

Tools for the Digital Diplomatist

Open source tools for online publication of charters

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Introduction

- searchable charter corpus = effective research tool for historians
- creating a digital corpus: highly desirable, complicated, intimidating
- method proposed: **text encoding + visualization software + database software**
- workflow accomplished through use of **open source** tools
- (web server/space to publish on the WWW)

Text Encoding

- to mark-up or not to mark-up
- sticking to simple text: faster path but also a limited one
 - generic search engines → simple searches
 - texts encoded in HTML anyway
- text encoding: slower, more flexible, powerful path
 - XML search engines: complex, powerful searches
 - convert to (X)HTML for web view, PDF for print
 - can be used to perform text analysis
- light encoding schema → enrich it progressively
- wealth of open source XML editors

XML Schemas

- XML schema = 'grammar' of encoded texts
- custom made schemas:
 - as simple as one wants
 - no or difficult interchange with other projects
 - everything (f.i. stylesheets) has to be created *ex novo*
- TEI (<http://www.tei-c.org/>) schemas:
 - the current "standard"
 - comprehensive set of schema components (modules)
→ flexible customization
 - well documented (TEI Guidelines)
 - community support (mailing list, wiki, TEI by example)

XML-based Projects

- non TEI:
 - CDLM <http://cdlm.unipv.it/>
 - DEEDS <http://res.deeds.utoronto.ca:49838/research/>
- TEI based:
 - Charters Encoding Initiative <http://www.cei.lmu.de/>
- TEI projects:
 - Éditions en ligne de l'École des chartes (ELEC) <http://elec.enc.sorbonne.fr/>
 - The Electronic Sawyer <http://www.esawyer.org.uk/>
 - Chartae Burgundiae Medii Aevi <http://www.artehis-cbma.eu/>
 - Monumenta Germaniae Historica <http://www.dmgh.de/>

TEI Modules for Charter Encoding

- corpus Metadata for Language Corpora
- msdescription Manuscript Description
- namesdates Names, Dates, People, Places
- textcrit Text Criticism
- transcr Transcription of Primary Sources
- (analysis Analysis and Interpretation)
- (figures Tables, Formulae, Figures)
- (gaiji Character and Glyph Documentation)

- [MENOTA Schemas <http://www.menota.org/>]

Future Developments in TEI Land

- absence of a “diplomatic-specific” tag set
- CEI
 - extensions to be integrated with TEI schemas
 - migration through use of XSLT stylesheets
 - see also the Anglo-Saxon Cluster project
- TEI
 - Document / Genetic Criticism module <http://www.tei-c.org/SIG/Manuscripts/genetic.html>
 - why not a SIG?
- just listen to C. Desenclos and V. Jolivet’s paper :)

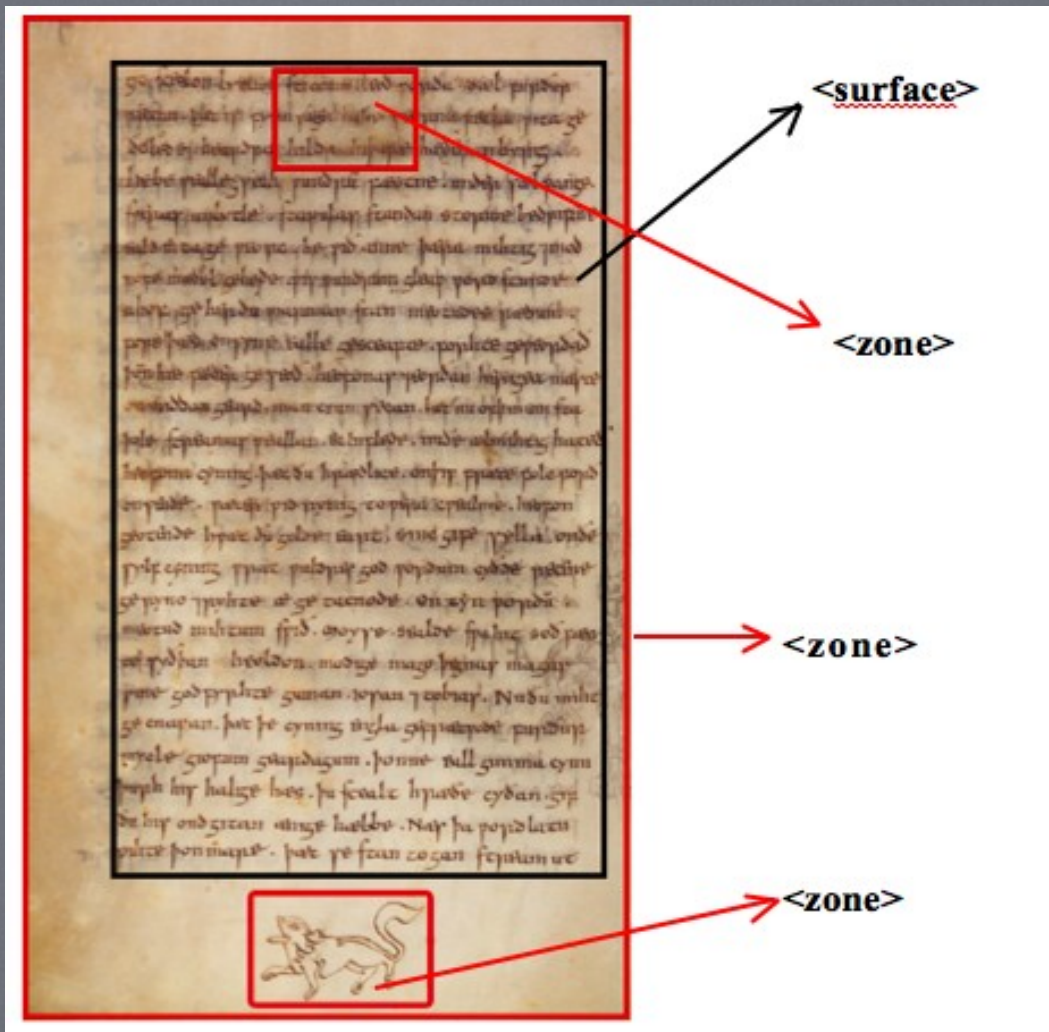
What About Images

- not a primary goal, but sometimes useful / desirable to include manuscript images
- including the *transcr* module in TEI P5 schemas allows to create image-based digital editions or digital facsimiles:
 - global pointer attribute **@facs**
 - element **<facsimile>**
 - element **<surface>**
 - element **<zone>**

<facsimile> Encoding

- linking text and image
 - <facsimile> is a structural element, simplest case: collection of <graphic> elements
 - @fac can be used to link text elements to images
 - for more complex interaction between text and images use <surface> and <zone>
 - <surface> defines the written surface as a rectangular zone
 - <zone> defines a rectangular area on the same cartesian space of a surface element
 - @fac and @corresp link text to image and viceversa

