Are We Ready for the Digital Humanities?

Atlantic Provinces Library Association
Lisa Goddard
Memorial University Libraries
May 2011
What are the Digital Humanities?

How can libraries support DH?
Humanities

• Philosophy, literature, religion, art, music, history and language.
• Core library users.
• Core print users.
Digital Humanities

Opening up new knowledge and new ways of learning through the application of digital technologies to any humanities subject.

DH is about creating digital toolsets that allow users to undertake new forms of research in the humanities.

Growing interest and investment.
George Mason: CHNM

ROY ROSENZWEIG
Center for History and New Media

Teaching + Learning
Providing free access to primary sources, building high-quality online teaching modules, and offering instruction on critical thinking skills.

Research + Tools
Developing publications and applications to define digital humanities for a new generation of scholars, librarians and museum professionals.

Collecting + Exhibiting
Bringing history to audiences worldwide by collecting digital records, archiving documents of the past, and presenting historical exhibits.

FEATURED PROJECT
Making the History of 1989
Explore the fall of Communism in Eastern Europe through essays, primary sources, and case studies.

Learn more about this project | Visit the Site

Join us in naming the Center after Roy Rosenzweig!

News
Roy Rosenzweig Prize
May 5, 2011 | The deadline for submitting digital history projects for the
PROJECTS

SEMANTIC FIELDS

“ABSTRACT VALUES IN THE 19TH CENTURY ENGLISH NOVEL: DECLINE AND TRANSFORMATION OF A SEMANTIC FIELD,” BY LONG LE-KHAC AND RYAN HEUSER

[FOR MORE INFORMATION, EMAIL LLEKHAC@STANFORD.EDU.]

Our paper analyzes the historical behavior of several semantic fields of “abstract values” in a corpus of 2,822 19th-century British novels. In his classic study, Culture and Society , Raymond Williams claimed that a group of keywords that arose and/or changed dramatically in the nineteenth century
U Virginia Scholar’s Lab
Digital Humanities in Canada

• U Alberta
• U Toronto
• U Victoria
• UNB

• U Montreal
• McMaster
• McGill
• York
Digital Humanities Projects
Thematic Digital Archives

The Eve of War
- 1860 Statistics
- Church Records
- Census & Tax Records
- Letters & Diaries
- Reference Center
- Site Map

Fall 1859 to Spring 1861

The War Years
- Images
- Official Records
- Battle Maps
- Letters & Diaries
- Reference Center
- Newspapers
- Soldiers’ Records

Spring 1861 to Spring 1865

The Aftermath
- 1870 Statistics
- Freedmens Bureau
- Maps & Images
- Census & Veteran Records
- Letters & Diaries
- Reference Center
- Newspapers
- Memory of the War

Spring 1865 to Fall 1870
Gravures, c. 1630–c. 1715

À partir de 1630, l'invective contre les femmes et le mariage passe du texte à l'image.
[Remarques introductives.]

Galerie (1 – 15 / 71)
Aggregate, Annotate, Review
GIS & Mapping
Clustering & Visualization
The Proceedings of the Old Bailey, 1674-1913

A fully searchable edition of the largest body of texts detailing the lives of non-elite people ever published, containing 197,745 criminal trials held at London's central criminal court. If you are new to this site, you may find the Getting Started and Guide to Searching videos and tutorials helpful.

To search the Proceedings use the boxes on the right or go to the Search Pages.

New Features: Research and Study Guides and Personal Workspaces
Edition Comparisons

OCVE
Online Chopin Variorum Edition

Prelude Op. 28 No. 5 b. 1
The Digital Michelangelo Project: 
3D Scanning of Large Statues

A computer rendering made from a 3D model of Michelangelo's David. The model was built by scanning the statue using a laser triangulation rangefinder and assembling the resulting range images to form a seamless polygon mesh. The mesh contains 8 million polygons, each about 2.0 mm in size. The raw data from which the mesh was built contains 2 billion polygons, representing range samples spaced 0.25 mm apart on the statue surface. Although we also digitized the statue's color, the veining and reflectance shown here are artificial. The rendering includes simulated subsurface scattering, but with arbitrary parameters. Thanks to Henrik Wann Jensen for computing this image.
Tool Building
Anatomy of a DH Project

Lancaster Newsbooks Corpus: Query launcher

Word Search
Search for all instances of a word in the corpus by entering the word-form into the search-box below

- Use no wildcards
- Use SQL wildcards
- Use regular expressions

Run the search  Reset the search

Create a concordance
Word search  Tag search  Word-and-tag search  Phrase search

Dunning et al, “Freeing up digital content with text mining”, Serials. 22(2), July 2009
Text Corpus

• 17thC English news pamphlets
• Dec 1653 to May 1654
• British Library electronic texts
• 312 documents, 800 000 words
CLAWS: Part of Speech Tagging

In the Patrick of Liverpool — which we lately recovered from the Brest men of War — was one Walter Roche — who was to carry her to Brest — and he

- Grammar parsing tool (Linguistics)
- Identifies proper nouns, common nouns, plural nouns, adjectives, prepositions...
- 95–97% accuracy
Geographical Analysis

The World Gazetteer provides a comprehensive set of population data and related statistics.

