

A Virtual International Authority File



Presentation by

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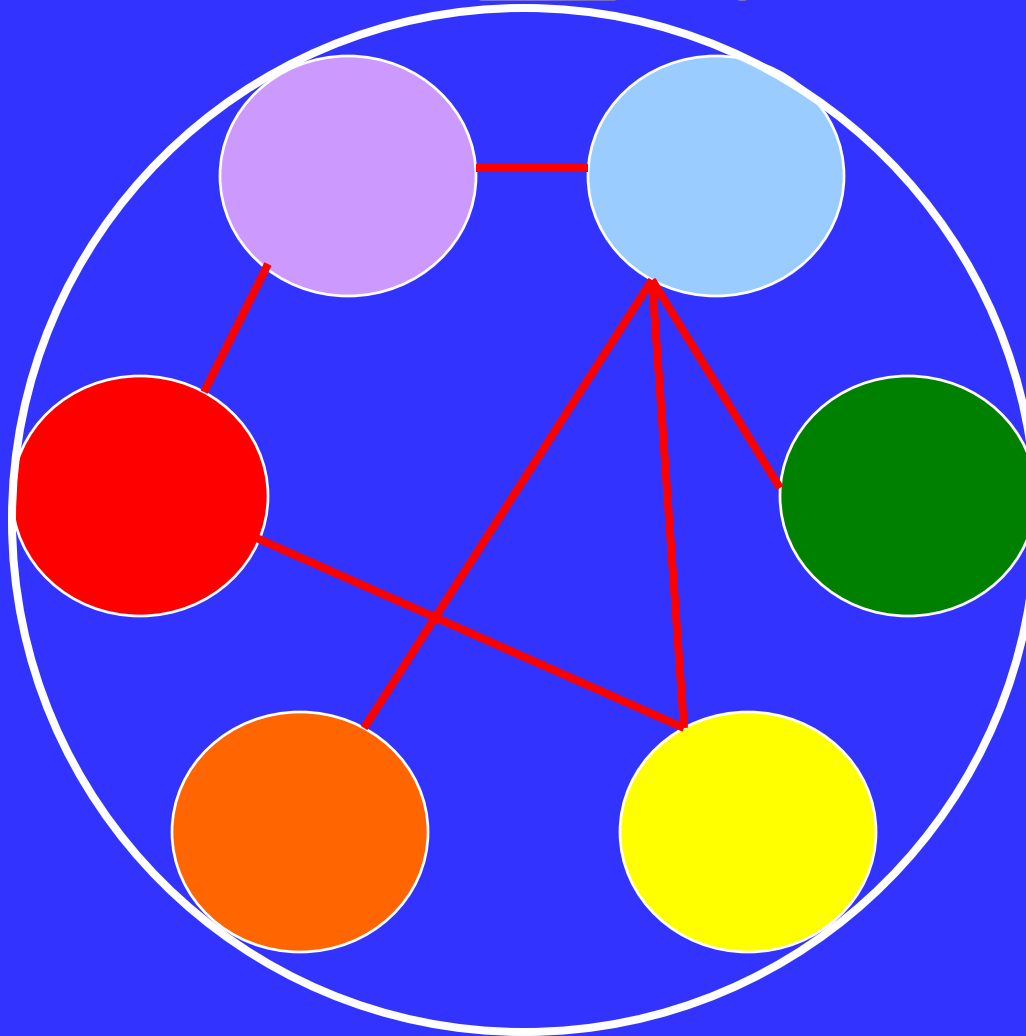
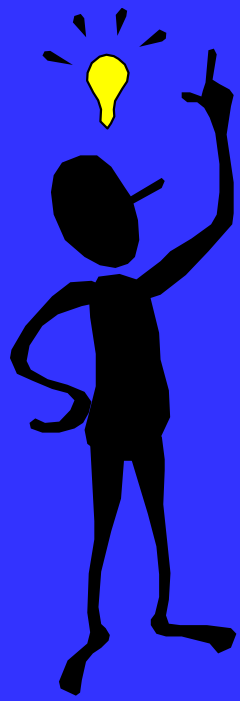
Objectives

- Facilitate sharing to reduce cataloguing costs to libraries, museums, archives, rights management agencies, etc.
- Simplify creation and maintenance of authority records internationally
- Enable users to access information in the language, script, form they prefer

Authority control virtues

- "Precision" in searching
- Syndetic structure of references to help navigate (the variant forms of name/title/subject/etc.)
- Displays to collocate works
- Links to forms used in particular resources
- Bring library catalogues into the mix of tools available on the Web

Virtual International Authority File (VIAF)



IFLA UBC authority principles

- Each country responsible for authority headings for its own personal and corporate authors
- National authority records available for everyone to use
- Same form and structure used worldwide

New view of UBC

- User perspective - to display script/language(s) of one's own country
- Bibliographic agencies still responsible for control in their own countries (or region/cataloguing rules/etc.)
- Link forms established in "national" or "regional" authority files to create a virtual international authority file

