

# Laptops and Libraries: Decentralized Access to Explanatory Resources

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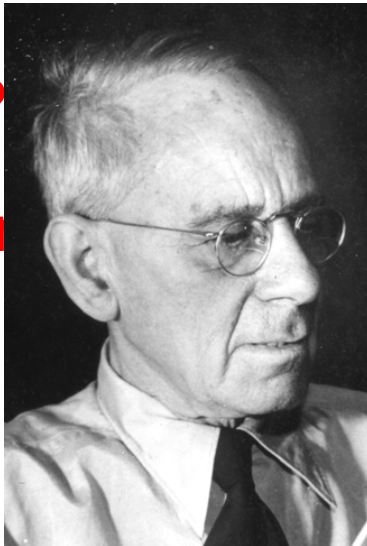
## ***Some ideas about learning. . . .***

1. Understanding requires knowing the context
2. Best place to read is inside library with reference works
3. Using Internet resources should be like using a library reference collection – and as easy and as reliable
4. Design: Find the context of any museum object, document, or performance: What is related to it in what it is, where it came from, when it originated, and who is associated with it?
5. WHAT, WHERE, WHEN, and WHO (“4W”) as a structure
6. Make better use of *existing* descriptive metadata
7. Re-design reference library for online environment

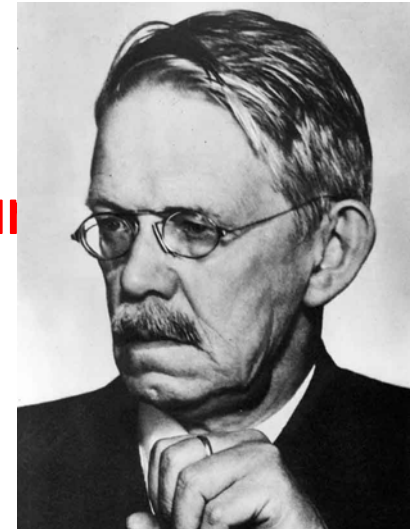
**Emanuel Goldberg**, b. Moscow, 1881; son of **Grigorii Goldberg**; Univ. of Moscow, 1900-04; Ph.D w. **Robert Luther**, Leipzig Univ., 1906; Assistant, **Adolf Miethe**, TU Charlottenburg, 1906-07; Prof, Akad. f. graphische Künste, Leipzig, 1907-17; ICA, Zeiss Ikon, Dresden, 1917-1933; Kinamo cine camera, 1921; microdots, 1925; search engine, 1927; Contax 35 mm camera 1922; kidnapped by Nazi SA; refugee in Paris, 1933-37; Laboratory, Palestine, Israel, 1937; d. 1970.

WHO?