Population data arranged by country

- Current population figures and area size for all countries and important territories
- Population figures and area size of administrative divisions
- Population figures for the largest cities, towns and places as well as for metropolitan areas
- Historical population data (census or estimates; mostly from last or last two censuses)
- Overview maps that show the position of the country or the administrative divisions

Related data

- Summary statistics for countries and territories as well as for the largest cities and agglomerations
- Current national flags
- Summary maps for various subject
- A pronunciation guide for some languages
- There is a downloadable file for offline research
- A population clock that show the current population of the world
- Comprehensive meta informationen about statistics and the project

Last update: 2010-01-01
Geographical Analysis
USAS: Semantic Parsing

... two\_N1 ships\_M4 from\_Z5 Dunkirk\_Z2 have\_Z5 brought\_M2 Men\_S2.2m Arms\_B1\_PUNC and\_Z5 Ammunition\_G3 to\_Z5 Middleton\_Z1mf

Ships = M4 (shipping, swimming, etc.)
Men = S2.2m (People:-Male)
Ammunition = G3 (warfare, defence and the army; weapons)
3. Place-name map generated in response to a search for words related to the concept of ‘war’
GIS Mapping: Topic ‘Money’

*Place-name map generated in response to a search for words related to the concept of ‘money’*
Where’s the Beef? Does Digital Humanities Have to Answer Questions?

May 12th, 2010 · 11 Comments

The criticism most frequently leveled at digital humanities is what I like to call the “Where’s the beef?” question, that is, what questions does digital humanities answer that can’t be answered without it? What humanities arguments does digital humanities make?

Concern over the apparent lack of argument in digital humanities comes not only from outside our young discipline. Many practicing digital humanists are concerned about it as well. Rob Nelson of the University of Richmond’s Digital Scholarship Lab, an accomplished digital humanist, recently ruminated in his THATCamp session proposal, “While there have been some projects that have been developed to present arguments, they are few, and for the most part I sense that they haven’t had a substantial impact among academics, at least in the field
DH Library Fears

The Humanists are leaving us for the Computer Scientists.
Digital Humanities Sources
Friday Oct. 30, 1935

Since I am likely to be some days in this hospital for treatment, I am going to make use of my enforced leisure, and fill in the time by writing out roughly some of the things that have happened in my life which are a bit out of the common. I shall scribble them roughly and hope that at some future day of leisure - not in hospital for treatment, I hope - I shall be able to put them in proper, or at least more presentable, form.

Cluny Macpherson

Woolavington Wing
Middlesex Hospital
London, W1
Primary source materials

THE FISHERMEN'S ADVOCATE. Published in the Interest of the Fishermen's Protective Union. Vol. 3, No. 30. ST. JOHN'S, NEWFOUNDLAND, SATURDAY, JULY 27, 1912. Price: 1 cent. EDITORS NOTES. - There are certain forces of nature which remain dormant and apparently lifeless, for days, months, or perhaps years. Silently but no less surely accumulating during its time of inactivity that energy and power which can transform the mighty and magnificent city with its wonderful buildings and every luxuriance that the modern mind can devise, into a tangled mass of debris, witness the earthquake and the volcano. From nature we learn that there are irresistible forces which man cannot control, but still we may learn very many valuable lessons from the course which this mighty power exerts. As in nature so it has been with a great many of the great political upheavels and moral reforms of the past. Nations and people having sunk into such a state or condition that all sense of right or honor seemed to be dead. Oppression and debauchery had full sway, but the time of the awakening came slowly but surely, and many of the countries of Europe were revolutionized, changed, old things passed away and gave place to the new. The means and methods for the transformation were not always of a peaceful nature, and it shocked us when we read of the sufferings and bloodshed. Still the force and energy of the victims of oppression were uncontrollable and the work of destruction preceded the foundation of truth and liberty. We believe that truth and honesty will prevail, but where the great wrong and evil is, so many unscrupulous persons thrive and grow rich, using means and methods, no matter what, so long as they can keep clear of the Penitentiary. At the same time the poor, simple minded man, honest and truthful, is the victim every time. If the poor man even unintentionally breaks the law, there is no excuse for him. The Magistrates of the outports fearing the displeasure of their superiors, in the majority of cases, adhere to the letter of the law, and pa's sentence for the punishment of the innocent and unsuspecting offender. We can't forget the recent case of Moss and the forest fire. Do you think it is right, for this poor man whom we believe to be innocent of intentionally setting the woods on fire, to be made an
Primary source materials