Same Entity/Variant Scripts

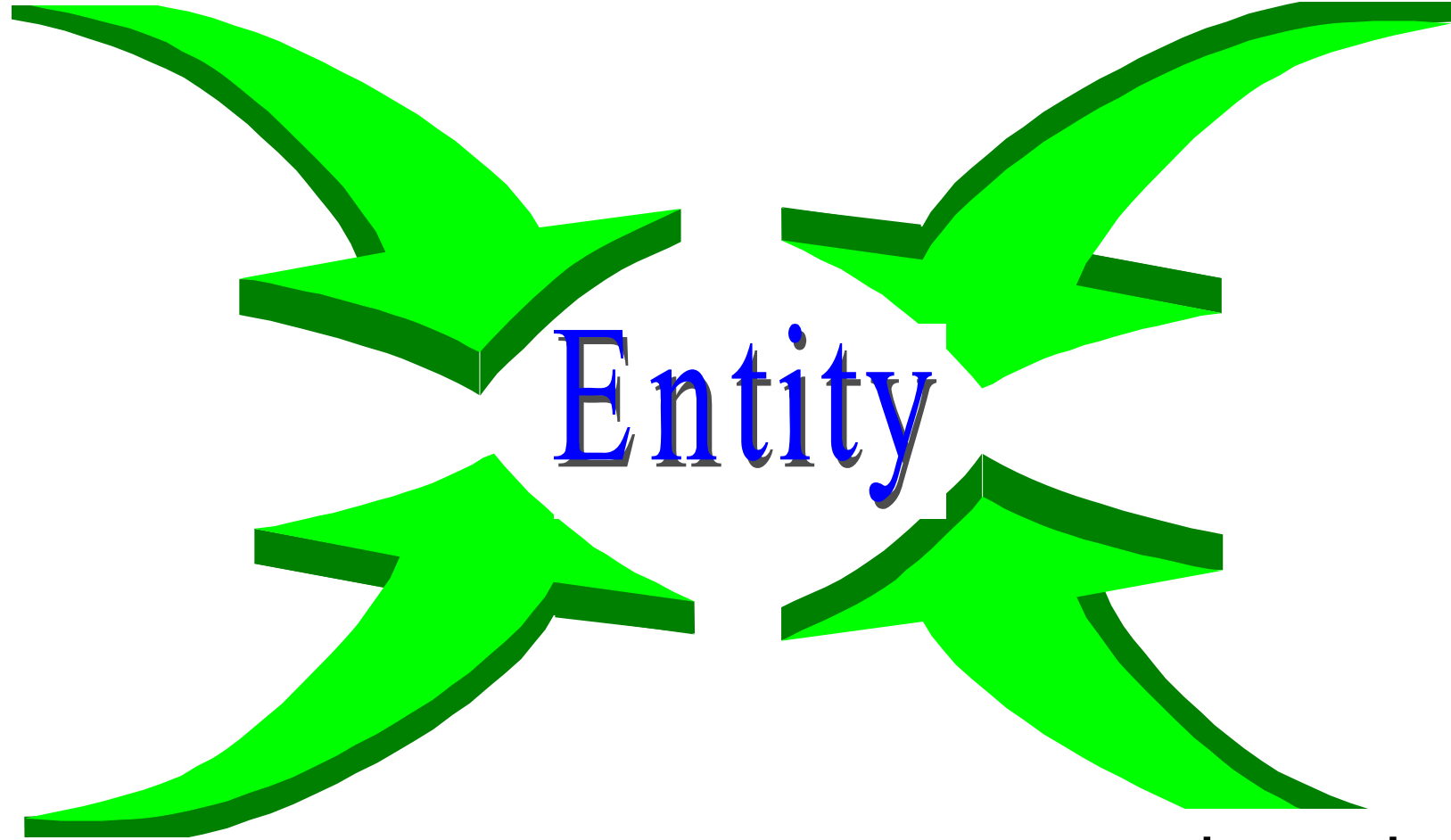
日本語

Japanese

Entity

ЯПОНСКИЙ

japanisch



Entities

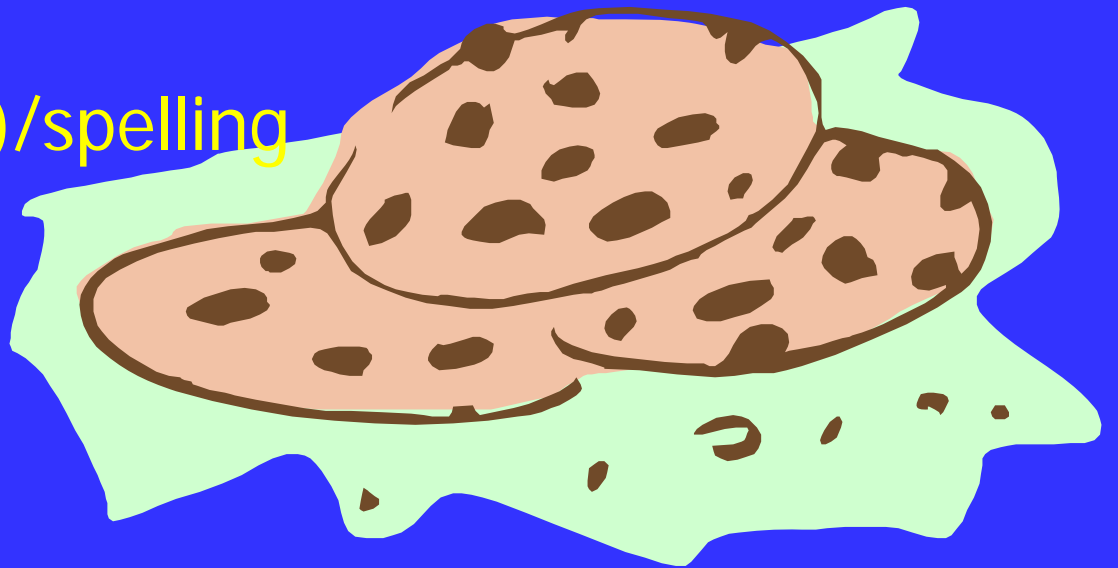
- **Crosswalks and Mappings - not always 1-1**
 - **Examples of differences among cataloguing rules**
 - **Ships**
 - **Events**
 - **Meetings of corporate bodies**
 - **Undifferentiated names**