<surface> and <zone>s

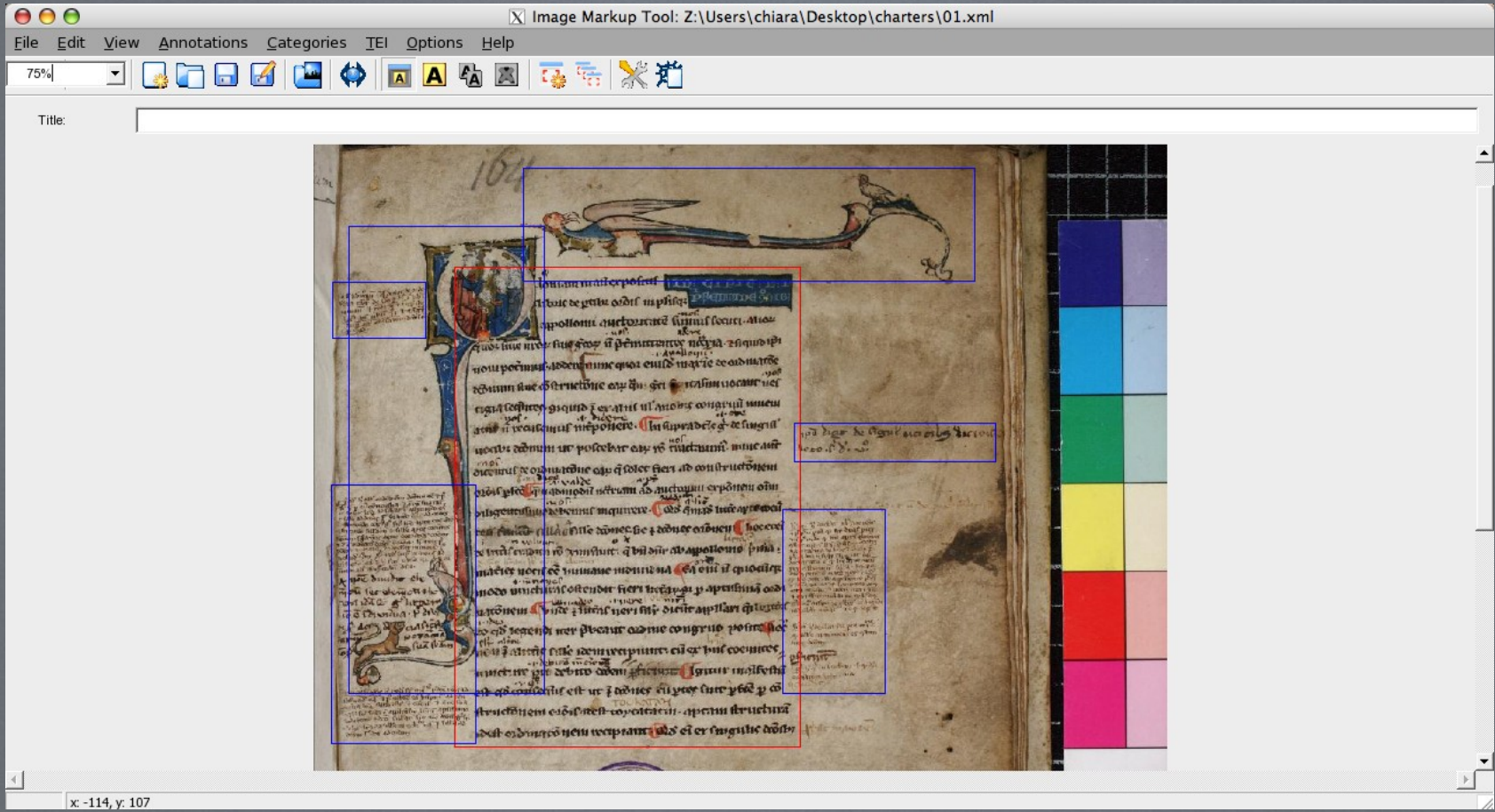


Text-Image Linking: *Electronic Junius* (by B. Muir)

The screenshot displays the 'Electronic Junius' interface. At the top, there are navigation icons (home, search, etc.) and a page number '8v-9r'. Below this, the manuscript page is shown with various text elements highlighted in colored boxes (red, blue, green). A red box highlights the text 'hæpfe con 20 hære ænma 21 ƿeal aƿe 22 gebroan :-'. A blue box highlights the large initial 'A' in 'Ala ƿipa ƿynn 23 ƿeald 24 ƿulƿa 25 ƿu 26 ƿinne 27 ƿu'. A green box highlights the text 'ge ƿinne' in the right-hand column. On the right side, there is a 'Commentary' section titled '9r - The Advent Lyric 4' with a line range of '71-101'. The commentary text includes lines 71 through 101, with line 74 highlighted in pink: 'arece us ƿæt geryne ƿæt ƿe of roderum cwom,*'. Below the commentary, there is a 'Footnote / The Advent Lyric 4 / F74' section with the text 'geryne] Final e is altered from o.' and a small image of the manuscript text 'ge ƿinne' with a red box around it.

The UVic Image Markup Tool

http://www.tapor.uvic.ca/~mholmes/image_markup/



TILE – Text-Image Linking Environment

<http://mith.umd.edu/tile/>

tile text-image linking environment

Auto Line Recognizer Image Annotation Save Load

Documentation version 1.0

Transcript Lines

Anactoria
τίνος αὐτῷ πειθοῖ
μάψ σαγηνεύσας φιλόταταχ
Sappho.
My life is bitter with thy love; thine eyes
Blind me, thy tresses burn me, thy sharp sighs
Divide my flesh and spirit with soft sound,
And my blood strengthens, and my veins abound.
I pray thee sigh not, speak not, draw not breath;
Let life burn down, and dream it is not death.
I would the sea had hidden us, the fire
(Wilt thou fear that, and fear not my desire?)
Severed the bones that bleach, the flesh that cleaves,

Labels

Title

Image Tagger

57

ANACTORIA

τίμος αὐτῷ πειθοῖ
μάψ σαγηνεύσας φιλόταταχ
SAPPHO.

My life is bitter with thy love; thine eyes
Blind me, thy tresses burn me, thy sharp sighs
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And my blood strengthens, and my veins abound.
I pray thee sigh not, speak not, draw not breath;
Let life burn down, and dream it is not death.
I would the sea had hidden us, the fire
(Wilt thou fear that, and fear not my desire?)
Severed the bones that bleach, the flesh that cleaves,
And let our sifted ashes drop like leaves.
I feel thy blood against my blood: my pain
Pains thee, and lips bruise lips, and vein stings vein.
Let fruit be crushed on fruit, let flower on flower,
Breast kindle breast, and either burn one hour.
Why wilt thou follow lesser loves? are thine
Too weak to bear these hands and lips of mine?
I charge thee for my life's sake, O too sweet
To crush love with thy cruel faultless feet,
I charge thee keep thy lips from hers or his,
Sweetest, till thine be sweeter than my kiss:
Lest I too lure, a swallow for a dove,
Eroton or Erinna to my love.

<http://www.textgrid.de/en/1-0.html>

The screenshot displays the TextGridLab application window. The main area shows a manuscript page with Latin text. The text is: Placem homeri greci poetarum maximam opus insignis cui rhoda titulus
inscribitur - a greco in latinum versa Inopit-felicitate
O Lam pande mihi pelide Diva superbi
Tristia qui misero ment funera grae
Ilqz annos fortis heron tradidit orcho
latratuqz sedit rostris volucruqz trahendo
Plorid exanguis inhumatio ossibus artus

The XML transcription in the bottom window is as follows:

```
<text>
  <body>
    <l n="1" xml:id="l1">
      <app>
        <lem wit="#stmatthiasT0048" resp="#pv">Oran</lem>
        <rdg resp="#Baehrens1881 #Scaffai1982">iram</rdg>
      </app>
      pande mihi
      <app>
        <lem wit="#stmatthiasT0048" resp="#pv">pelidae</lem>
        <rdg type="orthographic" resp="#Baehrens1881 #Scaffai1982">Pelidae</rdg>
      </app>
      <supplied source="#Baehrens1881 #Scaffai1982">, </supplied>
      Diva
      <supplied source="#Baehrens1881 #Scaffai1982">, </supplied>
      superbi
    </l>
  </body>
</text>
```

The interface includes a Navigator on the left showing a tree view of files, a Toolkit with various editing tools, and a status bar at the bottom with the text 'TEI/text/body/l/app/lem', 'Writable', 'Smart Insert', '140 : 64', and 'max.mustermann@tue'.

