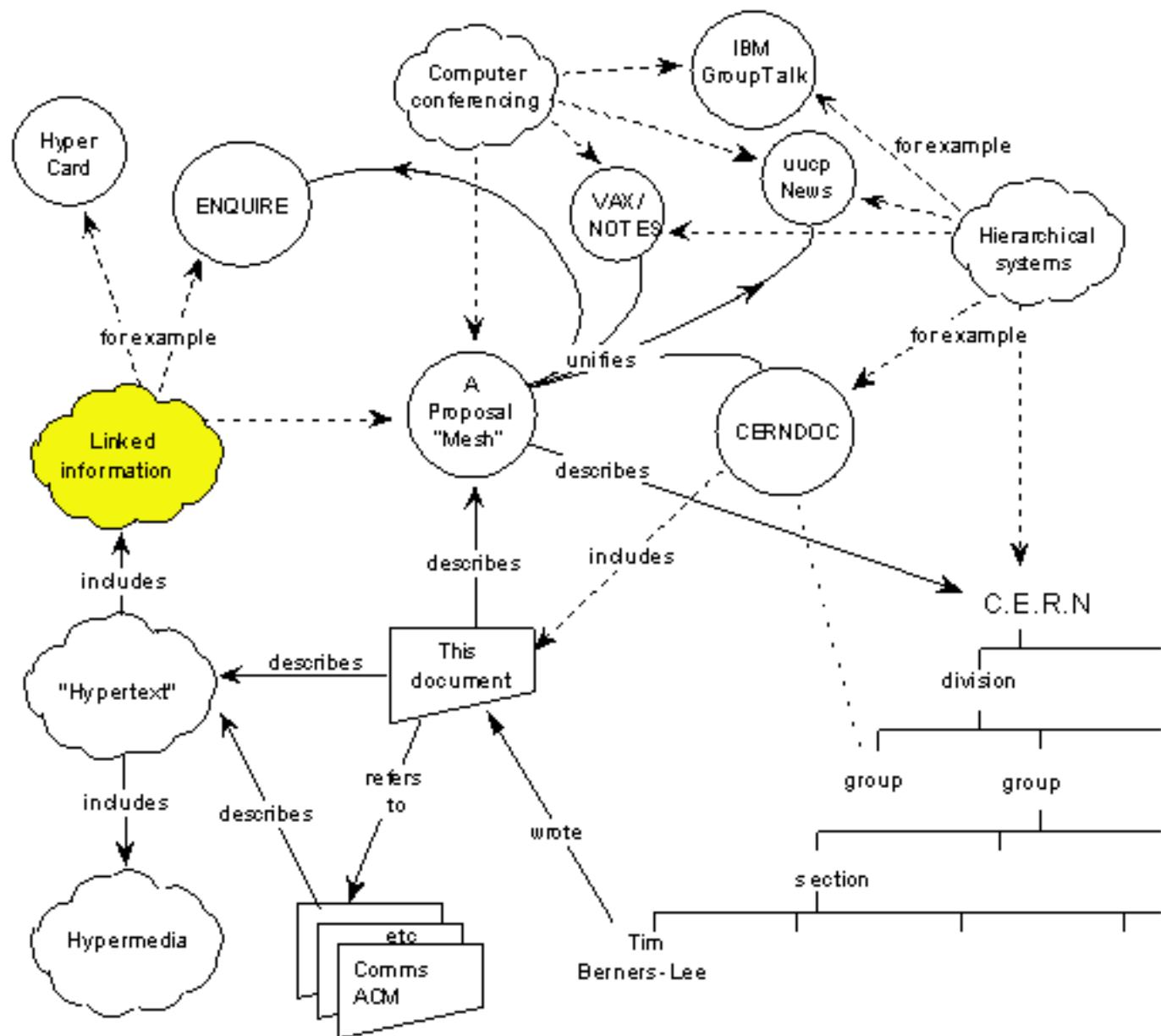


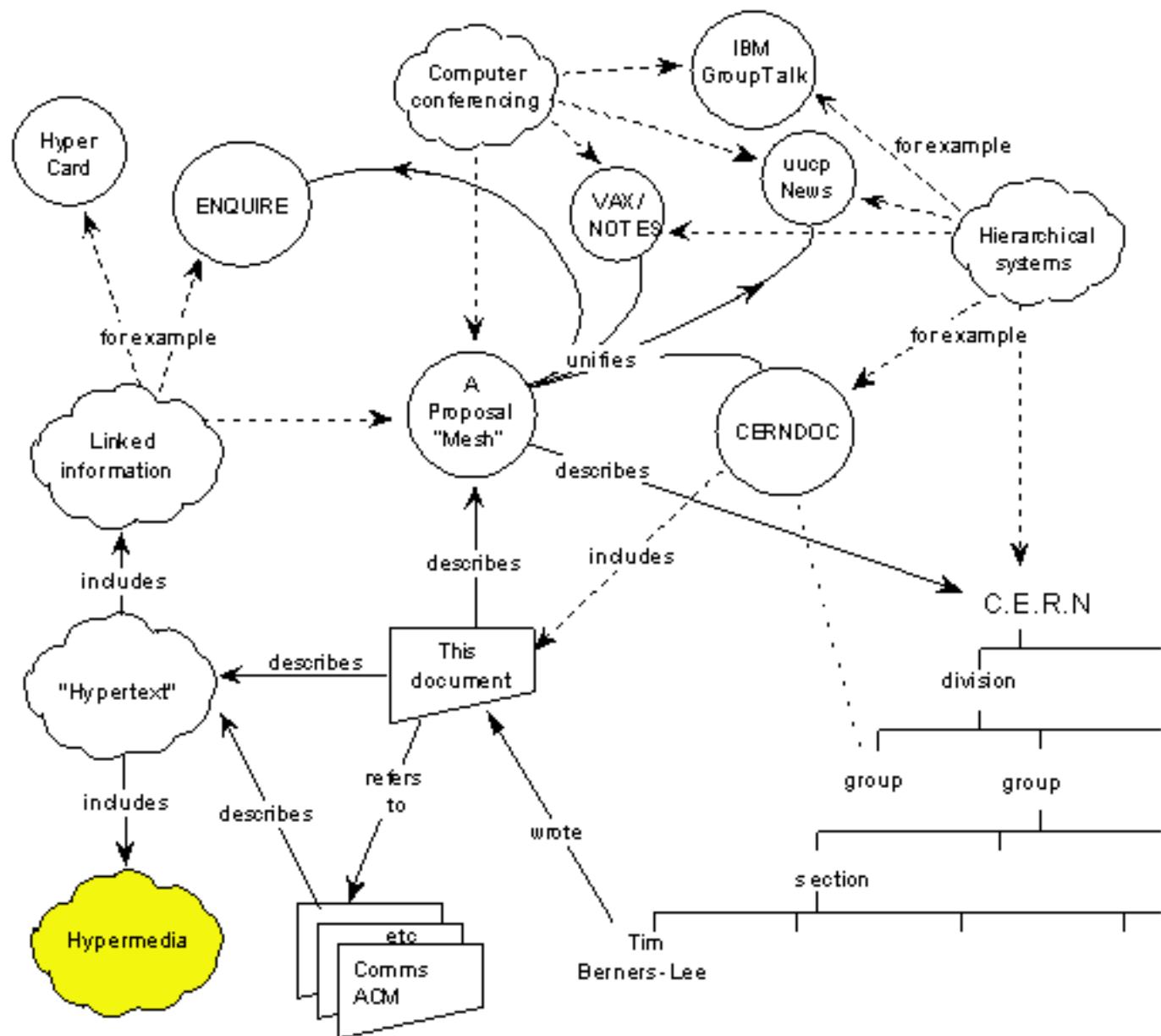