Click a name to search for

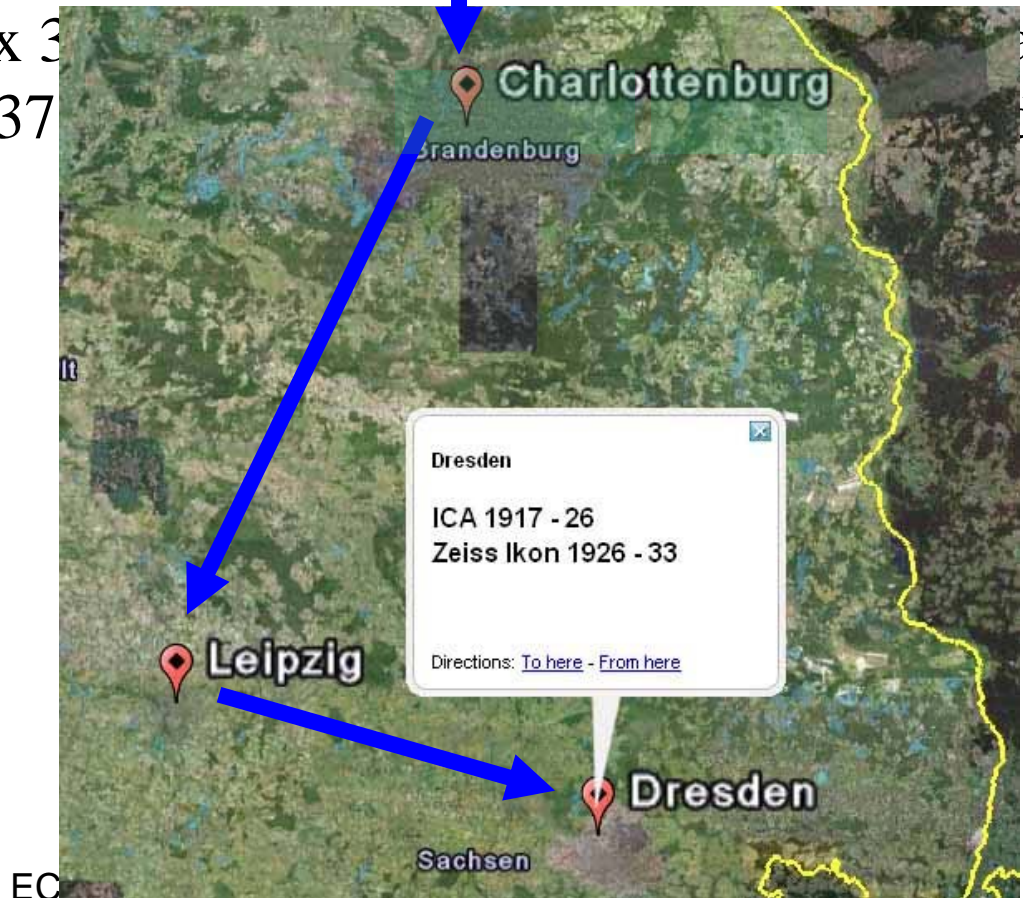


resources



**Emanuel Goldberg**, b. Moscow, 1881; son of Grigorii Goldberg; Univ. of Moscow, 1900-04; Ph.D w. Robert Luther, Leipzig Univ., 1906; Assistant, Adolf Miethe, TU Charlottenburg, 1906-07; Prof, Akad. f. graphische Künste, Leipzig, 1907-17; ICA, Zeiss Ikon, Dresden, 1917-1933; Kinamo cine camera, 1921; microdots, 1925; search engine, 1927; Contax 3 SA; refugee in Paris, 1933-37; 1970.

**WHERE?**



**Emanuel Goldberg**, b. Moscow, 1881; son of Grigorii Goldberg; Univ. of Moscow, 1900-04; Ph.D w. Robert Luther, Leipzig Univ., 1906; Assistant, Adolf Miethe, TU Charlottenburg, 1906-07; Prof, Akad. f. graphische Künste, Leipzig, 1907-17; ICA, Zeiss Ikon,


the camera, 1921; microdots, 1925; film camera 1932; kidnapped by Nazi

**Filmedich selbst!**

*Ica*  
*Kinamo*

*mit Federwerk!*

*Contax*  
the truly  
universal camera



THEATRICAL

**Zeiss Ikon A.-G. und Dr. Emanuel Goldberg in Dresden**  
**Vorrichtung zum Aussuchen statistischer und buchhalterischer Angaben**  
Patentiert im Deutschen Reiche vom 13. April 1927 ab

findung bezieht sich auf eine Vor-

Als Strahlungsanzeiger kann z



Preisliste kostenlos!

Context and relationships: Ireland and Irish Studies – Project diagram.

Any word, name, document, or event

Connect it with its context – and other resources.



Facet	Vocabulary	Displays
WHAT	Thesaurus e.g. LCSH	Cross- references
WHERE	Gazetteer	Map
WHEN	Period directory	Timeline
WHO	Biograph. dict. e.g. <i>Who's Who</i>	Personal relations

Any catalog: Archives,  
Libraries, Museums, TV,  
Publishers

Any resource:  
Audio, Images, Texts,  
Numeric data, Objects,  
Virtual reality, Webpages

In a paper environment, reading inside a library is the best place to learn. It is well designed to explain the context!

How do we move this situation into an internet environment?