Putting It All Together

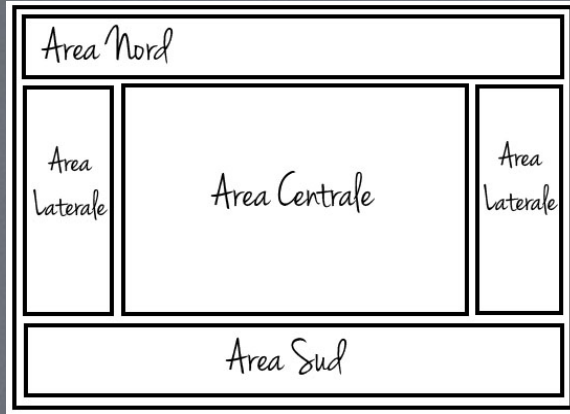
- how to browse text (and possibly images), perform searches of encoded texts?
- solution no. 1: create a web site based on an XML search engine
- solution no. 2: create a web site integrating XML search and other functionalities
- working towards 2 to provide a generic, flexible edition browsing software
- project name: **EVT** – Edition Visualization Technology

What is EVT?

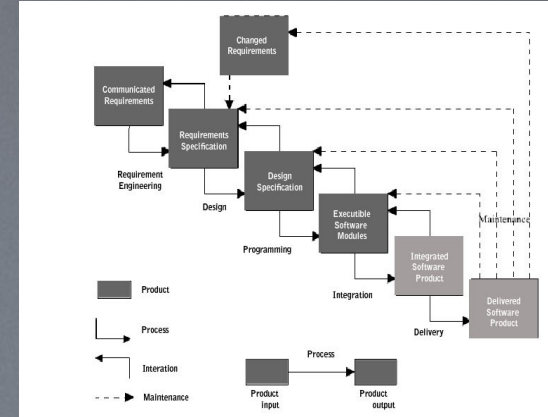
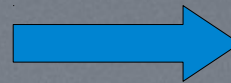
Edition Visualization Technology

“...a complete set of flexible and highly customizable editorial tools developed to allow users to view, read, search and compare editions in an electronic environment.”

Building the EVT: Project Planning



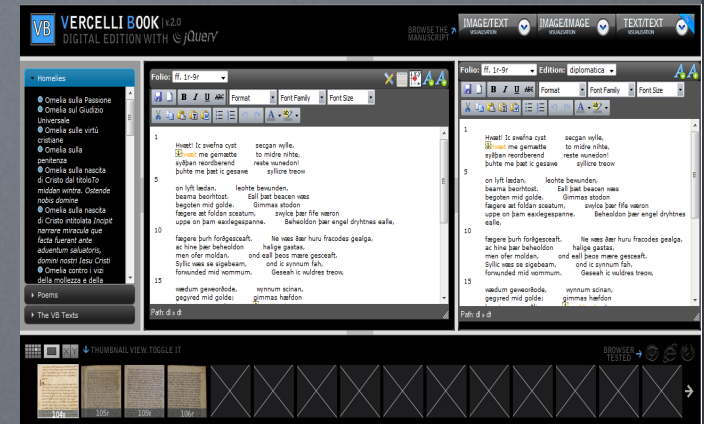
Designing the Gui



Software architecture



Creation of a prototype



Building the EVT

General Criteria

Human factors (ergonomics)

Consistency (link)

Control and Navigation

Scalability

Aesthetic Integrity

Readability

Specific Requirements

Good hyper-textual functionality

Image manipulation tools

Advanced search functionality

Benefits of XML with regards to visualization

- Homelies
 - Omelia sulla Passione
 - Omelia sul Giudizio Universale
 - Omelia sulle virtù cristiane
 - Omelia sulla penitenza
 - Omelia sulla nascita di Cristo dal titolo *To middan wintra. Ostende nobis domine*
 - Omelia sulla nascita di Cristo intitolata *Incipit narrare miracula que*
- Poems
- The VB Texts

Folio: ff. 1r-9r

Format Font Family Font Size

1 Hwæt ic swefna cyst secgan wylle,
Hwæt me gemætte to midre nihte,
wyrpan reordberend reste wunedon!
puhte me þæt ic gesawe syllicre treow

5 on lyft lædan, leohte bewunden,
beama beorhtost. Eall þæt beacen wæs
begoten mid golde. Gimmas stodon
fægere æt foldan sceatum, swylce þær fife wæron
uppe on þam eaxlegespanne. Beheoldon þær engel cyrhtnes ealle,

10 fægere þurh forðgesceaft. Ne wæs ðær huru fracode gealga,
ac hine þær beheoldon halige gastas,
men ofer moldan, ond eall þeos mære gesceaft
syllic wæs se sigebeam, ond ic synnum fah,
forwuned mid wommum. Geseah ic wuldres treow,

15 wædum geweorðode, wronnum scinan,
gegyred mid golde; gimmas hæfdon
bewrigene weorðlice wealdendes treow.

Path: dl » dt

Folio: ff. 1r-9r Edition: diplomatica

Format Font Family Font Size

1 Hwæt ic swefna cyst secgan wylle,
Hwæt me gemætte to midre nihte,
wyrpan reordberend reste wunedon!
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gegyred mid golde; gimmas hæfdon
bewrigene weorðlice wealdendes treow.

Path: dl » dt

THUMBNAIL VIEW, TOGGLE IT

BROWSER TESTED



EVT Example Visualisation Software for a Web-based Digital Edition. Vercelli Book Digital Edition (using jQuery)

Introduction

Help

Preferences

Layout Management

Select Language

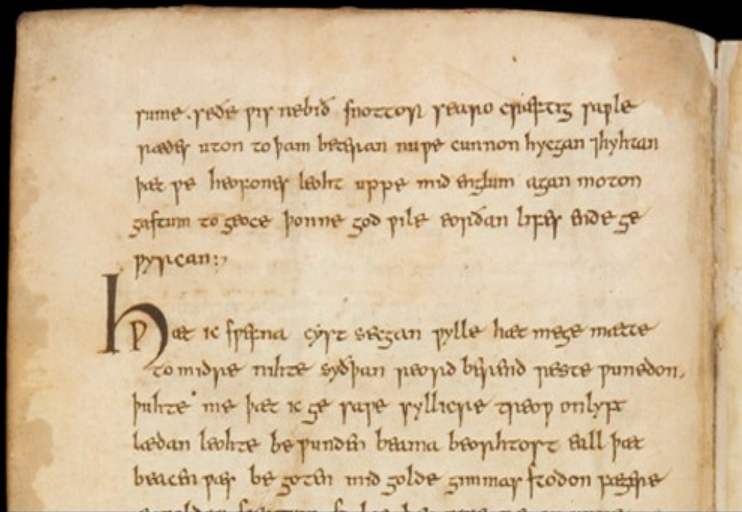
Bookreader

Search

This is an autocomplete
research.

Tags:

Folio: ff. 1r-9r

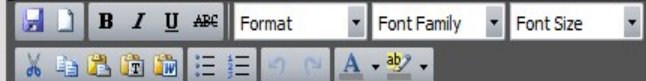


Play Slideshow

Previous Folio Next Folio

Folio: ff. 1r-9r

Edition: diplomatica



1 Hwæt! Ic swefna cyst secgan wylle,
hwæt me gemætte to midre nihte,
syðþan reordberend reste wunedon!
þuhte me þæt ic gesawe syllicre treow

5 on lyft lædan, leohte bewunden,
beama beorhtost. Eall þæt beacen wæs
begoten mid golde. Gimmas stodon
fægere æt foldan sceatum, swylce þær fife wæron
uppe on þam eaxlegespanne. Beheoldon þær engel dryhtnes
ealle,

10 fægere þurh forðgescaft. Ne wæs ðær huru fracodes gealga,
ac hine þær beheoldon halige gastas,
men ofer moldan, ond eall þeos mære gescaft.
Syllic wæs se sigebeam, ond ic synnum fah,
forwunden mid wommum. Geseah ic wuldres treow,

15 wædum geweorðode, wynnus scinan,
gegyred mid golde; gimmas hæfdon
bewrigene weorðlice wealdendes treow.