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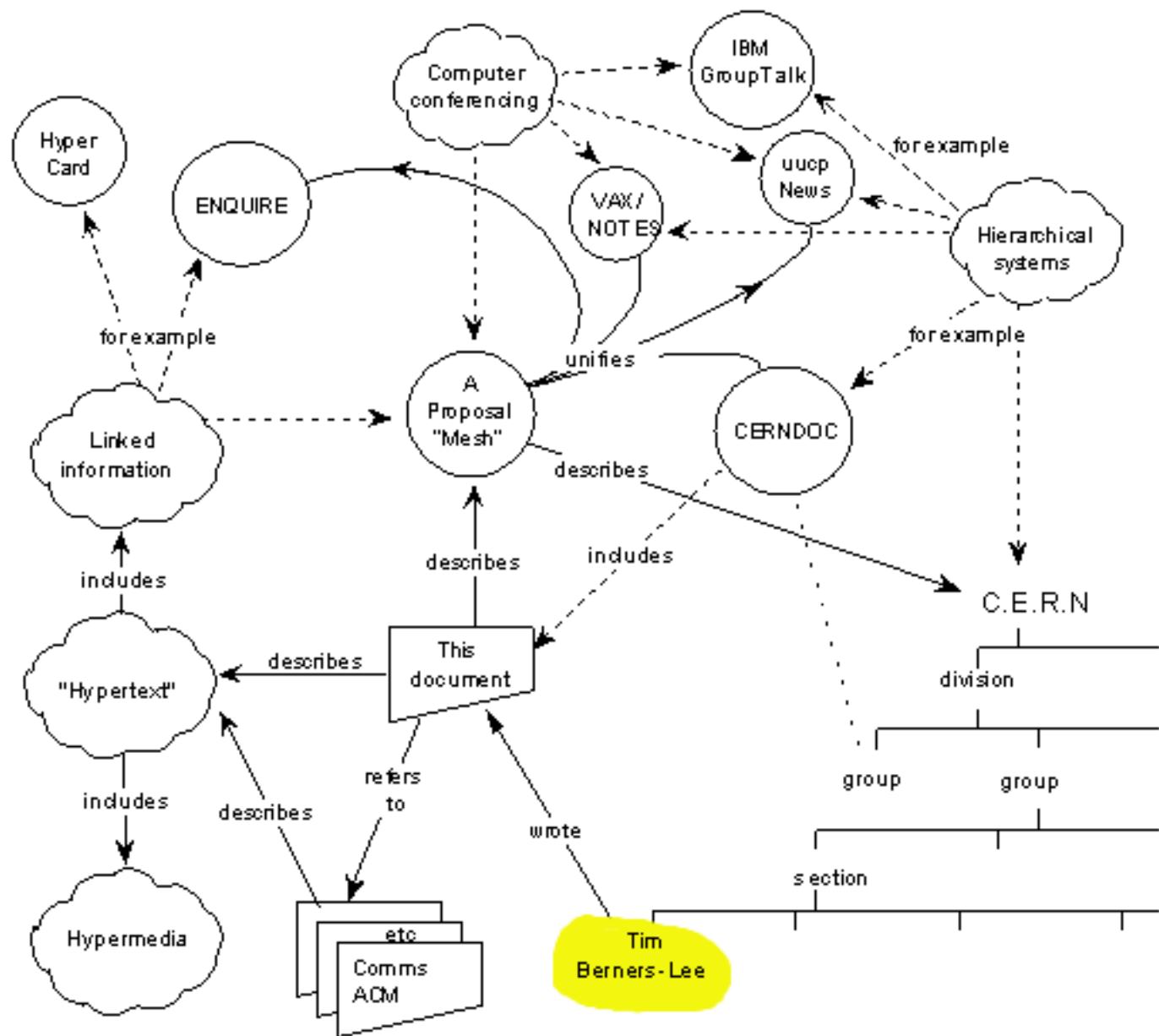