### **Text**

with a interesting details.

Who was she?

Where is that?

What is this?

What else was happening?



Reader

### **Library resources**

Encyclopedias

Atlases, place name

Biographical dictionaries

Bibliographies

Library catalog

Statistical series

etc., etc. . . . .

## The “9 to 5” problem

The reference library and reference library is open from  
9:00 a.m. to 5:00 p.m. (09:00 – 17:00)

Students are writing papers at home on laptops from  
9:00 p.m. to 5:00 a.m. (21:00 – 05:00)

What is wrong with this situation?

What can librarians do about it?

Comment: The online environment is not visible.  
One cannot see important structures.

Enter Query Text

Insert / block text

Define facet

Choose one or more:

- Topic
- Place
- People
- Time Period
- Source



Contextual search options - topic

- Library of Congress
- MELVYL
- JSTOR
- Wikipedia

Contextual search options - place

- Alexander Digital Library
- Irish Gazetteer
- US Geospatial Name Search
- Wikipedia

Contextual search options - people

- Bibliography of Irish People
- Wikipedia
- Library of Congress

Contextual Search Result Menu

Library of congress Record List

Display of search result

Save Search Path

Save Annotation w/ Link

Annotate Original Record

Initial sketch for “Context Finding / Building” interface.

Ranked lists of suggested resources for each facet chosen

Save search path

Save link & notes as “stand-off” markup.

Save link & notes as embedded mark-up.

Building the functionality of a reference *collection*.

1. **Context finder:** Search support from text to reference works.
2. **Context builder:** Make, retain notes and links to reference works.
3. **Context provider:** Make reference works better by adding two-way links, e.g. text has links to place name list AND place name list has links to texts.

Demos at <http://metadata.berkeley.edu/demos/>

# Scanned text

# Named Entities

The Irish Review    March ▾    1911 ▾    Find names in current page

## IRISH BOOKS

quarrel of Protestant and Catholic, which so far has prevented Ireland from realizing either its political or literary ideals. What a difference it would have made had some clergyman or parish priest transformed an Irish country town or village—Westport or Doneraile—into an Irish Concord! A thinker who would have unsealed the fountains of thought and claimed the full privileges of a human being on the soil of Ireland would have brought it far further toward the realization of its spiritual and political unity than ever did Parnell. But Ireland's hour was not yet come, and just as, after Davis, politics became estranged from those interests which ensure the support of the wise, so literature estranged itself from those common interests which make it genuinely national. There was, first, the well-meaning Ferguson, sometimes really exalted in his personal poems and adaptations from the Irish, but whose more ambitious labours smell a little too much of the Record Office. There was also the attenuated Wordsworthianism of Aubrey De Vere. Lastly there has been the considerable literary movement initiated chiefly by Mr. Standish O'Grady, styled variously the "Irish Literary Revival," the "Celtic Renaissance," &c., in which the chief factor has undoubtedly been the peculiar genius of Mr. W. B. Yeats.

<b>What</b>
<b>Where</b>
Ireland ▶ <a href="#">Links to more info</a>
Concord ▶ <a href="#">Links to more info</a>
Westport ▶ <a href="#">Links to more info</a>
<b>When</b>
<b>Who</b>
Aubrey De Vere ▶ <a href="#">Links to more info</a>
W. B. Yeats ▶ <a href="#">Links to more info</a>
Standish O'Grady ▶ <a href="#">Links to more info</a>

has undoubtedly been the peculiar genius of **Mr. W. B. Yeats**. The meeting in modern Ireland of the modern with the ancient spirit is an important event, not only in the literary but in the spiritual history of Ireland, and perhaps the full significance of the work of **Mr. Yeats** and Æ will only be apparent eventually. **Mr. Yeats** in particular understands the ancient Celtic spirit as Ronsard understood Græco-Roman antiquity, and is imbued with it in much the same way; and just as it was only when the modern world had learned to understand the ancient classics that it began to strike out in every direction on lines of its own, so perhaps the spirit of Ireland, through its self-recovery in this last poet of the line of Senchan Torpeist, is being made ready for new beginnings.