Programs to facilitate future authority work

- Automatic check of heading against existing local authority file
- If not found, automatic check against “virtual” international authority file
- Display found matches for editing or reference
- Insert authorized forms into local authority record for future link

Switching for displays

- ◆ Library default
- ◆ User-selected preferences
 - Client set-up, "cookies," or future method
 - Language
 - Script
 - Culture (country)/spelling
 - Labor vs. Labour



Scenario 1 – Found locally

- Original cataloguing with match found for same entity in local authority file

Scenario 1

Create bibliographic record

100 1 ‡a Tchaikovsky, Peter I

245 ‡a Piano concerto

Check local authority file



MARC System History

status type enc/l

Leader c z n

005: 19991202073933.0

008 790816 n | _ a c a n n a a b n _____ | a _ a a a _ _ _

Tag	I1	I2	Subfield Data
→ 010			‡a n 79072979 ‡z no 98020301
035			‡a (0CoLC)oca00305725
040			‡a DLC ‡b eng ‡c DLC ‡d DLC ‡d MoSW-Mu ‡d DLC ‡d PPi-MA ‡d DLC ‡d PPi-MA
100	1		‡a Tchaikovsky, Peter Ilich, ‡d 1840-1893
400	1		‡a Ciaikovsky, Piotr Ilic, ‡d 1840-1893
400	1		‡a Tschaikowsky, Peter Iljitch, ‡d 1840-1893
400	1		‡a Tchaikowsky, Peter Iljitch, ‡d 1840-1893
400	1		‡a Ciaikovsky, Pjotr Iljc, ‡d 1840-1893
400	1		‡a Cajkovskij, P. I., ‡d 1840-1893
400	1		‡a Tsjaikovsky, Peter Iljitsj, ‡d 1840-1893
400	1		‡a Czajkowski, Piotr, ‡d 1840-1893

Scenario 1

Corrects bibliographic record

100 1 ‡a Tchaikovsky, Peter Ilich, ‡ d 1840-1893

245 ‡a Piano concerto

Scenario 2 - Web launch

- Original cataloguing with no match found in local authority file
- Launches Web search of virtual international authority file
 - Assumes response times/system reliability will improve in future

Scenario 2

Create bibliographic record

100 1 ‡a Tchaikovsky, Peter I

245 ‡a Piano concerto

Not found in local authority file.
Checking VIAF.

**Your search of the Virtual International Authority File
found the following match:**

RUSMARC-record

Маркер: 00445nx 22001453 450

001: 10326

005: 20001108144619.0

100: \$a20001108arusy0103 ca

200: 1\$8rus\$7ca\$aЧайковский\$bП. И.\$f1840- 1893\$gПетр
Ильич\$4070

200: 1\$8rus\$7ba\$aChajkovskij\$bP. I.\$f1840-1893\$gPetr
I'ich\$4070

300: 0 \$aРусский композитор, ученик А.Г. Рубинштейна.

700: 1\$310327\$8rus\$7ba\$4070

810: \$aВсемирный биографический энциклопедический
словарь. - М., 1998.

801: 0\$arusb\$brnb\$c20001108

810: \$aГАК РНБ.

Scenario 2

Link authorities

100 1 Ꞇa Tchaikovsky, Peter I

Create and Link?