The Library of Congress > National Jukebox

NATIONAL JUKEBOX

National Jukebox
Historical Recordings from the Library of Congress

Search

WARNING: Historical recordings may contain offensive language. Read the disclaimer »

Now Playing...
- Temptation rag
- Little David, play on yo' harp
- I dreamed I dwelt in marble halls
- That slippery slide trombone
- Selection from I pagliacci
- Dreamy days
- If you talk in your sleep, don't mention my name

About the National Jukebox
The Library of Congress presents the National Jukebox, which makes historical sound recordings available to the public free of charge. The Jukebox includes recordings from the extraordinary collections of the Library of Congress Packard Campus for Audio Visual Conservation and other contributing libraries and archives.

View This Playlist »
Digital Images of Yale’s Vast Cultural Collections Now Available for Free

posted: May 10, 2011

Scholars, artists and other individuals around the world will enjoy free access to online images of millions of objects housed in Yale’s museums, archives, and libraries thanks to a new "Open Access" policy that the University announced today. Yale is the first Ivy League university to make its collections accessible in this fashion, and already more than 250,000 images are available through a newly developed collective catalog.

The goal of the new policy is to make high quality digital images of Yale’s vast cultural heritage collections in the public domain openly...
Large text corpora
**ECCO-TCP**

The University of Michigan, the University of Oxford, and Gale have cooperated in a Text Creation Partnership to create 2,231 accurately keyed and fully searchable SGML/XML text editions from among the 150,000 titles available in the Eighteenth Century Collections Online (ECCO) corpus. These texts are now fully available to the public in two formats: plain text editions can be requested from 18thConnect, an online resource initiative in 18th century studies, and sgml/xml editions can be requested directly from our office. ECCO is an important research database that includes every significant English-language and foreign-language title printed in the United Kingdom during the
Large text corpora

Please note that some of our resources do not appear in this table. Reasons for this might include that they were deposited with us for preservation only, and not dissemination, or that our legal right to disseminate them has been questioned.

<table>
<thead>
<tr>
<th>ID</th>
<th>Availability</th>
<th>Title</th>
<th>Language</th>
<th>Author</th>
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</thead>
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<tr>
<td>2541</td>
<td>free</td>
<td>VU Amsterdam Metaphor Corpus</td>
<td>English</td>
<td>Gerard J Steen; Aletta G Dorst; J Berenike Herrmann; Anna A Kaal; Tina Krennmayr</td>
</tr>
<tr>
<td>2540</td>
<td>free</td>
<td>Speech, Thought and Writing Presentation Corpus (STWP)</td>
<td>English</td>
<td>Culpeper, Jonathon; Semino, Elena; Short, Mick; Wynne, Martin</td>
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<tr>
<td>2539</td>
<td>restricted</td>
<td>British Academic Written English Corpus</td>
<td>English</td>
<td>Nesi, Hilary; Gardner, Sheena; Thompson, Paul; Wickens, Paul</td>
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<tr>
<td>2537</td>
<td>free</td>
<td>GerManC. A Historical Corpus of German Newspapers 1650-1800</td>
<td>German</td>
<td>Durrell, Martin; Ensslin, Astrid; Bennet, Paul (ed.)</td>
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<td>2531</td>
<td>free</td>
<td>The Lancaster Newsbooks Corpus</td>
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<td>Thomason, George, d. 1666</td>
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<tr>
<td>2530</td>
<td>restricted</td>
<td>Language convergence and grammatical borrowing database</td>
<td>English</td>
<td></td>
</tr>
</tbody>
</table>
Large text corpora

Text-Mining Ahead: HathiTrust Research Center to Open Corpus to Researchers

By David Rapp  Apr 28, 2011

The digital repository HathiTrust, in partnership with technology centers at Indiana University and the University of Illinois at Urbana-Champaign, recently launched the HathiTrust Research Center, which will leverage the two academic institutions' considerable computing power, and HathiTrust's millions of digitized words, for text-mining projects serving the humanities.
Large text corpora

Proposed settlement
In-copyright works owned by universities
Non-consumptive purposes
One or two centres
Linguistic Corpora

About the BNC

The British National Corpus (BNC) is a 100 million word collection of samples of written and spoken language from a wide range of sources, designed to represent a wide cross-section of current British English, both spoken and written. [more]

Search the Corpus

Type a word or phrase in the search box and press the Return key on your keyboard to see up to 50 random hits from the corpus.