Meanwhile if we ask whether the voluminous literary

27

What

Where

Ireland

▶ [Links to more info](#)

Concord

▶ [Links to more info](#)

Westport

▶ [Links to more info](#)

When

Who

Aubrey De Vere

▶ [Links to more info](#)

**W. B. Yeats**

▶ [Links to more info](#)

Standish O'Grady

▶ [Links to more info](#)

Cursor over a name highlights every mention of that name in the text.

of Mr. W. B. Yeats.  
modern with the  
y in the literary but  
perhaps the full  
and Æ will only be  
ular understands the  
ood Græco-Roman  
the same way; and  
orld had learned to  
an to strike out in  
perhaps the spirit of  
ast poet of the line  
r new beginnings.  
voluminous literary

Find names in current page

What

Where

When

Who

Aubrey De Vere

▶ [Links to more info](#)

**W. B. Yeats**

▼ [Links to more info](#)

[Ask about Ireland](#)  
[Irish Resources in the Humanities](#)  
[CELT \(Corpus of Electronic Texts\)](#)  
[COPAC](#)  
[Google Books](#)  
[Google Scholar](#)  
[Wikipedia](#)

Standish O'Grady

▶ [Links to more info](#)

Kathleen ni Houlihan

▶ [Links to more info](#)

# Ask about Ireland

TOPICS

PLACES

STUDENT ZONE

RESOURCES

INFORMATION

HOME

you are here >> [home](#) > [media bank](#)

Media Bank - Browse Search Results - 31 Items

There were 31 results from your search for:

**Search Terms**

W. B. Yeats

Show results with thumbnails

Restrict search results to following topics or places:

**Topics**

Architecture  
Big Houses of Ireland  
Built Heritage 1700 - Today  
Carlow

To select more than one option, hold down 'ctrl' or 'cmd' and click

**Places**

Carlow County Library  
Clare County Library  
Cork Archives Institute  
Cork City Library

To select more than one option, hold down 'ctrl' or 'cmd' and click

Page 1 - Showing Results 1 To 24



W.B. Yeats Signed Photograph



Yeats Portrait (Copy)