Yes

No



MARC System History

status type enc/l

Leader c z n

005: 19991202073933.0

008 790816 n | _ a c a n n a a b n _____ | a _ a a a _ _ _

★ Automatically creates local authority record

with link

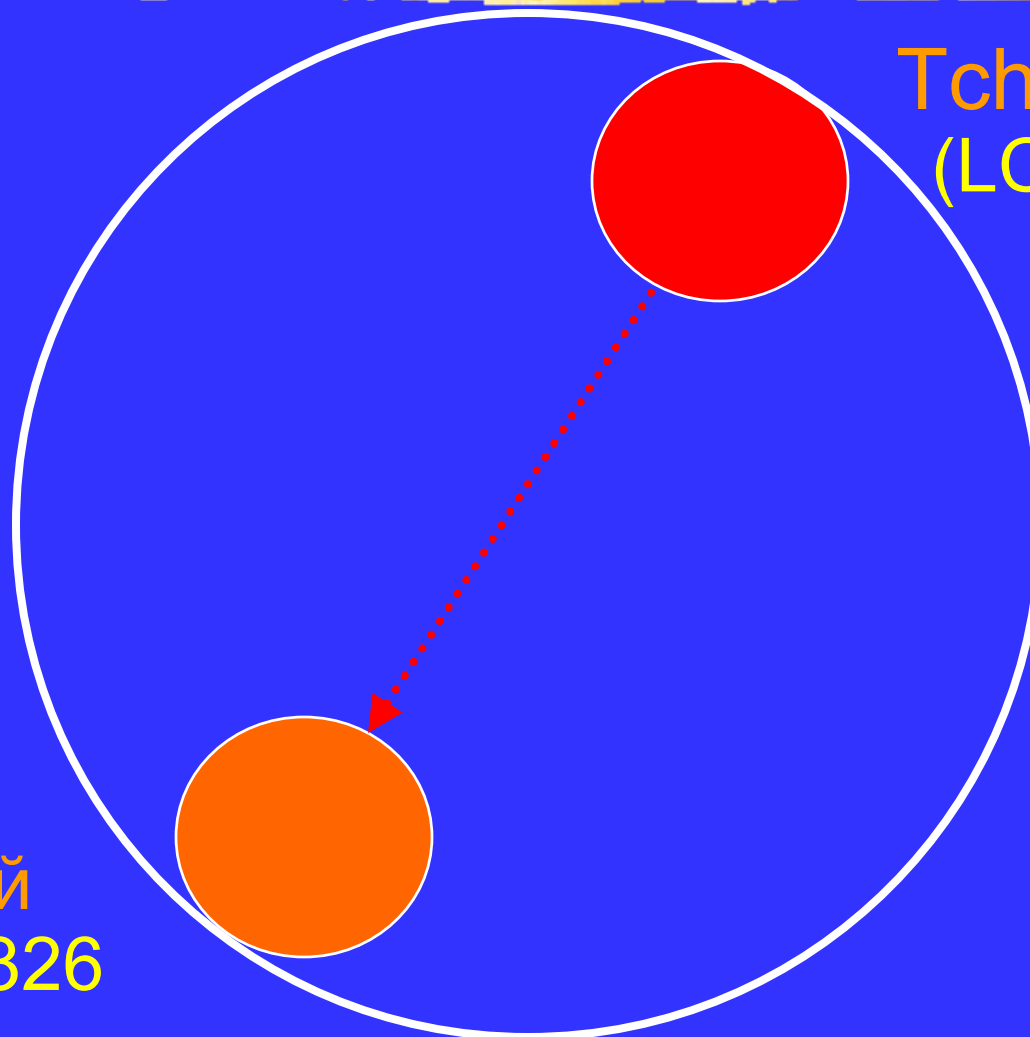
	Tag	I1	I2	Subfield Data
★	010			‡a n 79072979
★	040			‡a DLC ‡b eng
	100	1		‡a Tchaikovsky, Peter Ilich, ‡d 1840-1893
★	400	1		‡a Chajkovskii, Petr Il'ich, ‡d 1840-1893
★	400	1		‡w nna ‡a Chaikovski~i, Petr Il'ich, ‡d 1840-1893
★	670			‡a Tchaikovsky, P.I. Pianoconcerto [sic] no 1, op.23 [SR] p1988: ‡b label (Peter Ilic Ciaikovski)
★	700	1		‡a Чайковский‡b П. И.‡d 1840-1893‡q Петр Ильич ‡0 (РНБ)10326 ‡2 РНБА ‡l rus

← Cataloguer adds AACR2 form

Virtual International Authority File (VIAF)

Tchaikovsky
(LC)n79072979

Чайковский
(РНБ)10326



Scenario 2

Corrects bibliographic record

100 1 ‡a Tchaikovsky, Peter Ilich, ‡ d 1840-1893

245 ‡a Piano concerto

Local system - User view

User's cookie specifies Cyrillic/Russian preferred.