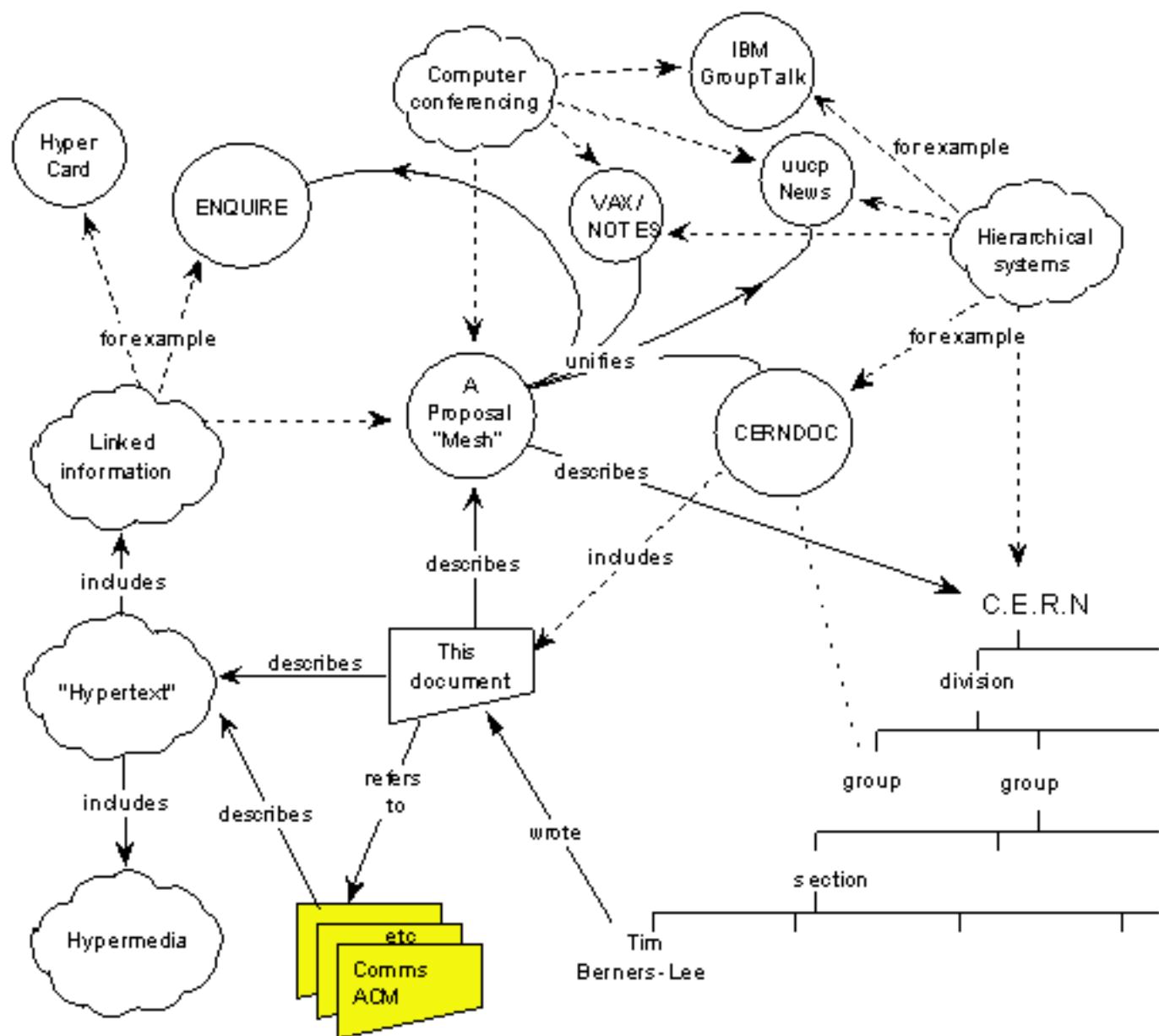


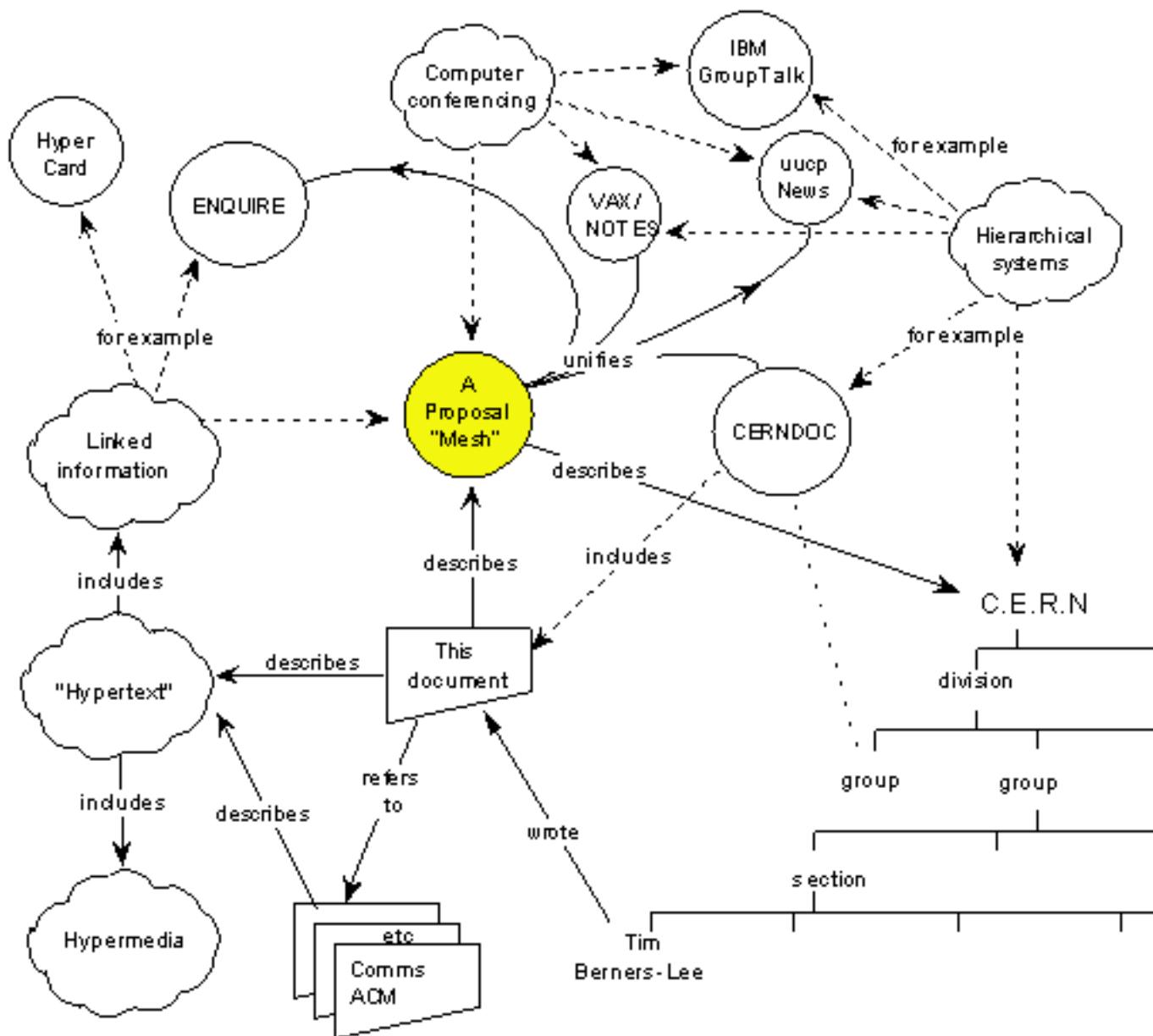


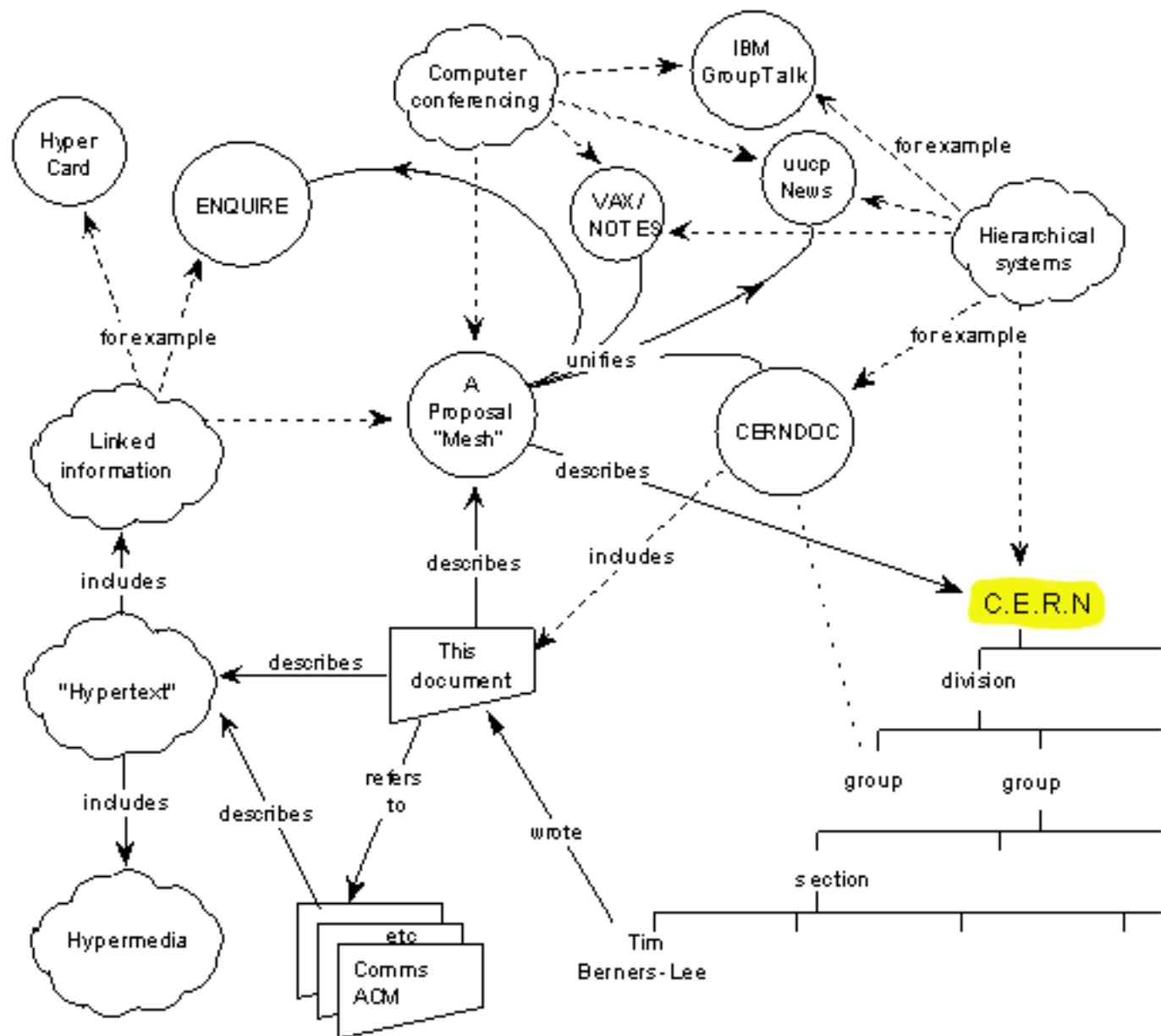












Linked Data Design Issues

1. Use URIs as names for things.
2. Use HTTP URIs so people can look up those things.
3. When someone looks up a URI, provide useful information.
4. Include links to other URIs, so they can discover more things.

<http://www.w3.org/DesignIssues/LinkedData.html>

Linked Data Design Issues

1. Use URIs as names for things.
2. Use HTTP URIs so people can look up those things.
3. When someone looks up a URI, provide useful information, **using the standards (RDF, SPARQL)**.