Look up:  

Enter text  Go

You can search for a single word or a phrase, restrict searches by part of speech, search in parts of the corpus only, and much more.

The search result will show the total frequency in the corpus and up to 50 examples. [more information]
Historical Linguistic Corpora

PennParsedCorpora of Historical English

The Penn Historical Corpora, including the Penn-Helsinki Parsed Corpus of Middle English, second edition (PPCME2), the Penn-Helsinki Parsed Corpus of Early Modern English (PPCEME), and the Penn Parsed Corpus of Modern British English (PPCMBE), are syntactically annotated corpora of prose text samples of English from the indicated time periods. Their syntactic annotation (parsing) permits searching not only for words and word sequences, but also for syntactic structure. The corpora are designed for the use of students and scholars of the history of English, especially the historical syntax of the language, and they are publicly available.

The Penn Parsed Corpora of Historical English are available on CD-ROM. Site licenses for departments/research groups and libraries are also available. See the corpus Order Form for charges. Corpus license fees go toward improving the corpora and increasing them in size. Upgrades, when completed, are available to corpus license holders at a modest cost.

If you currently hold a license for the two older corpora, the PPCME2 and the PPCEME, and wish to obtain the PPCMBE, please contact akrochATgmailDOTcom for upgrade information.

The Penn Historical Corpora are distributed with a search program CorpusSearch2, written by Beth Randall and released as open source software downloadable from its Sourceforge project website.

- The PPCME2 was created with the support of the National Science Foundation (Grants BNS89-19701 and SBR95-11368), with supplementary support from the University of Pennsylvania Research Foundation.
Welcome to NHGIS

The National Historical Geographic Information System (NHGIS) provides, free of charge, aggregate census data and GIS-compatible boundary files for the United States between 1790 and 2000. NHGIS offers the following options to obtain data:

- The [NHGIS Shape Finder](#) provides access to boundary files for mapping data in a [GIS software package](#).

- The [NHGIS Data Finder](#) provides access to aggregate census data.

- [Social Explorer](#) allows online mapping of NHGIS data.

Funding for the NHGIS provided by the [National Science Foundation](#) and the [National Institutes of Health](#).
Historical Census Datasets

Welcome

The Programme de recherche en démographie historique (PRDH), Département de Démographie, Université de Montréal, hosts several research and database construction projects based on the study and use of nineteenth-century Canadian historical censuses. Our current historical census database construction projects focus upon the Canadian censuses of 1852 and 1881. Together, these projects offer tremendous opportunities for historical, demographic and genealogical research.

The 1852 Canadian census was the first Canadian census to collect individual-level information on all household members. The 1852 Canadian census database based on this enumeration represents 20% of the population of Upper Canada and Lower Canada which was enumerated in 1852 and for which schedules of the manuscript census survive, an equivalent of 235,341 cases. The 1852 Census will also serve to close the period of observation covered by the Registre de la population du Québec ancien, a family reconstitution database which comprises Catholic parish records and birth and death records.
Etext Preferences: Cost

- Free
- Institution site-license
- Paid for by grants
- Same price as print
- On-line subscription I pay for

Percent of Respondents

- Important
- Unimportant
Etext Preferences: Quality

- Reliable institution
- Peer reviewed
- Based on established edition
- Reputable publisher
- References to authoritative edition
- Available with original images
- References to student’s authoritative edition

Percent of Respondents

Important
Unimportant
Etext Preferences: Availability

Available legally
Stable form
With documentation
On web

Percent of Respondents

Important
Unimportant
Licensing & Rights

- Multi-layered sources with different licensing conditions.
- Copyright over annotations, data sets, other user-generated information.
- Need for clearly expressed rights info.
Copyright review project

Copyright Review Management System - IMLS National Leadership Grant

In 2008, the University of Michigan Library was awarded a National Leadership Grant from the Institute of Museum and Library Services to create a Copyright Review Management System (CRMS). The purpose of the project is to increase the reliability of copyright status determinations of books published in the United States from 1923 to 1963 in the HathiTrust Digital Library, and to help create a point of collaboration with other institutions. Hundreds of thousands of books were published in the United States between 1923 and 1963, and although many of these are likely to be in the public domain, individuals must manually check their copyright status to make a determination. If a work is still in copyright, a user may be required to purchase a license for use.
Library Role: Sources