Display 700 form, building on local system's authority structure

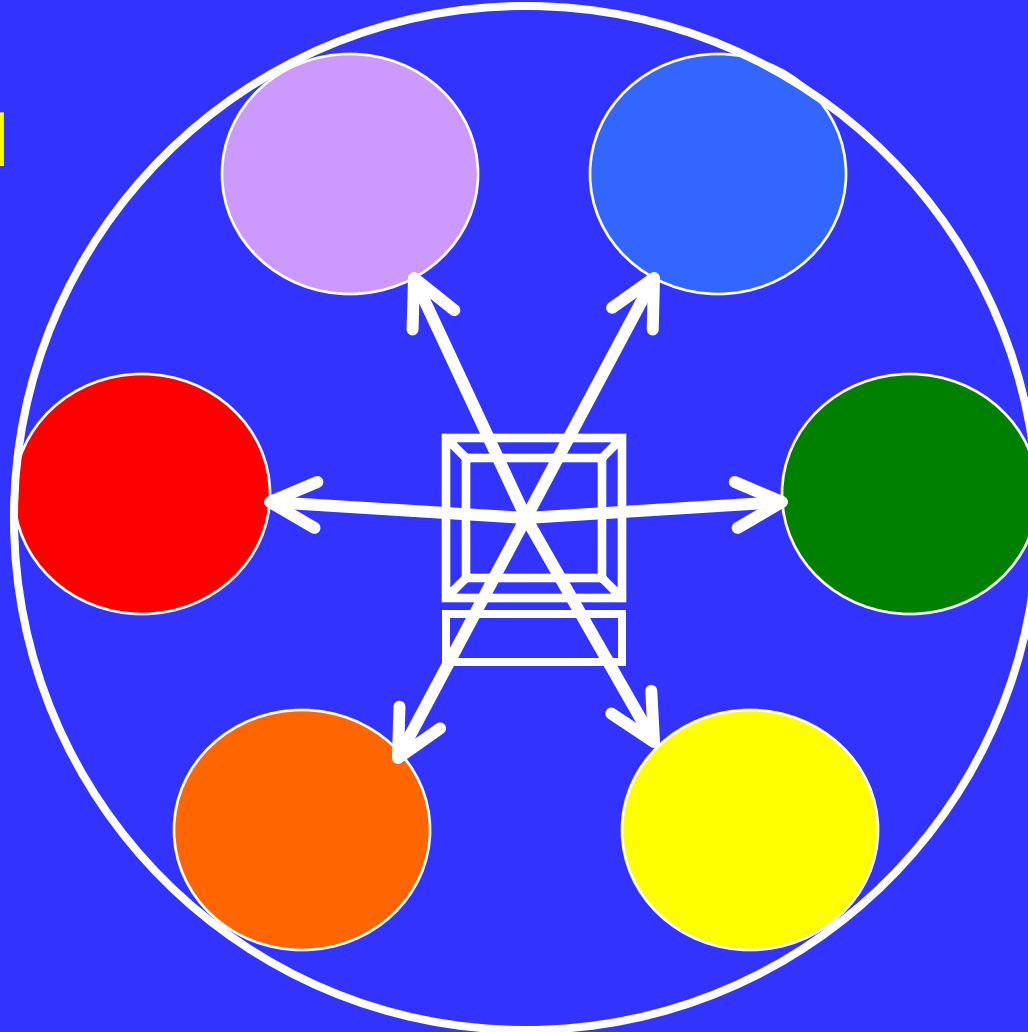
Чайковский, Петр Ильич, 1840-1893



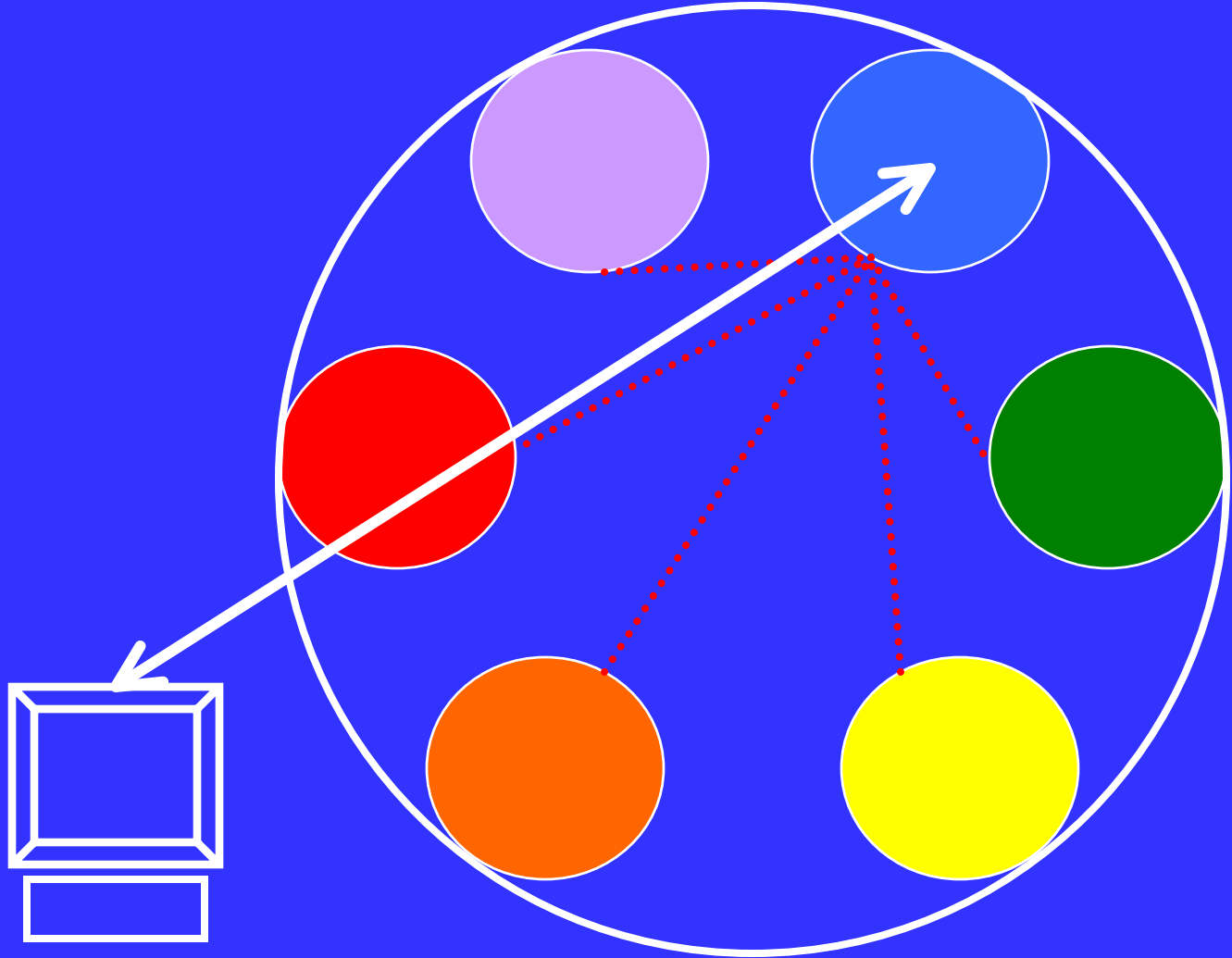
Tag	I1	I2	Subfield Data
010			⊥a n 80050515
035			⊥a (DLC)n 80050515
040			⊥a DLC ⊥c DLC ⊥d DLC ⊥d NIC
100	0		⊥a Confucius
400	0		⊥a Konfuzius
400	0		⊥a K'ung Fu-tzu
400	0		⊥a Kongzi
400	1		⊥a Kong, Qiu
400	0		⊥a K'ung-tzu
400	1		⊥a K'ung, Ch'iu
400	0		⊥a K'oshi
400	0		⊥a Konfu ^ˆ t ^ˆ si ^ˆ i
400	0		⊥a Kongja
400	0		⊥a Kung Fu
400	1		⊥a K'ung, Fu-tzu
400	0		⊥a Confucio
400	0		⊥a Конфуций
400	0		⊥a 孔夫子
400	0		⊥a 孔子
400	0		⊥a 孔丘
400	0		⊥a こうし
400	0		⊥a コウシ
400	0		⊥a 공자
670			⊥a Jakobs, P. M. Kritik an Lin Piao und Konfuzius, c1983: ⊥b t.p. (Konfuzius)
670			⊥a Konfu ^ˆ t ^ˆ si ^ˆ i, 1993: ⊥b t.p. verso (551-479 B.C.)
670			⊥a His Gespr ^ˆ ache (Lun y ^ˆ u), 1910: ⊥b t.p. (Kungfutse)
670			⊥a Web connection ⊥u http://www.friesian.com/confuci.htm
700	0		⊥a 孔夫子 ⊥5 HKCAN