4. Include links to other URIs, so they can discover more things.

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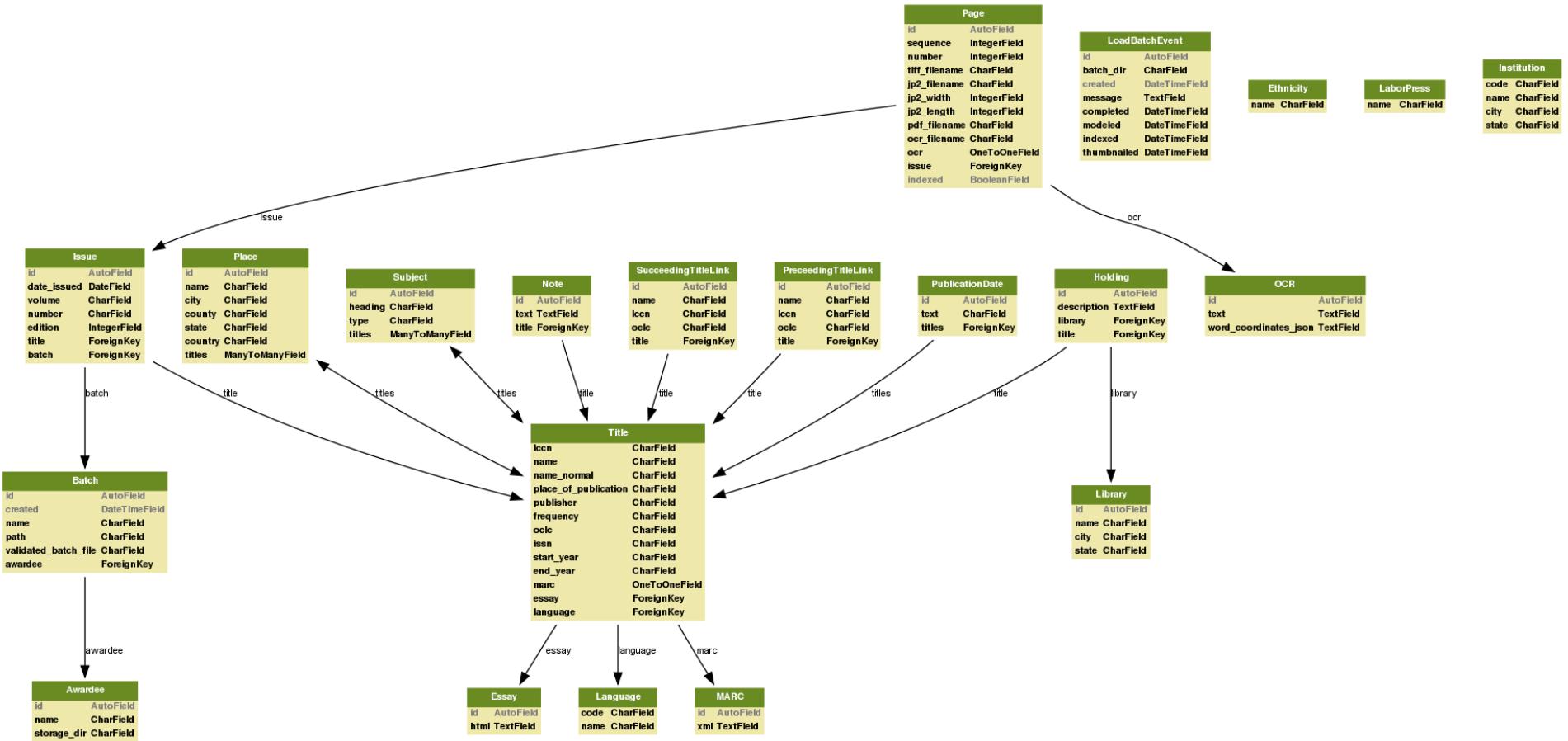
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Title:

New-York tribune. : (New York [N.Y.]) 1866-1924

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Alternative Titles:

Combined New York morning newspapers Sept. 19-26, 1923

Combined New York Sunday newspapers

New York daily tribune

New York tribune

New-York daily tribune 1866-Mar. 31, 1912

Place of publication:

New York [N.Y.]