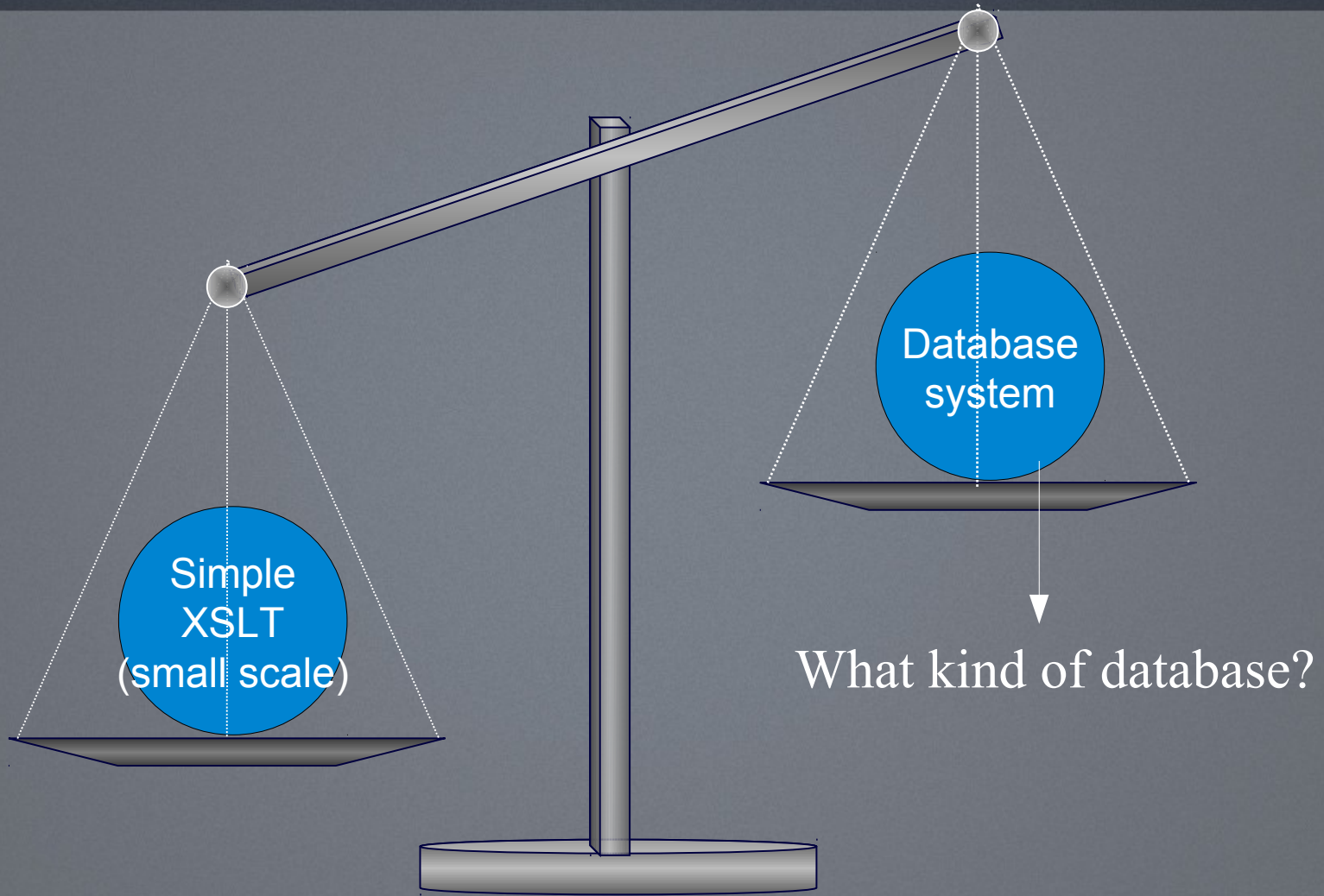
Path: dl » dt

THUMBNAIL VIEW. TOGGLE IT

BROWSER TESTED

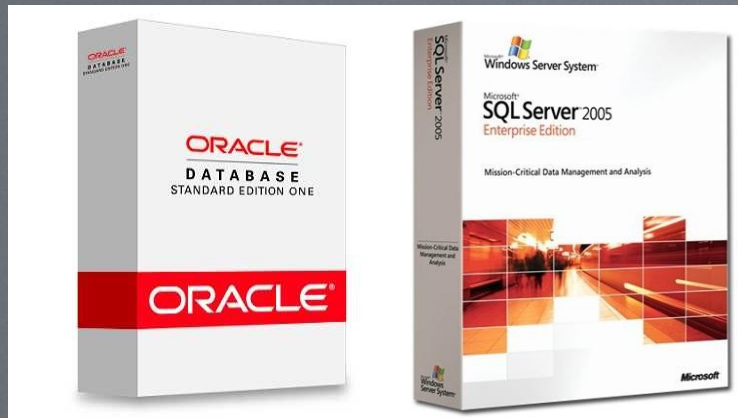


How to manipulate XML files in EVT?



XML DATA MANAGEMENT SYSTEM

XML-Enabled Database



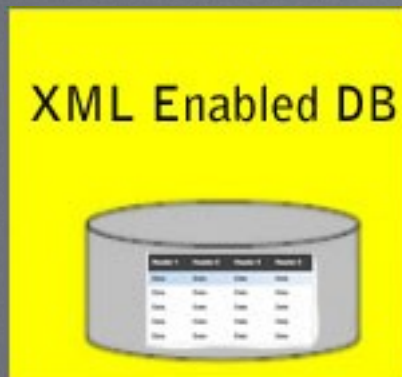
Native XML Database



1. What are the differences?
2. What kind of Database for EVT?
3. Is there any open source and TEI-compatible software?

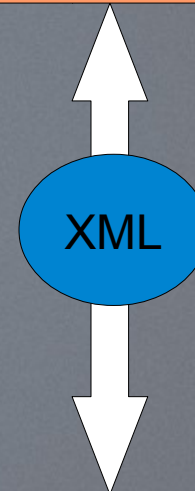
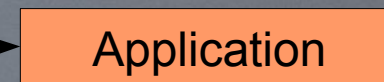
1. DATA FORMAT (XML-Enabled Database)

Data Storage



Today much of the data is stored in relational databases

Application Data



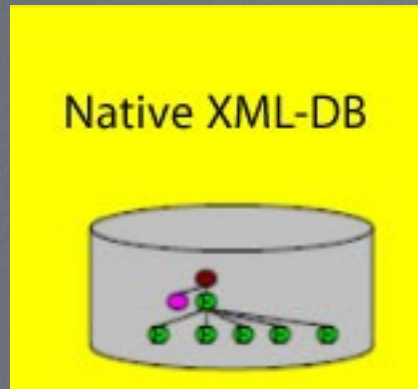
But more and more applications use XML as the format exchange and data manipulation.



This creates a problem of compatibility between storage data and the application data.

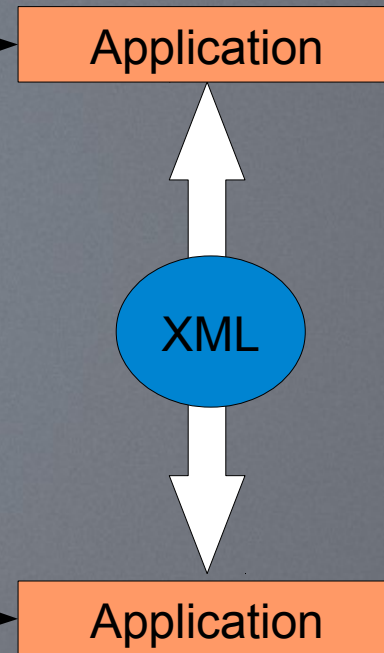
1. DATA FORMAT (XML-Native Database)

Data Storage



The fundamental difference between relational data and XML data has led to the creation of Native XML systems

Application Data



XML – Enabled vs Native XML

	XML- Enabled	Native XML
Architecture	Record on tables	XML hierarchical struct. (collections, resources, service)
DTD or Schema	Necessary	Not necessary
Query	SQL	XQuery
XML data	Data-centric	Document-centric
examples	Access2007, DB2	Exist, Xindice