Distributed - independent AF's with Z39.50 access

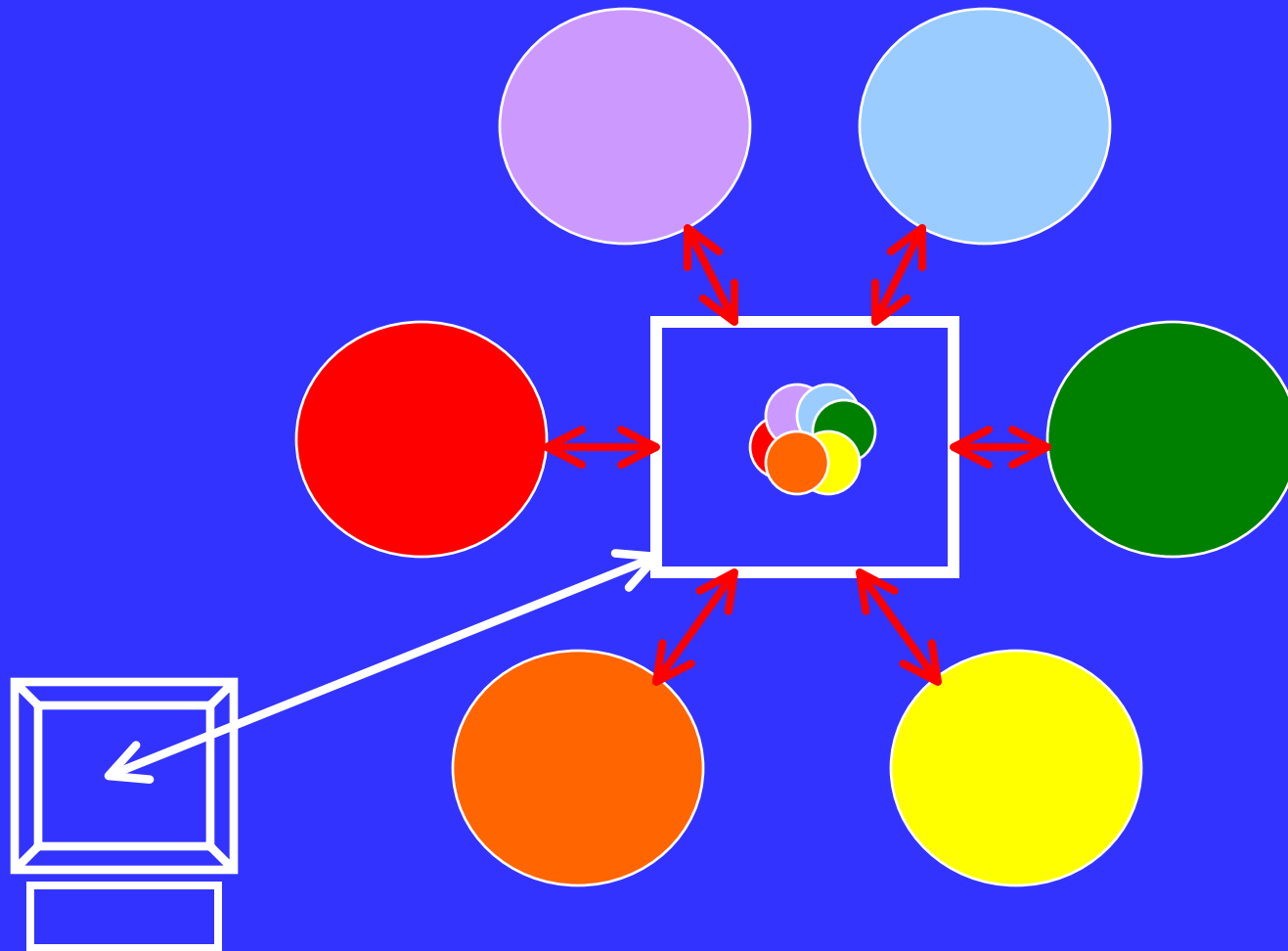
SEARCH



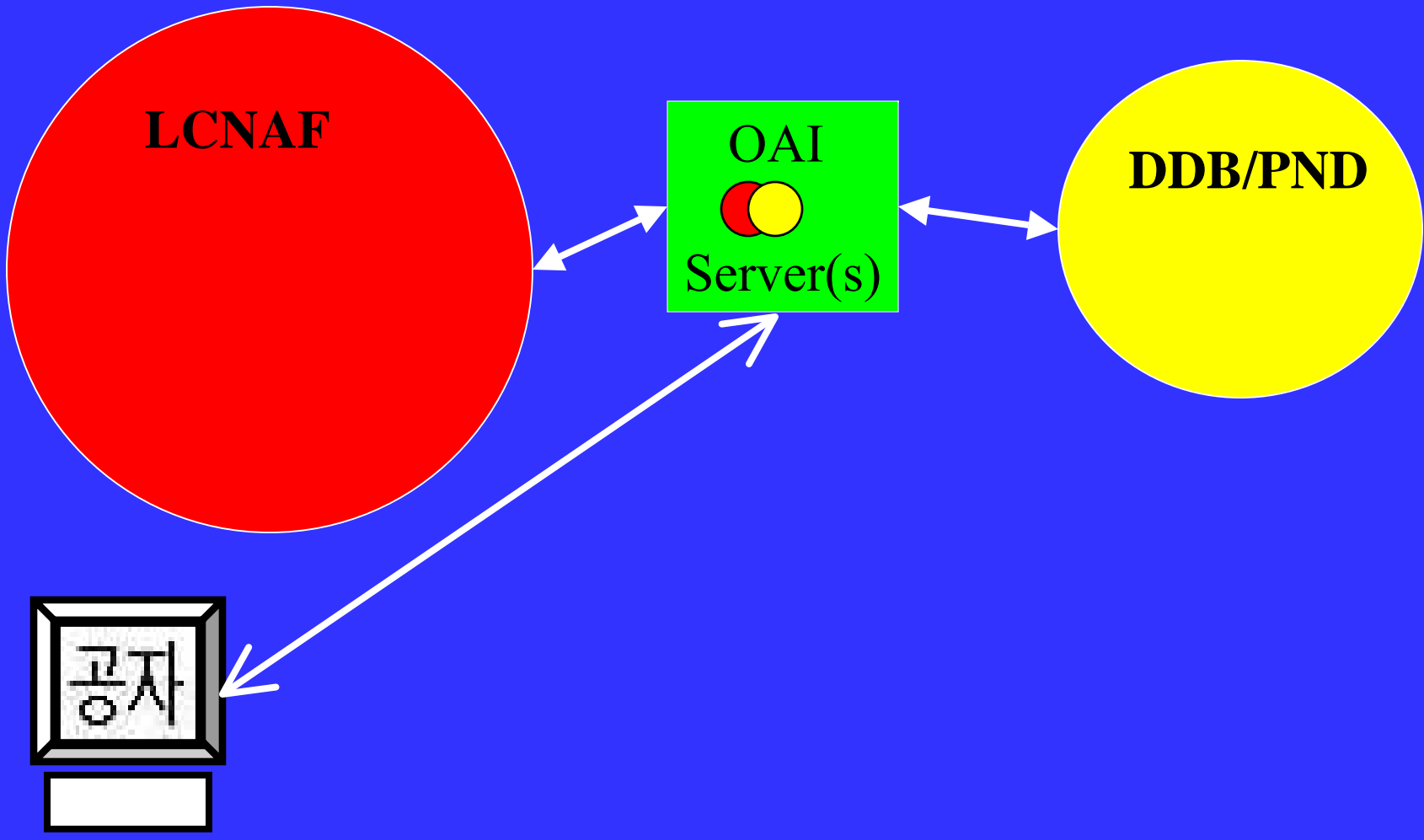
Central Link



Centralized - Union Authority File (OAI Model)