Geographic coverage:

New York, New York, New York

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Publisher:

New York Tribune

Dates of publication:

1866-1924

Description:

Vol. 26, no. 7,802 (Apr. 10, 1866)-v. 83, no. 28,247 (Mar. 18, 1924).

Frequency:

Daily Dec. 7, 1879-1924

Language:

English

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1866-1924, January 10, 1880, Image 1



Title: New-York tribune. (New York [N.Y.])
1866-1924, January 10, 1880, Page 2,
Image 2



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New-York tribune. (New York [N.Y.]) 1866-1924

January 10, 1880, Image 1

IMAGE: 1 of 8. Image provided by: Library of Congress, Washington, DC.

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2009-12-09 14:07:21	batch_az_coyote_ver01	Arizona State Library, Archives and Public Records; Phoenix, AZ	8873
2009-12-09 14:07:21	batch_wa_cedar_ver01	Washington State Library; Olympia, WA	14680
2009-12-09 14:07:21	batch_kyu_fargo_ver01	University of Kentucky, Lexington, KY	11451
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2009-12-04 01:19:38	batch_vi_zztop_ver01	Library of Virginia; Richmond, VA	2572
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2009-12-03 21:07:43	batch_vi_aerosmith_ver01	2184
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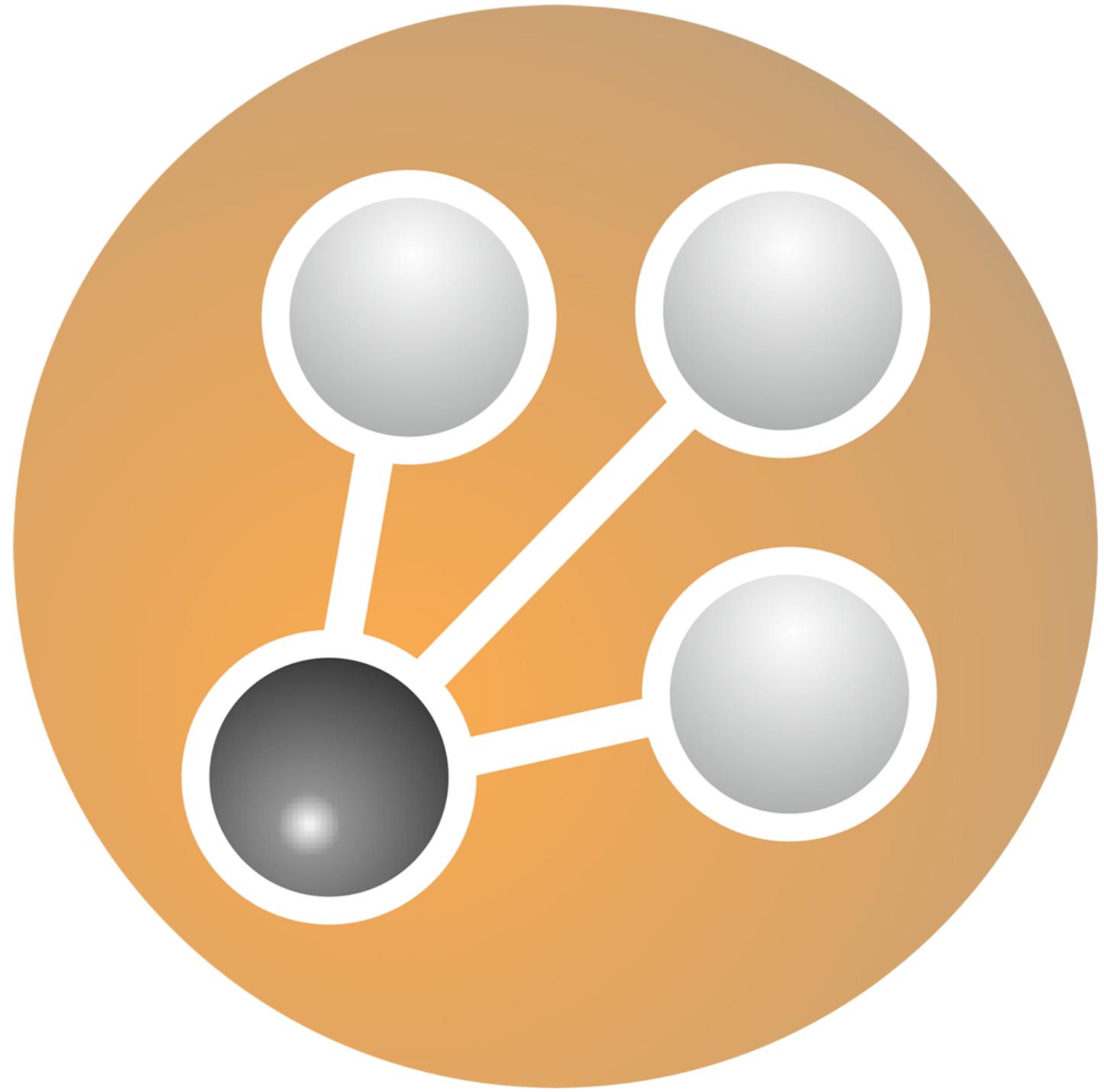
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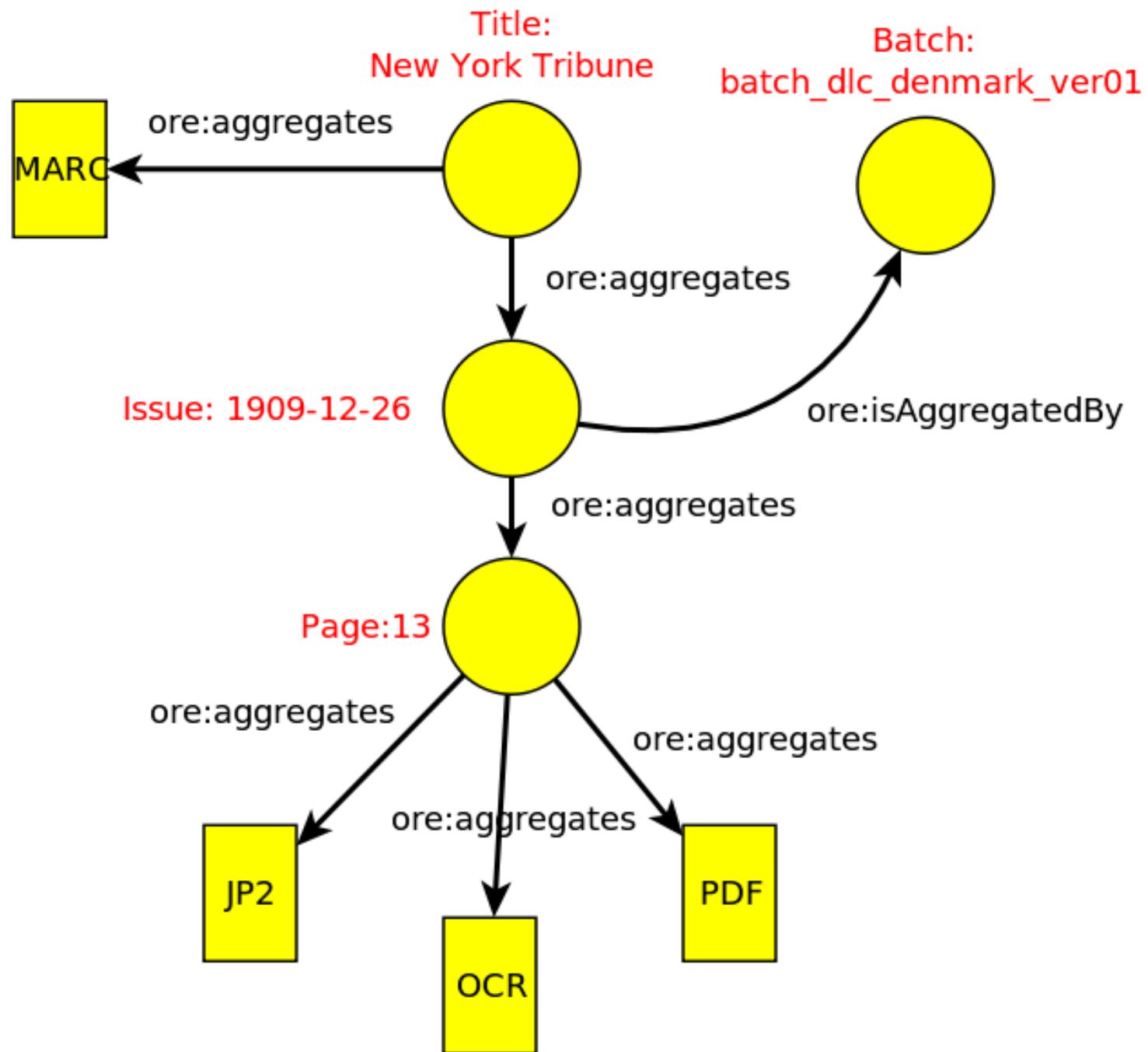
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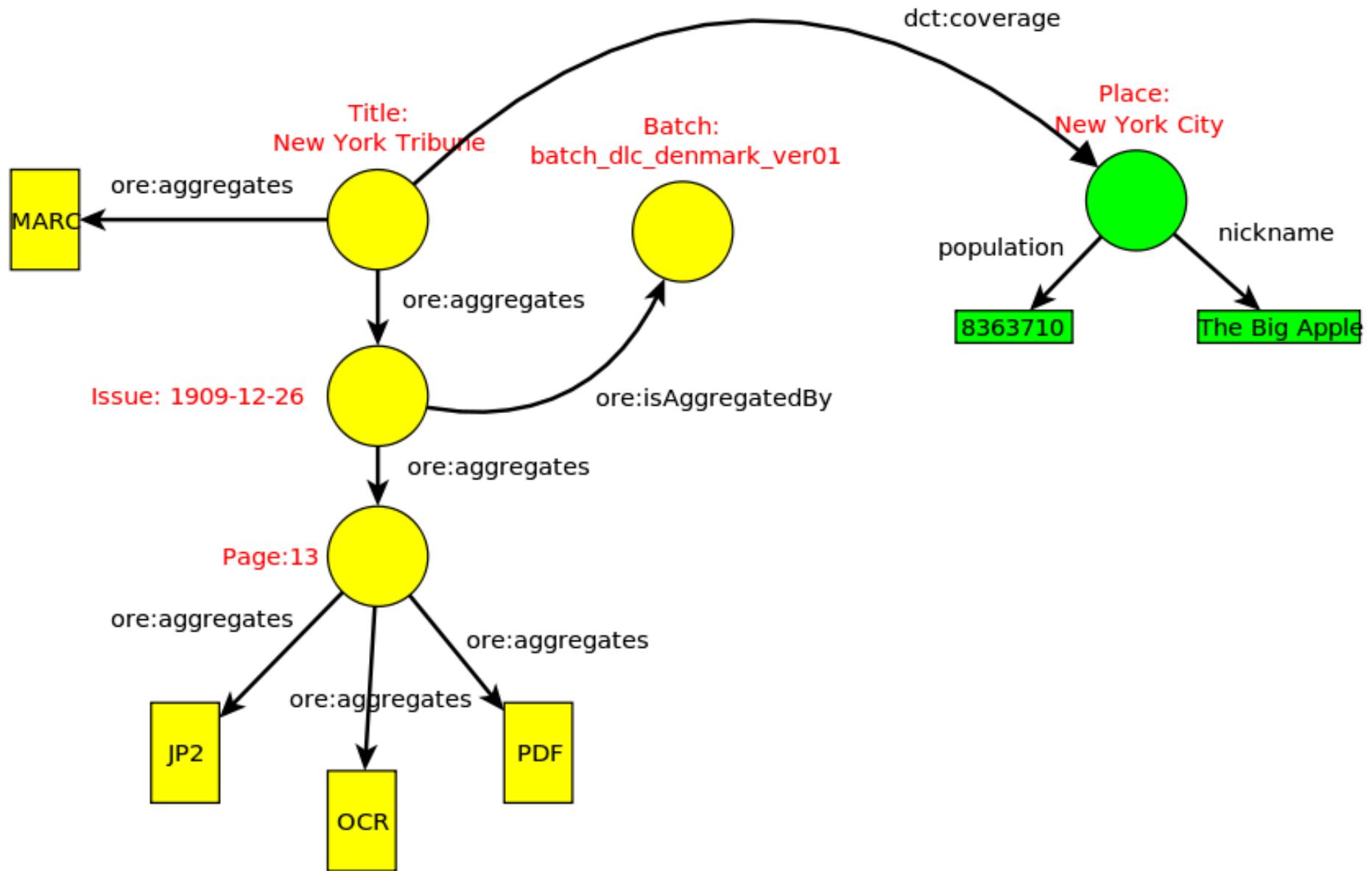
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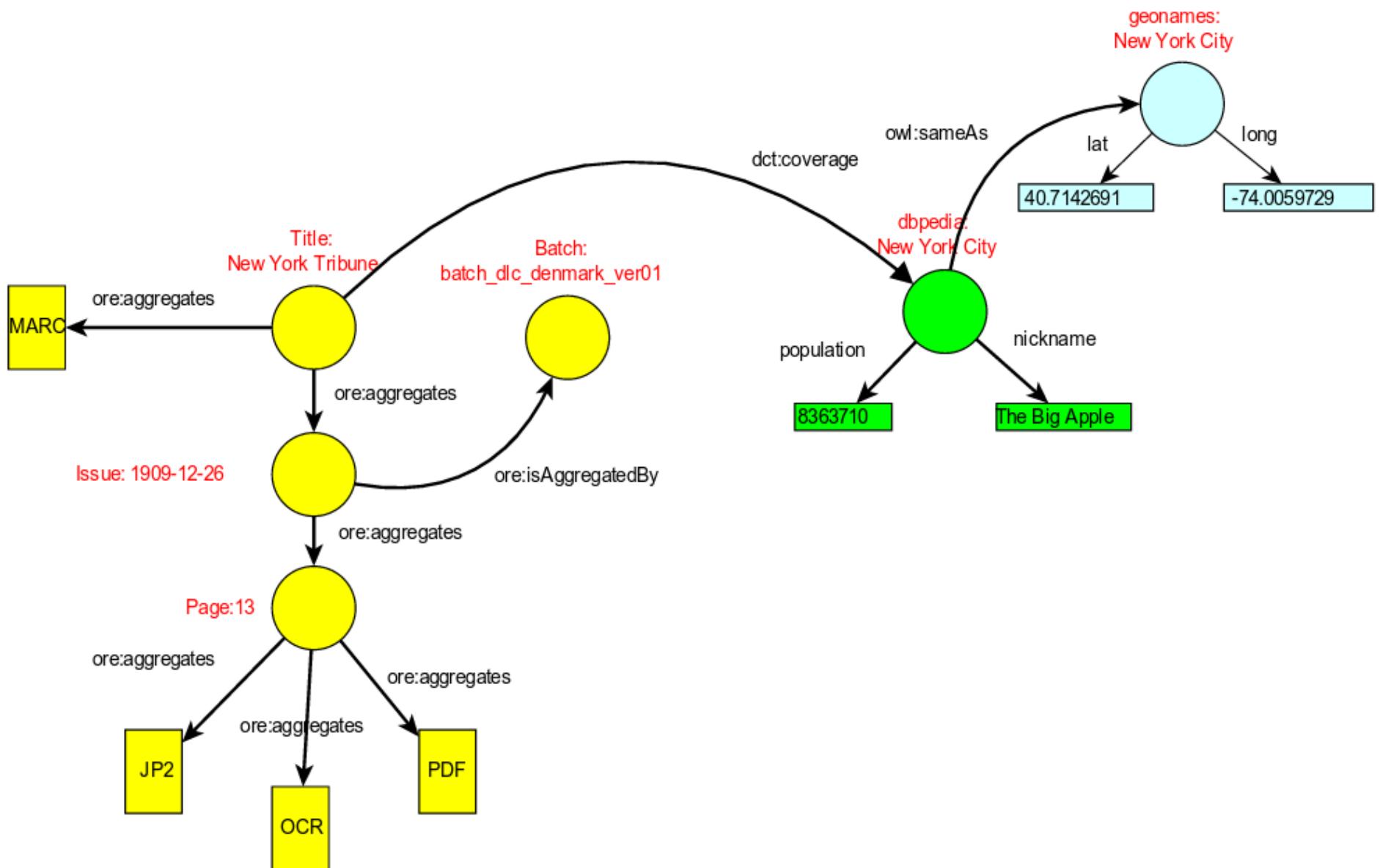
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Genealogies of old newspapers