2. What kind of DB (for EVT)?

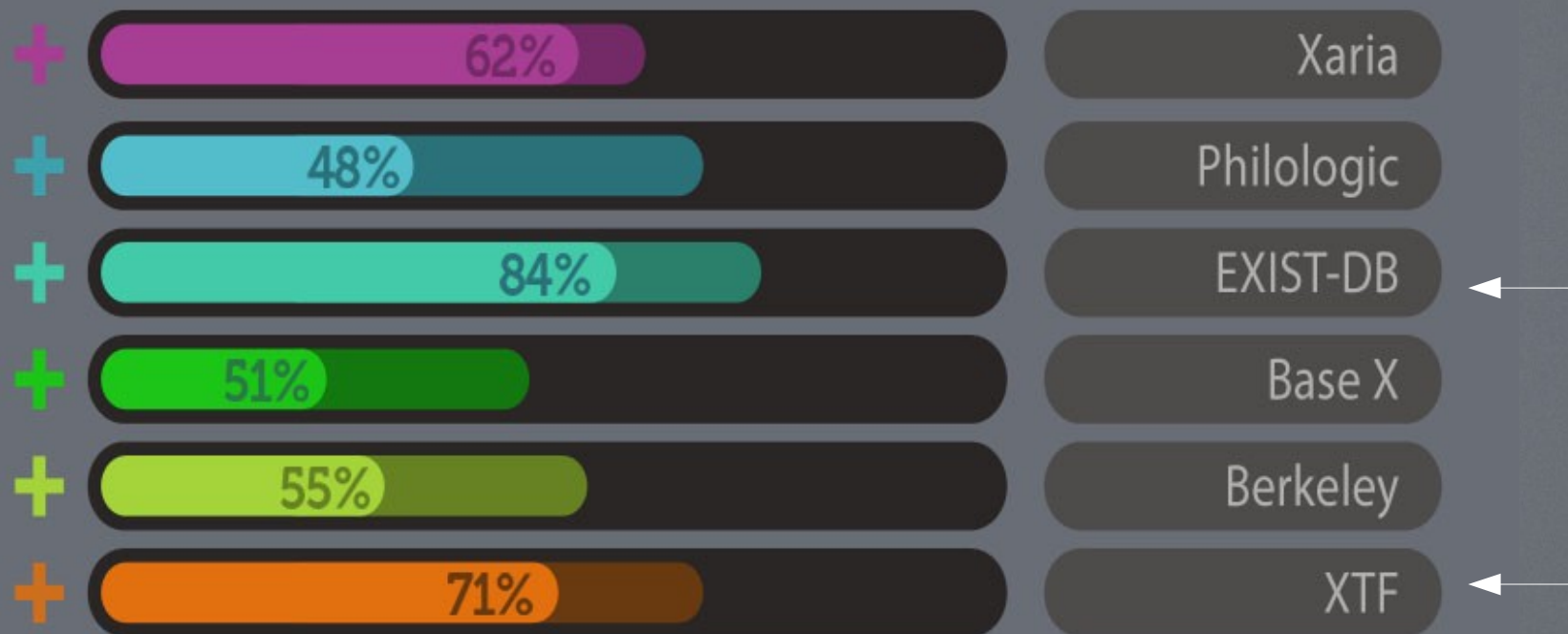
The efficiency of an XML-DB software product can be assessed according to:

- the ability to adapt to documents based on very different schemas.
- the possibility of regenerating XML documents by extracting data from the DB (query).
- the use of query languages (XQuery, XPath).
- the ability to integrate existing data in the XML-DB.

And....

an OPEN SOURCE license

3. Categories of Products: XML-DB Opensource



eXist: Technologies Used

<http://exist.sourceforge.net/>

INTERFACE

- WebDAV
- Javascript+AJAX
- HTML

TECHNOLOGIES

- XQuery
- XPath
- XSLT

The screenshot shows the eXist website homepage. At the top, there is a navigation bar with links for Home, Download, Wiki, and Demo. Below this, there is a main content area with a blue header for 'Overview'. The overview text describes eXist as an open source database management system built using XML technology. A prominent yellow 'Download' button is visible. To the right, there is a 'News Blog' section with a list of recent releases and dates. At the bottom, there is a 'Community Support' section with text about the user and developer community.

XQuery Sandbox

<http://demo.exist-db.org/sandbox/sandbox.xql>

XQuery Sandbox [Home](#) [Download](#) [Wiki](#) [Demo](#)

File

Slots

- [1] --- empty ---
- [2] --- empty ---
- [3] --- empty ---
- [4] --- empty ---
- [5] --- empty ---
- [6] --- empty ---
- [7] --- empty ---
- [8] --- empty ---
- [9] --- empty ---
- [10] --- empty ---

Paste example: [Maximize](#)

```
for $c in //country[population_growth < 0]
order by $c/name
return
<country>
  {$c/name, $c/population_growth}
</country>
```

Display: 20

Found 15 in 0.001 seconds. Showing items 1 to 15

1
2
3
4
5
6
7
8
9

Configure eXist on Oxygen

The screenshot displays the Oxygen XML Editor interface. On the left, the 'Data Source Explorer' shows a tree structure with 'eXist Connection' > 'db' > 'sales' > 'invoices', where 'invoice_AMK3091.xml' is selected. The main editor window shows an XQuery script in 'Untitled1.xquery' with the following code:

```
1 declare namespace s='http://www.oxygenxml.com/sales';
2
3 for $invoice in collection('/db/sales/invoices')/s:invoice
4 let $products:=$invoice/s:products
5 for $product in $products/s:product
6 let $unitCost:=$product/s:unit-cost/text() cast as xs:decimal
7 let $quantity:=$product/s:quantity/text() cast as xs:integer
8 let $total:=$quantity*$unitCost
9 order by $total
10 return (
11     <client id="{ $invoice/s:customer/s:CompanyID/text() }"
12         contactName="{ $invoice/s:customer/s:ContactPerson/text() }">
13         <productID>{ $product/s:partNumber/text() }</productID>,
14         <price>{ $total }</price>
15     </client>
16 )
```

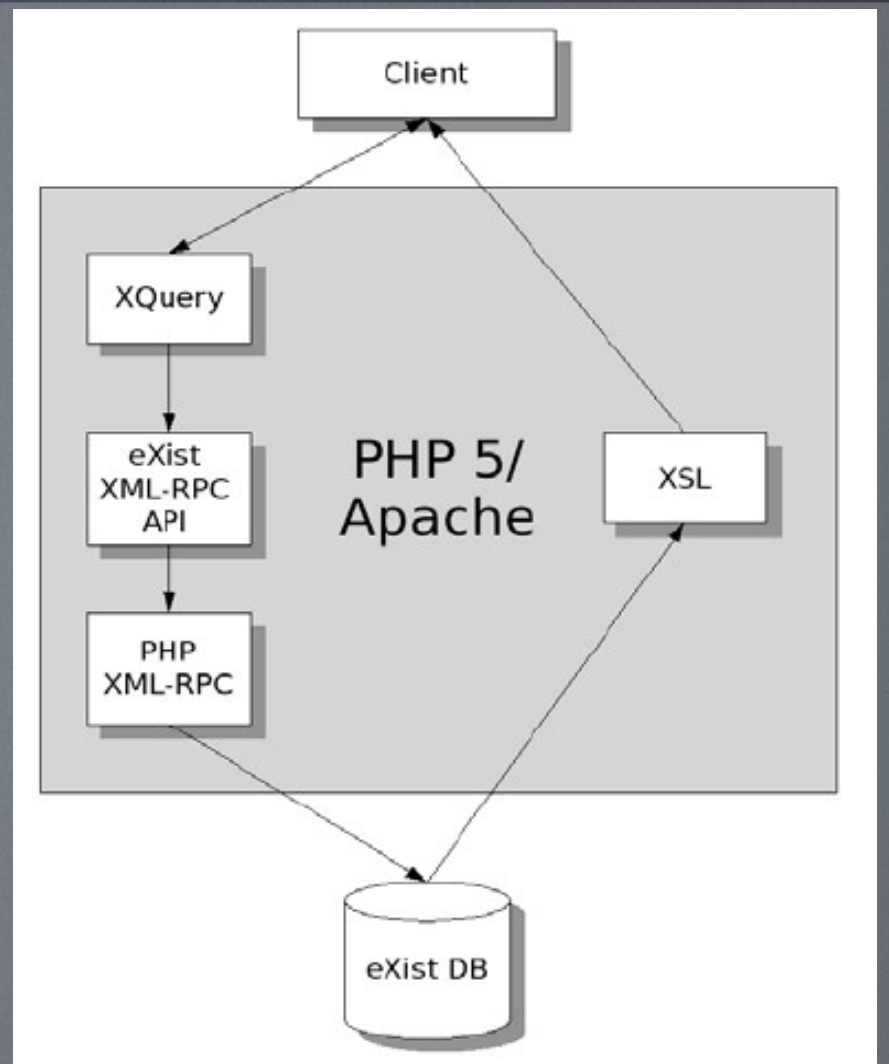
A blue callout box labeled 'Example Query' points to the XQuery code. Below the editor, the 'Results' panel shows the output of the query:

```
1 <client id="3881" contactName="Linda Anderson">
2     <productID>178636</productID>,
3     <price>192</price>
4 </client>
5 <client id="3881" contactName="Linda Anderson">
6     <productID>178696</productID>,
7     <price>415.8</price>
8 </client>
```