Jack B. Yeats by Thomas MacGreevy



Yeats Portrait



Yeats' Grave

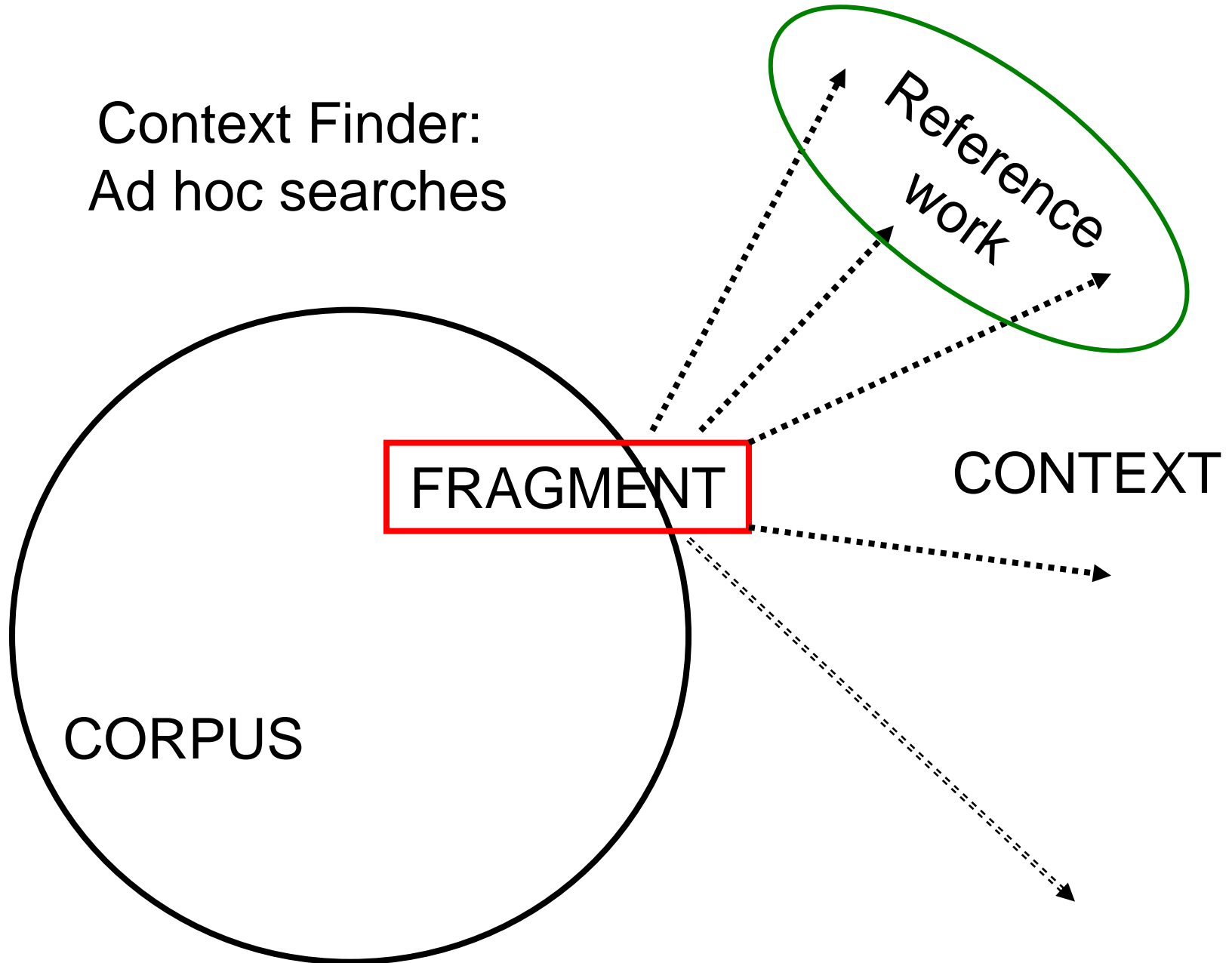


De Valera going to Yeats' funeral.



Named entities are linked to specific resources or dynamic searches over relevant databases.

Context Finder:  
Ad hoc searches

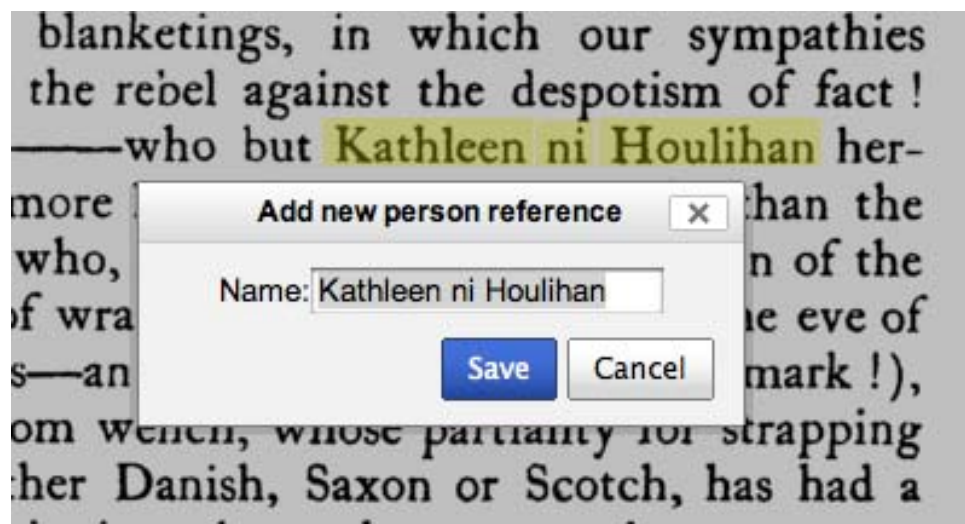


Building the functionality of a reference *collection*.