MAY 13TH, 2010 § 2

Even before the Internet disrupted their environment in ways that are still unfolding, newspapers were complicated things, at once periodical publications, businesses, and devices of social organization and communication. The names of the best-known newspapers carry an aura of institutional solidity — the New York Times, the Wall Street Journal — but the history of newspapers includes many locales, many more papers, some of them short-lived, many changes in ownership, editorial leadership and political stance. Mergers and renamings have left their stamp on names like Star-Ledger, Journal-Constitution, Post-Gazette. We cite historical newspapers by name and date, usually ignoring the complexities of daily variations in editions and other irregular publication patterns that made newspapers awkward misfits in book-oriented bibliographic contexts long before digital media added new complications. Editorial page writers and historians have often employed without apology the convenient social fiction that a newspaper is a continuous identity of singular agency, judging that a more precise account would be hopelessly unwieldy. But they have been in a position to know how much of a fiction it is.

Ten years ago I had the good fortune to participate in the preparation of the [Encyclopedia of Chicago](#). The editors sought to supplement the alphabetical entries with a number of new maps, tables, and charts. One of my colleagues prepared several charts to visualize highlights of the history

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By Steven Bird, Ewan Klein, Edward Loper
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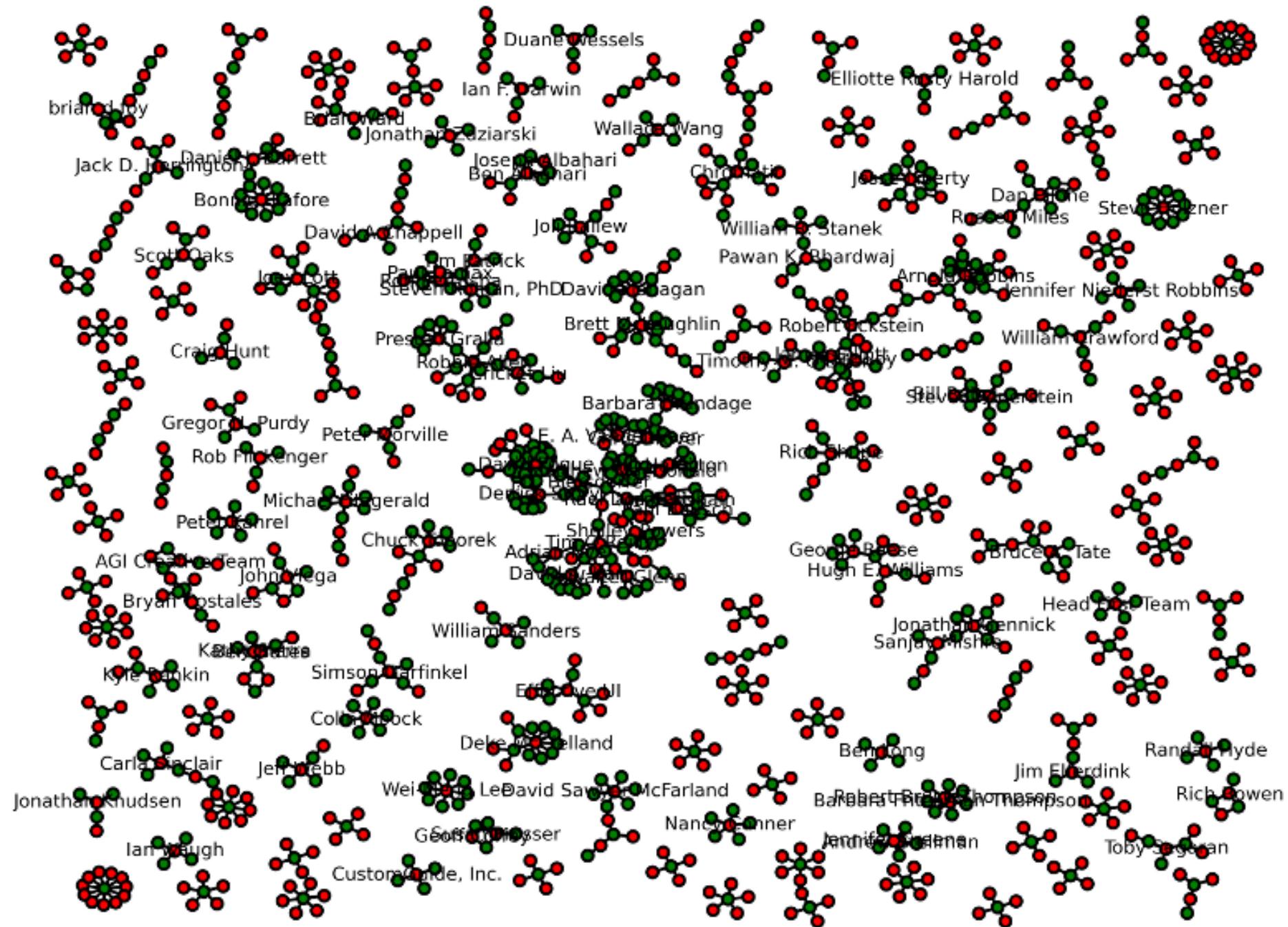
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RDFa Primer