A blue callout box labeled 'Query Result' points to the XML output in the Results panel.

eXist-db Architecture

The website runs on PHP 5/Apache and connects to the eXist database through XML Remote Procedure Call.



Example of eXist-Based Project

<http://mariage.uvic.ca/>

LE MARIAGE SOUS L'ANCIEN RÉGIME

Accueil
Satire
Gravures
Fiction
Eloges
Tous les documents
Appareil critique
Articles
Index
Bibliographie
Recherche
chercher
Renseignements
Styles



Faire une recherche

Préférences

Genre de texte:	<input type="text"/>
Catégorie d'annotation:	<input type="text"/>
Auteur:	<input type="text"/>
Éditeur / Maison d'édition / Presse:	<input type="text"/>
Lieu de publication:	<input type="text"/>
Date:	<input type="text"/>
Texte à chercher:	<input type="text" value="MARIAGE"/>
Recherche:	<input type="text" value="n'importe quel mot"/>

Chercher

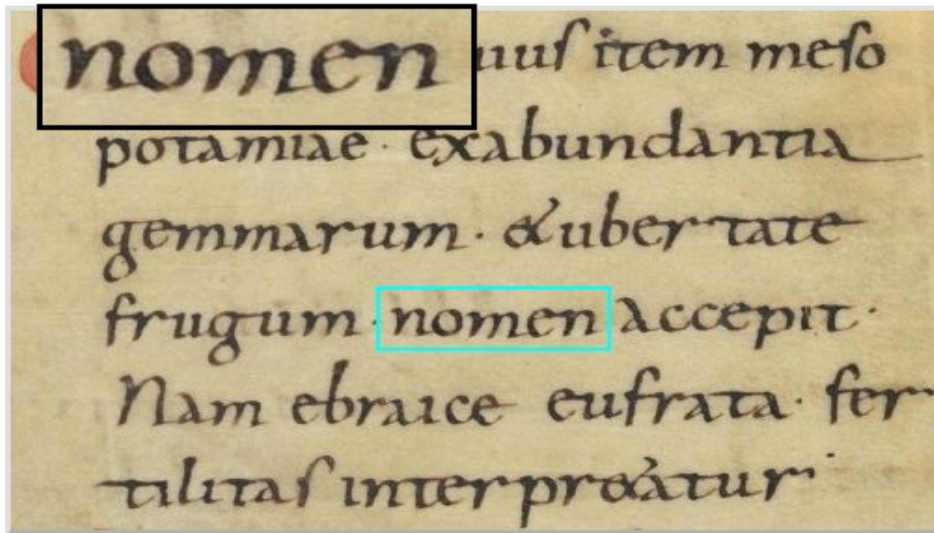
En cherchant des mots reliés à un thème (n'importe quel mot, tous ces mots), on peut se servir d'un caractère générique. ? (un point d'interrogation) correspond à aucun caractère ou à un seul, et * (un astérisque) correspond à aucun caractère ou à plusieurs. Ainsi « mar? » correspondrait à « mari » et à « mary », tandis que « mar* » correspondrait à « mari », à « mari », à « marié » et à « mariée ». Une recherche se servant d'un caractère générique ne peut se faire en même temps qu'une recherche « phrase exacte » parce que celle-ci est conçue pour trouver une phrase précise.

Résultats de recherche

Basic Usage:
the query
may concern
text, author,
date...

Example of eXist-Based Project

Interactive Album of Medieval Palaeography



Advanced Usage:

Select a line
Write on the box
Return from the box

Transcription ☰

See the [user manual file](#) if you have trouble using this exercise. A double-click on a word in the image displays its transcription.

Ligne 1
 .

Ligne 2
-

Ligne 3

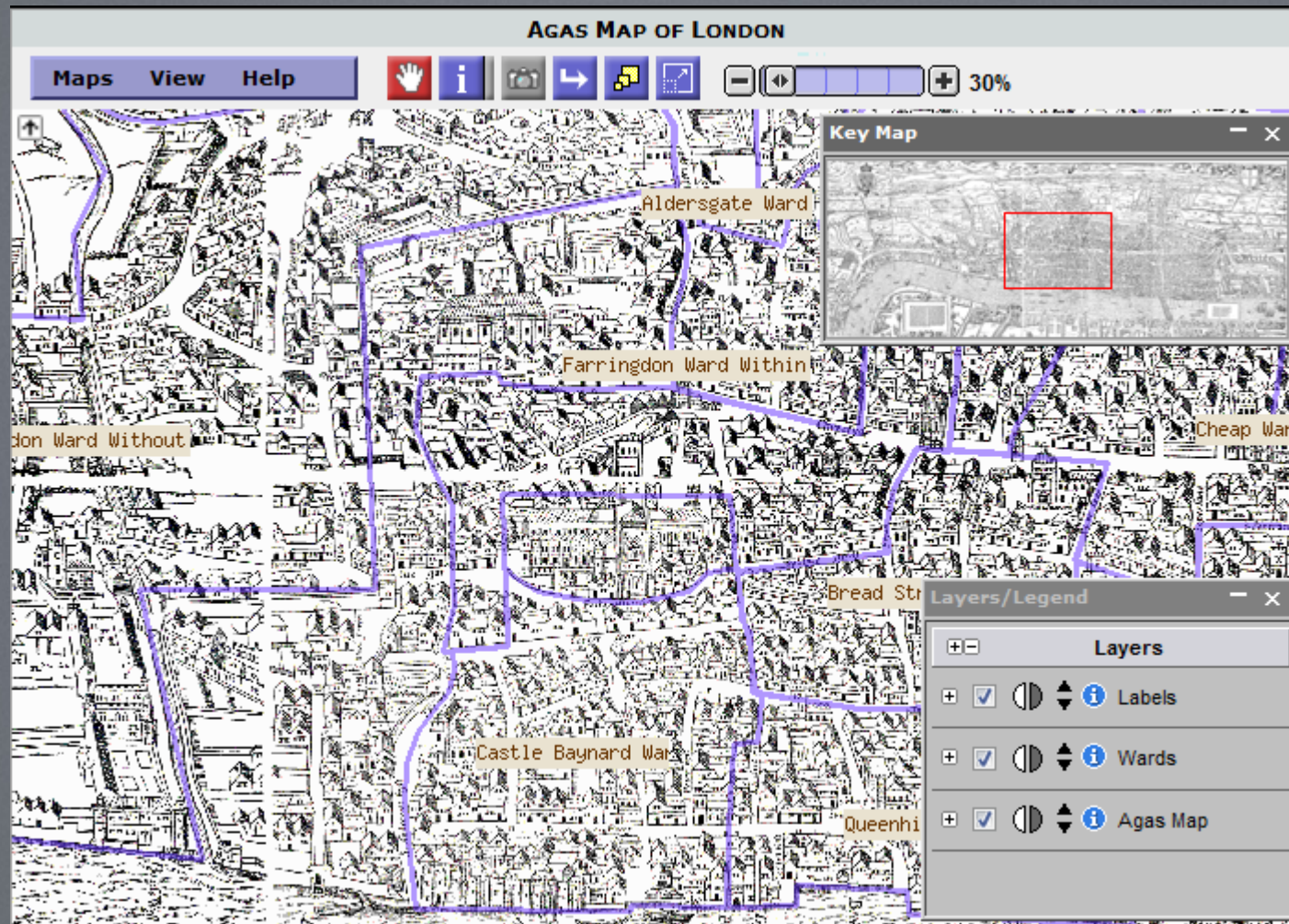
Ligne 4

Ligne 5

<http://ciham.ish-lyon.cnrs.fr/paleographie/index.php?l=en>

Example of eXist-Based Project

<http://www.mapoflondon.uvic.ca/>



Sample Implementations

- Diary of Robert Graves:

<http://graves.uvic.ca/graves/site/index.xml>

- Opera Liber

<http://193.204.255.27/operaliber/index.php?page=/operaLiber/home>

- The Anglo-Norman Dictionary

<http://www.anglo-norman.net/>

- Early Americans Digital Archives

<http://mith.umd.edu/eada/intro.php>

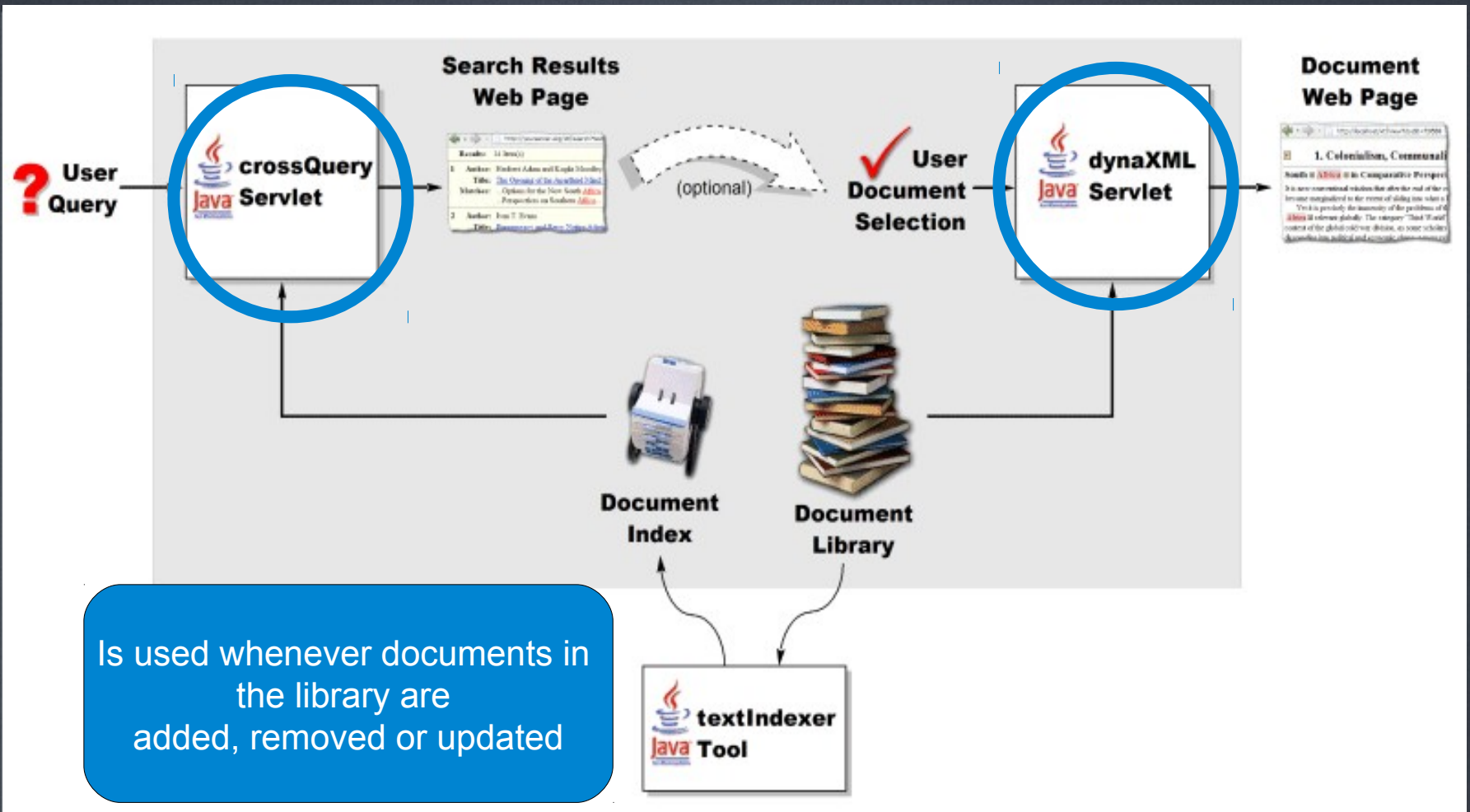
- Corpus Pieter Willems

<http://ctb.kantl.be/corpora/CPWNL/>

- Sermones.net

XTF - Extensible Text Framework Architecture

<http://xtf.cdlib.org/>



The Architecture of XTF. Developed by CDL

Example of Query on a XTF-based Project

<http://www.marktwainproject.org/>

The screenshot shows the 'MTP Search: Letters' interface. At the top, the search type is set to 'Letters' (A.1). Below this, there are tabs for 'Letters', 'Writings', 'Images', and 'Biographies'. A search input field contains the word 'river'. To the left of the search options are radio buttons for 'All of the words' (selected) and 'Any of the words'. To the right are checkboxes for 'Within all categories' (selected) and a list of categories: 'Text', 'Explanatory Notes' (A.2), 'Introductions & Documents', 'Textual Apparatus', 'Sender', 'Addressee', and 'Place of Origin'. Below these is a 'Select date range' section with dropdown menus for 'Day', 'Month', and 'Year' for both 'between' and 'and' (A.3). A 'Tip' at the bottom explains that 'river*' finds 'riverbank', 'riverbed', 'riverboat', etc., and that exact phrases should be in quotes. There are 'CLEAR' and 'SEARCH' buttons at the bottom.