1. **Context finder:** Search support from text to reference works.
2. **Context builder:** Make, retain notes and links to reference works.
3. **Context provider:** Make reference works better by adding two-way links, e.g. text has links to place name list AND place name list has links to texts.

andlords in any but his own few words of  
blanketings, in which our sympathies  
the rebel against the despotism of fact !  
—who but **Kathleen ni Houlihan** her  
more like what she is taken for the  
who, in the addled masculine brain  
of wraith materializing itself on the eve of  
s—an old woman (God save the mark !),  
om wench whose partiality for strapping

- Add person reference
- Add place reference
- Add event reference



Named entities not detected automatically can  
be added manually.

The French royal succession was granted to the heirs of King **Henry V** of England. In 1400, **Henry V** died leaving an infant son as heir to both the English and French thrones.

By the time of the fall of France, the French royal succession was granted to the heirs of King **Henry V** of England. In 1400, **Henry V** died leaving an infant son as heir to both the English and French thrones.

WorldCat Identities

http://worldcat.org/identities/find?fullName=Henry+V

WorldCat® Identities Beta

Matches for 'v, henry'

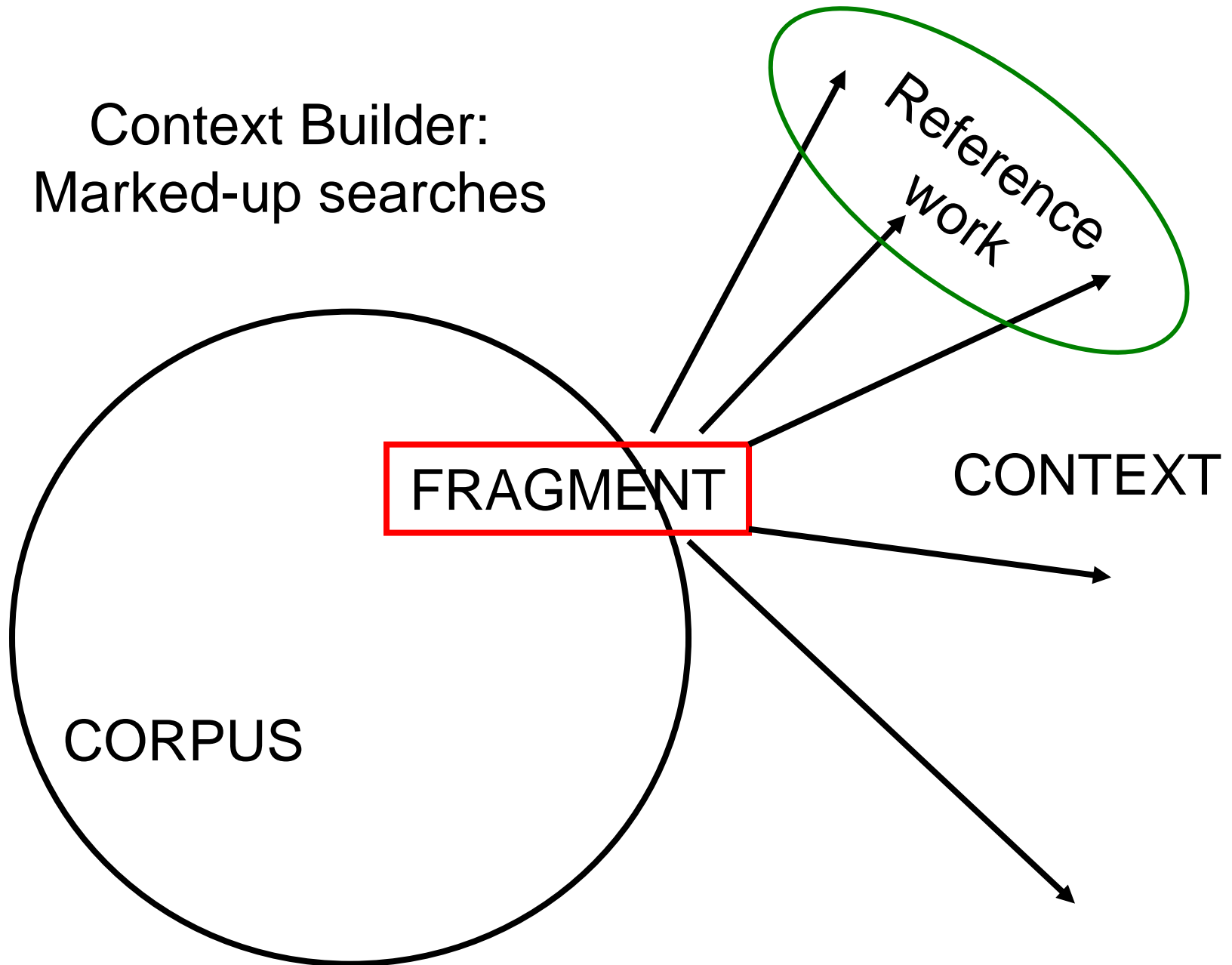
1. Henry V (King of England) published: 1926
2. Henry. V Emperor of the Holy Roman Empire (1086-1125)
3. **Henry V King of England 1387-1422**
4. Harrisse, Henry 1829-1910
5. Stanbery, V. B. (Van Buren) b. 1889
6. Henry V Holy Roman Emperor 1086-1125
7. Henry V Emperor of the Holy Roman Empire 1086-1125