http://www.w3.org/TR/xhtml-rdfa-primer/

W3C®

RDFa Primer

Bridging the Human and Data Webs

W3C Working Group Note 14 October 2008

This version: <http://www.w3.org/TR/2008/NOTE-xhtml-rdfa-primer-20081014/>

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Abstract

Today's web is built predominantly for human consumption. Even as machine-readable data begins to appear on the web, it is typically distributed in a separate file, with a separate format, and very limited correspondence between the human and machine versions. As a result, web browsers can provide only minimal assistance to humans in parsing and processing web data: browsers only see presentation information. We introduce RDFa, which provides a set of XHTML attributes to augment visual data with machine-readable hints. We show how to express simple and more complex datasets using RDFa, and in particular how to turn the existing human-visible text and links into machine-readable data without repeating content.

<http://www.w3.org/TR/xhtml-rdfa-primer/>

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JUNE 23, 2009

Introduction to RDFa

by MARK BIRBECK

Published in: [Browsers, HTML and XHTML, Usability](#) | [Discuss this article »](#)



RDFa ("Resource Description Framework in attributes") is having its five minutes of fame: Google is beginning to process RDFa and Microformats as it indexes websites, using the parsed data to enhance the display of search results with "rich snippets." Yahoo!, meanwhile, has been processing RDFa for about a year. With these two giants of search on the same trajectory, a new kind of web is closer than ever before.

The web is designed to be consumed by humans, and much of the rich, useful information our websites contain, is inaccessible to machines. People can cope with all sorts of variations in layout, spelling, capitalization, color, position, and so on, and still absorb the intended meaning from the page. Machines, on the other hand, need some help.

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Topics

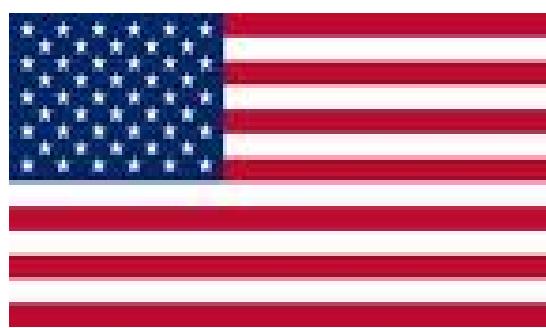
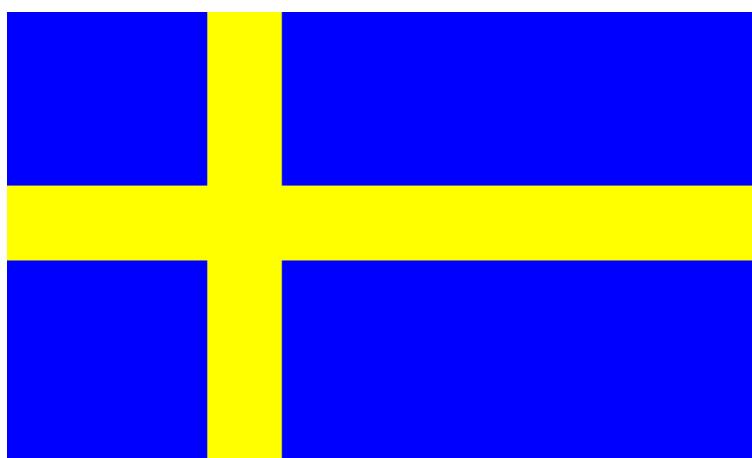
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Snapshot

In part one of a two-part primer on RDFa, learn how semantic features normally confined to the head of an HTML document can be used to add semantic richness to the elements of the body. Mark Birbeck shows us how.

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<http://www.alistapart.com/articles/introduction-to-rdfa/>



Our new social contract cannot be forged in an exclusive club. New models will be hammered out in many forums, tested in OPACs and search engines, shaped and reshaped by many hands. They will differ from the one we are used to--they must, to satisfy the need for change.

Robert Wolven. In Search of a new model. netConnect,
01/15/2008.

Managers

- What unique materials do you have in your library that others might like to link to?
- Where has the web been? Where is it likely to go?
- Take some chances with your developers, and experimental ideas.

Developers

- Think about your resources and their identifiers.
- Link to machine readable representations in your HTML.
- RDFa / HTML5
- Enrich your data with links
- Build useful apps!

Researchers

- What algorithms can we use for linking our data?
- How can publishers find out when their data is being linked to?
- What vocabularies are being used?
- What resources are being described?

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Web 3.0

by Kate Ray 2 months ago

tions, nothing else... a piece of information is really defined only by what it's related to, and how it's related. There really is little else to meaning. The structure is everything.

- Tim Berners-Lee, *Weaving the Web*

web 3.0
a doc by kate ray

This is the promise of the Semantic Web - it will improve all the areas of your life where you currently use syllogisms. Which is to say, almost nowhere.

- Clay Shirky, *The Semantic Web, Syllogism, and Worldview*

14:25

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A story about the Semantic Web

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