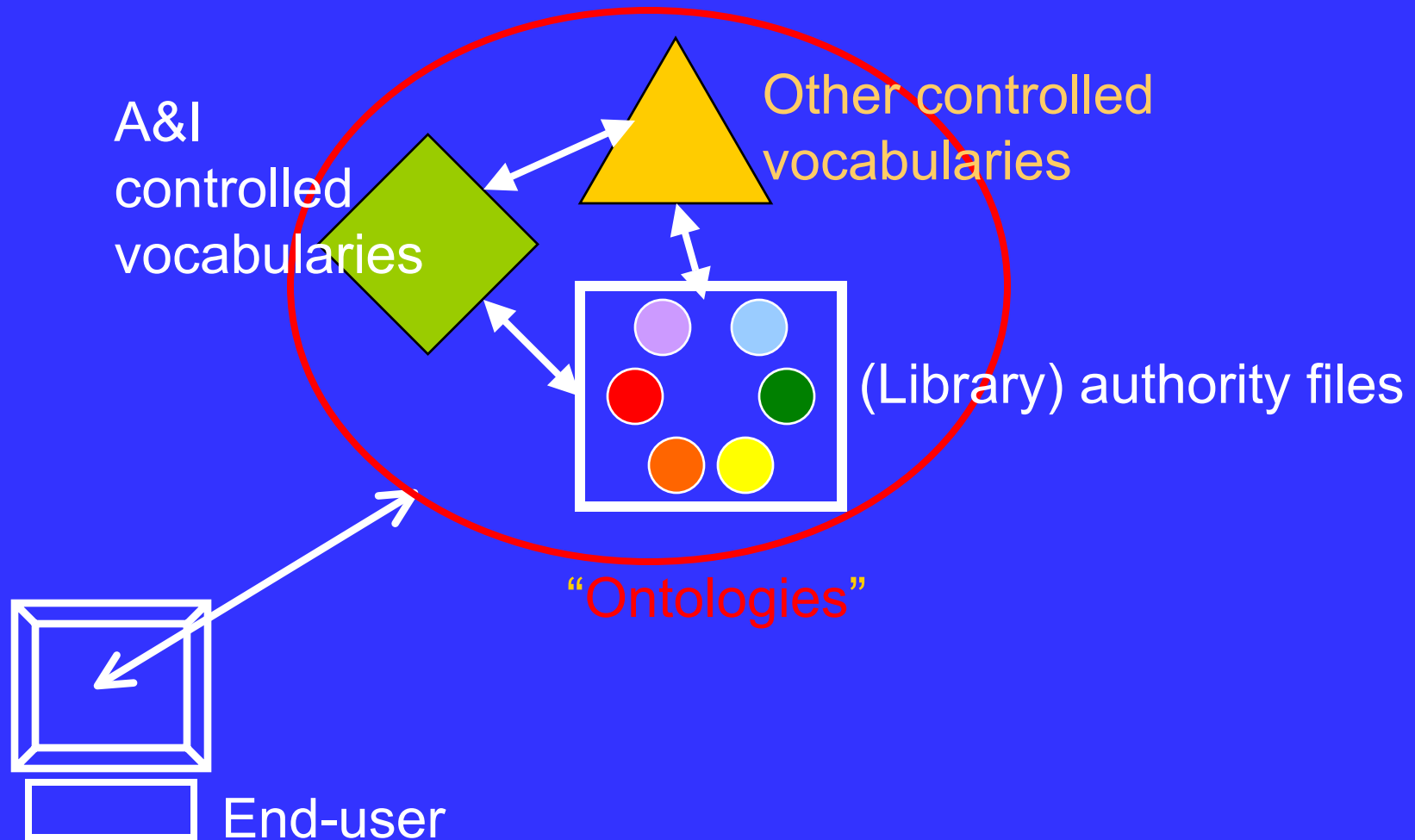
VIAF Proof of Concept DDB/LC/OCLC



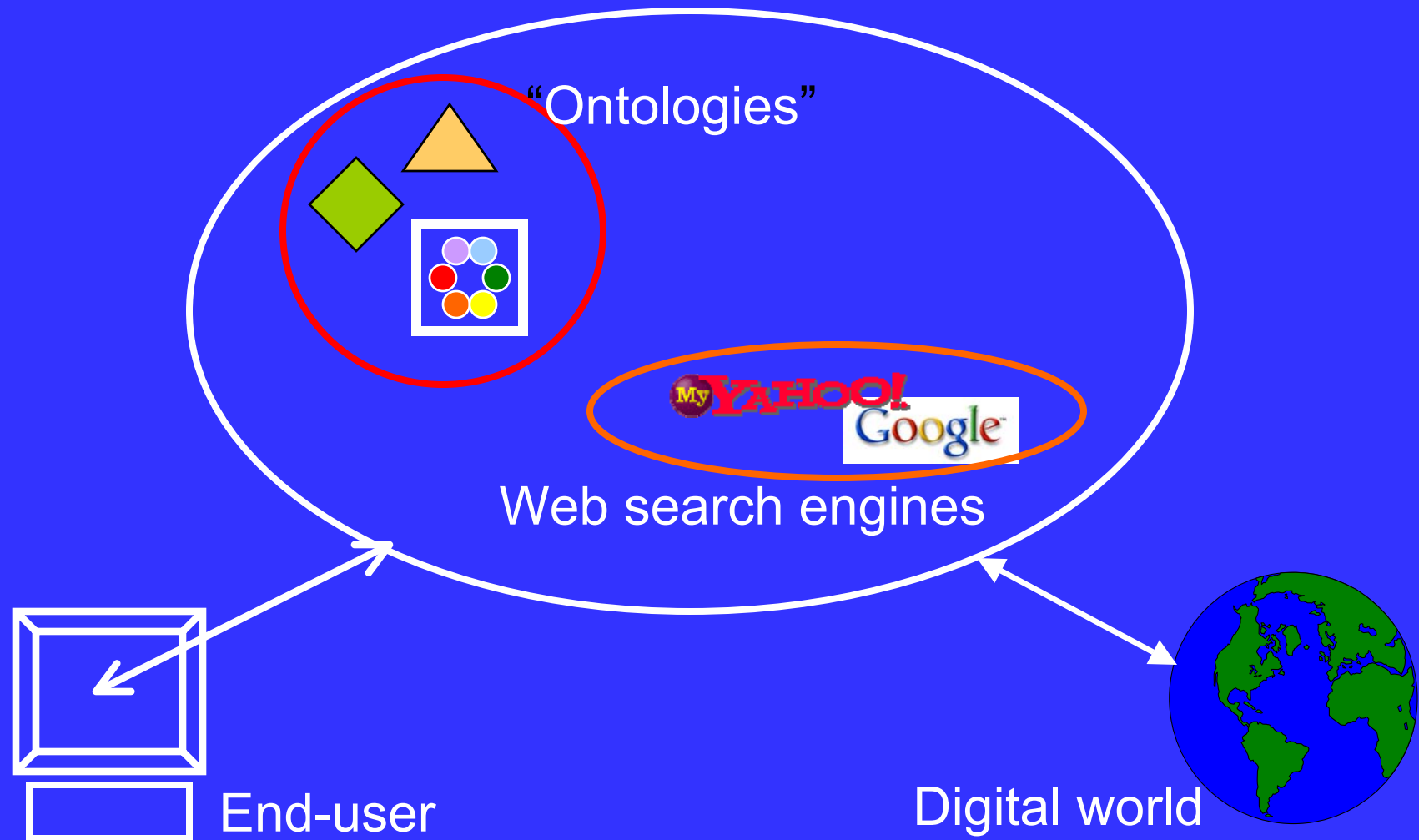
Matching retrospective files

- One time project
- Matching algorithms, such as those developed by Ed O'Neill and others at OCLC
- Links
 - Text strings
 - Control numbers

Semantic Web Building Blocks



Semantic Web Building Blocks



Virtual International Authority File (VIAF)