Who

Bertrand de Poulengy	edit
<a href="#">Wikipedia</a> <a href="#">WorldCat Identities</a>	
Charles	edit
<a href="#">Wikipedia</a> <a href="#">WorldCat Identities</a>	
Charles VII	edit
<a href="#">Wikipedia</a> <a href="#">WorldCat Identities</a>	
Durand Laxart	edit
<a href="#">Wikipedia</a> <a href="#">WorldCat Identities</a>	
<b>Henry V</b>	edit
<a href="#">Wikipedia</a> <a href="#">WorldCat Identities</a>	

Initially, named entities are linked to keyword searches at the appropriate name authorities and metadata services. Here we see a number of possible candidates for “Henry V”.

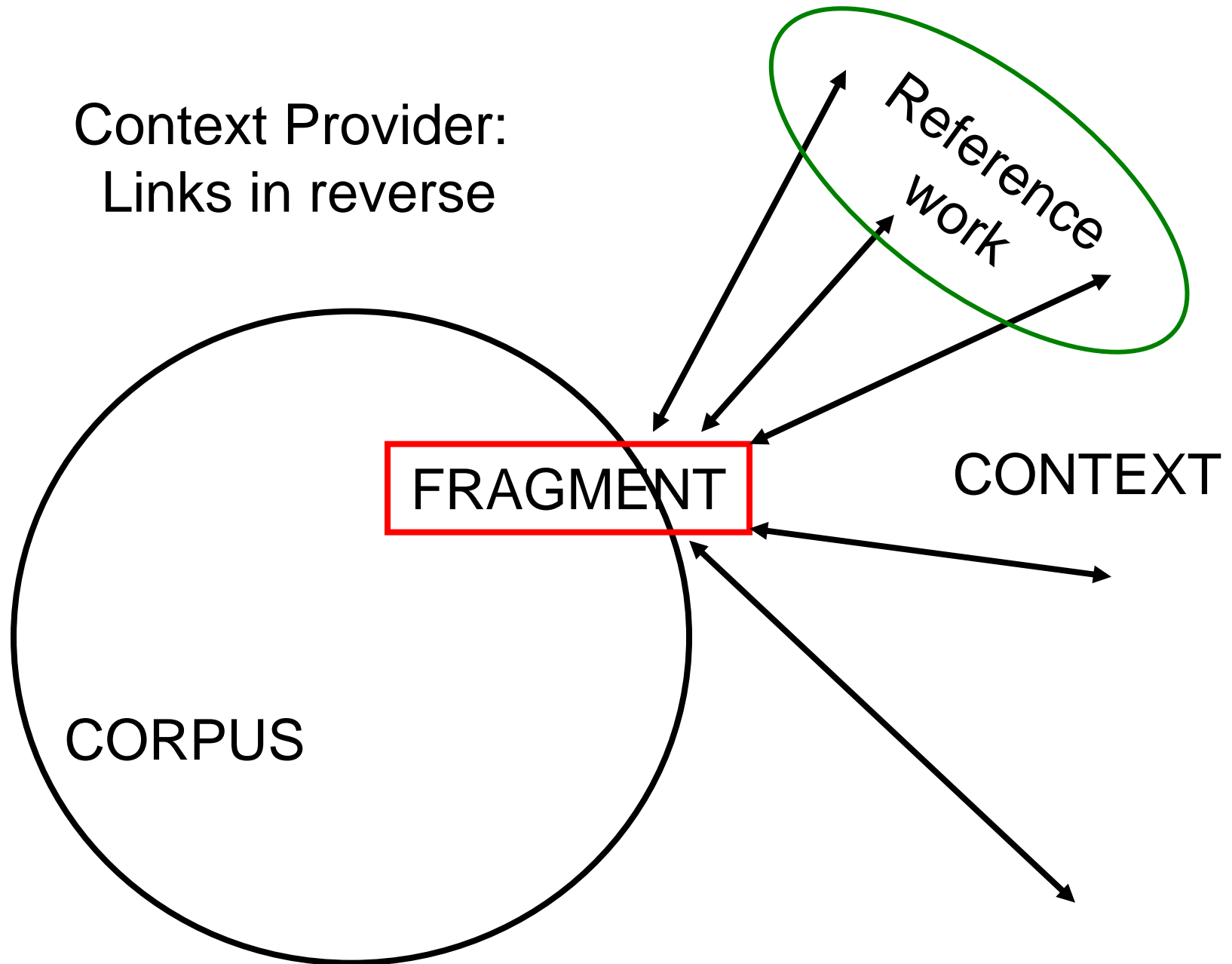
Context Builder:  
Marked-up searches



## Building the functionality of a reference *collection*.

1. **Context finder:** Search support from text to reference works.
2. **Context builder:** Making, retaining notes / links to reference works.
3. **Context provider:** Enriching reference works by adding reverse links, e.g. place name gazetteer mentions where a place is mentioned in texts.

Context Provider:  
Links in reverse



Paper-based reference collection: Codex determines structure and use.



<i>Reference Genre</i>	<i>Vocabulary</i>	<i>Displays</i>	<i>Facet</i>
Encyclopedia	Topics	Cross-references	WHAT
Atlas, place list	Places	Maps	WHERE
Chronology	Time	Timelines	WHEN
Biogr. Dictionary	Persons	Relationships	WHO