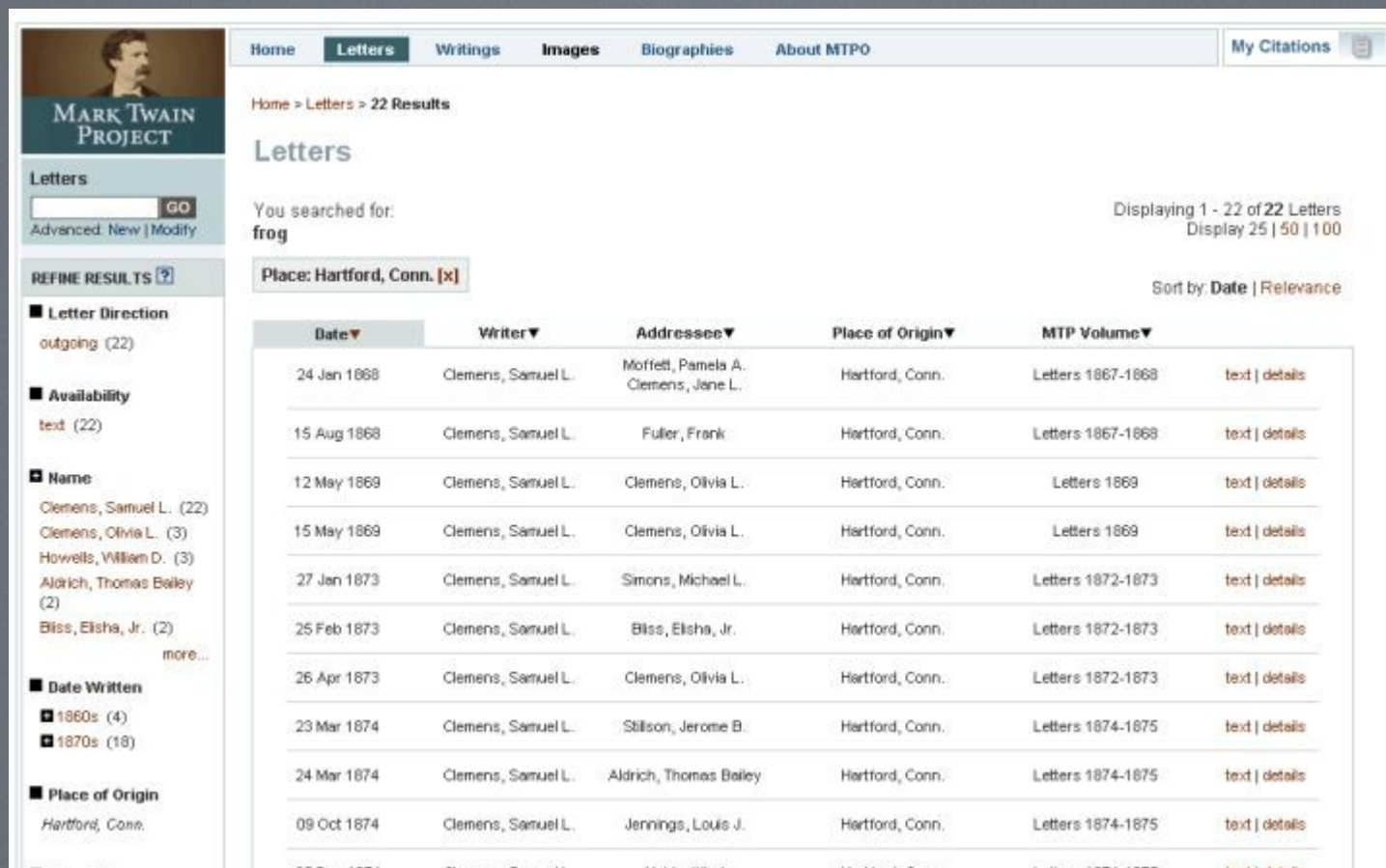
Search individual writings

The screenshot shows search results for 'Sawyer'. The search term 'Sawyer' is entered in the 'Search HF:' field (C.1) with a 'GO' button. Below it, 'Highlight Hits: On | Off' and 'Go to Page:' are visible (C.2). The results list 'Adventures of Huckleberry Finn' (C.4) with 'Expand | Collapse' options. A snippet of text is shown: 'book by the name of "The Adventures of [Tom Sawyer]." but that ain't no matter. That book was made by Mr. Mark Twain, and he told the truth, mainly. There was things which he stretched, but mainly he told the truth. That is [nothing]. I never seen [anybody] but lied, one time or another, without it was [sant] [Poltr]'. A small illustration of a riverbank with a tree and a log is also visible.

Search and Browse

Example of Query on a XTF-based Project

<http://www.marktwainproject.org/>



The screenshot displays the Mark Twain Project website interface. At the top, there is a navigation menu with links for Home, Letters, Writings, Images, Biographies, and About MTPO. A search bar on the left contains the text 'frog' and a 'GO' button. Below the search bar, there are options for 'Advanced', 'New', and 'Modify'. The main content area shows the search results for 'frog' in Hartford, Conn. The results are displayed in a table with columns for Date, Writer, Addressee, Place of Origin, and MTP Volume. The table lists 22 results, with the first few rows visible. The left sidebar contains filters for Letter Direction, Availability, Name, Date Written, and Place of Origin.

Home > Letters > 22 Results

Letters

You searched for: **frog**

Displaying 1 - 22 of 22 Letters
Display 25 | 50 | 100

Place: **Hartford, Conn.** [x]

Sort by: **Date** | Relevance

Date▼	Writer▼	Addressee▼	Place of Origin▼	MTP Volume▼	
24 Jan 1868	Clemens, Samuel L.	Moffett, Pamela A. Clemens, Jane L.	Hartford, Conn.	Letters 1867-1868	text details
15 Aug 1868	Clemens, Samuel L.	Fuller, Frank	Hartford, Conn.	Letters 1867-1868	text details
12 May 1869	Clemens, Samuel L.	Clemens, Olivia L.	Hartford, Conn.	Letters 1869	text details
15 May 1869	Clemens, Samuel L.	Clemens, Olivia L.	Hartford, Conn.	Letters 1869	text details
27 Jan 1873	Clemens, Samuel L.	Simons, Michael L.	Hartford, Conn.	Letters 1872-1873	text details
25 Feb 1873	Clemens, Samuel L.	Bliss, Elisha, Jr.	Hartford, Conn.	Letters 1872-1873	text details
26 Apr 1873	Clemens, Samuel L.	Clemens, Olivia L.	Hartford, Conn.	Letters 1872-1873	text details
23 Mar 1874	Clemens, Samuel L.	Sblison, Jerome B.	Hartford, Conn.	Letters 1874-1875	text details
24 Mar 1874	Clemens, Samuel L.	Aldrich, Thomas Bailey	Hartford, Conn.	Letters 1874-1875	text details
09 Oct 1874	Clemens, Samuel L.	Jennings, Louis J.	Hartford, Conn.	Letters 1874-1875	text details
05 Dec 1874	Clemens, Samuel L.	Unidentified	Hartford, Conn.	Letters 1874-1875	text details

MARK TWAIN PROJECT

Letters

Advanced New | Modify

REFINE RESULTS ?

- Letter Direction**
outgoing (22)
- Availability**
text (22)
- Name**
Clemens, Samuel L. (22)
Clemens, Olivia L. (3)
Howells, William D. (3)
Aldrich, Thomas Bailey (2)
Bliss, Elisha, Jr. (2)
more...
- Date Written**
1860s (4)
1870s (18)
- Place of Origin**
Hartford, Conn.

Mark Twain Project - Searching for Objects

Example of a Hybrid Project

<http://www.labibliotecaitaliana.it>

The screenshot shows the 'Biblioteca Italiana' website interface. At the top, the title 'Biblioteca Italiana' is displayed in a large blue font, with the logo of the University of Rome 'La Sapienza' to its right. Below the title, a red navigation bar contains the text 'Università degli Studi di Roma "La Sapienza"'. The main content area is titled 'Catalogo' and features a search form with fields for 'Autore' and 'Titolo', each with a dropdown menu and a search button. Below the search form, there are sections for 'Limita la ricerca per periodo' and 'Limita la ricerca per genere', both with checkboxes and a 'risultati per schermata' dropdown. The left sidebar contains a menu with categories like 'Biblioteca', 'Partner & Sponsor', and 'Servizi'. The bottom of the page has a section titled 'Scorri il catalogo della biblioteca' with three icons for 'Autori', 'Periodo storico', and 'Genere'.

Biblioteca Italiana
Università degli Studi di Roma "La Sapienza"

28 Gennaio 2011 Il progetto Biblioteca Documentazione

Biblioteca
Catalogo
Scorri per autore
Scorri per genere
Scorri per periodo
Ricerche testuali

Partner & Sponsor
CIBIT
MIUR
ICCU
BDI
ADI
BIDS

Servizi
FAQ
Contatti

Catalogo

Ricerca per campi Help

Autore elenco termini and

Titolo elenco termini

Limita la ricerca per periodo

Origini 200 300 400 500 600 700 800 900

Limita la ricerca per genere

Narrativa Poesia
 Letteratura teatrale Oratoria
 Documenti Testi storici e storiografici
 Lettere ed epistolari Traduzioni e volgarizzamenti
 Memorialistica Trattati

15 risultati per schermata

Scorri il catalogo della biblioteca

Autori Periodo storico Genere

THANK YOU
FOR YOUR TIME