Search  
interest

Reversed in a digital environment: Metadata forms infrastructure.



Search  
interest

<i>Facet</i>	<i>Vocabulary</i>	<i>Displays</i>	<i>Reference Genre</i>
WHAT	Topics	Cross-references	Encyclopedia
WHERE	Places	Maps	Atlas, place list
WHEN	Periods	Timeline	Chronology
WHO	Persons	Relationships	Biogr.dictionary

Better, build a union index, so you know where too look!

<http://metadata.berkeley.edu/demos/>

Importance of inverting the relationship between the part and the whole:

- *Indexes* are created by inversion
- *Union indexes*: Tell you which reference work mentions your query, like the *Science Citation Index*. . . as in Google.

Use *dynamic links* to the latest version of the best resources; and, for vocabulary: *Search term recommender systems*

A report on work by several people: Aitao Chen, Fredric Gey, Ray Larson, Dan Melia, Barry Pateman, Vivien Petras, Ryan Shaw, and others.

Work supported by two U.S. federal government agencies: The Institute of Museum and Library Services and the National Endowment for the Humanities.

Three projects:

- Support for the learner (2004-06) [ecai.org/imls2004](http://ecai.org/imls2004)
- Biographical texts (2006-09) [ecai.org/imls2006](http://ecai.org/imls2006)
- Irish Studies (2007-09) [ecai.org/neh2007](http://ecai.org/neh2007)

Demos at <http://metadata.berkeley.edu/demos/>