• Acquire & preserve primary sources
• Digitization & transcription
• Open, flexible formats
• Large text aggregations
• Data sets
• Licensing & copyright
Digital Humanities Metadata
Traditional Metadata

- Access to print collections
- Authorities
- Thesauri
- Bibliographies
- Indexes
- Concordances
Thomas Jefferson papers, 1606-1943

Collection Summary

Title
Thomas Jefferson papers, 1606-1943

Span Dates
1606-1943

Bulk Dates
(bulk 1775-1826)

ID No.
MSS27748

Creator
Jefferson, Thomas, 1743-1826

Extent
25,000 items; 225 containers plus 9 oversize; 90 linear feet; 65 microfilm reels

Language
Collection material in English

Location
Manuscript Division, Library of Congress, Washington, D.C.

Summary
United States president, vice president, and secretary of state; diplomat, architect, inventor, planter, and philosopher. Correspondence, official statements and addresses, including a rough draft of the Declaration of Independence, plantation and personal accounts, notebook, fee book, case book, garden book, farm book, calculations of interest, records of early Virginia laws and history and other writings on political, legal, educational, and scientific matters, newspaper clippings, and other papers.
Finding Aids: Data Sets

Results for "census"

<table>
<thead>
<tr>
<th>Name</th>
<th>Popularity</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data.gov Catalog</td>
<td>550 views</td>
<td></td>
</tr>
<tr>
<td>An interactive dataset containing the metadata for the Data.gov raw datasets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. City and County Web Data</td>
<td>162 views</td>
<td></td>
</tr>
<tr>
<td>Geography and Environment, county</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This geographic names data set provides a &quot;mashup&quot; of URLs for city and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Contractor Registration (CCR) FOIA Extract</td>
<td>97 views</td>
<td></td>
</tr>
<tr>
<td>Information and Communications, vendor, registration, contractor, cens number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This dataset lists all government contractors previously available under FOIA.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American FactFinder</td>
<td>63 views</td>
<td></td>
</tr>
<tr>
<td>Population, language, number of rooms, renters, marital status, ...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American FactFinder is the U.S. Census Bureau's online, self-service tool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010 Census TIGER/Line Shapefiles</td>
<td>78 views</td>
<td></td>
</tr>
<tr>
<td>Geography and Environment, American Indian, 2010 extracts containing geographic and cartographic information from the</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Labor Force, Employment, and Earnings College enrollment and work activity of high school...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Current Population Survey (CPS) is a monthly survey of households</td>
<td></td>
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</tr>
</tbody>
</table>
Sources for London Lives

A fully searchable edition of 240,000 manuscripts from eight archives and fifteen datasets, giving access to 3.35 million names.

To search London Lives use the boxes on the right or go to the Search Pages.
Cultural Objects Name Authority™ Online

Copyright information

Accessing CONA
The CONA online search module is under development. It is scheduled to go live in early 2012. In the meantime, please contact us at vocab@getty.edu if your institution wishes to contribute to CONA. As with the AAT, TGN, and ULAN, CONA grows through contributions from the user community.

About CONA
Learn about the purpose, scope, and structure of CONA. CONA comprises authority records for cultural works, including architecture and movable works such as paintings and sculpture.

F.A.Q. about CONA
Here you will find a list of the most frequently asked questions about CONA.

CONA@getty.edu
Specialized Thesauri

European Language Social Science Thesaurus (ELSST)

ELSST is a broad-based multilingual thesaurus for the social sciences. Originally based on the monolingual thesaurus Humanities and Social Science Electronic Thesaurus (HASSET) of the UK Data Archive at the University of Essex, ELSST has been developed over the years by the members of the Council of European Social Science Data Archives (CESSDA) for use in an international setting. Its main aim is to facilitate access to data resources across Europe, independent of domain, resource, language and vocabulary. ELSST is used to aid retrieval in the multinational CESSDA data portal.

The source version of ELSST is the English thesaurus. The thesaurus is currently translated into eight other languages: Danish, Finnish, French, German, Greek, Norwegian and Spanish and Swedish. Translation into further languages is planned.
Full Text Markup
Text Encoding Initiative (TEI)
Metadata: TEI

```xml
<div n="castlist" type="DramatisPersonae"
     org="uniform" sample="complete">
  <castList>
    <head>Dramatis Personae</head>
    <castItem type="role">
      <role xml:id="wag">Wagner</role>
    </castItem>
  </castList>
  ...
</div>
```
For is he not Corpus naturale?
Nothing so sweet as choice
<orig>Magicke</orig>
<reg>magic</reg> is to him;
<metDecl pattern="\((+|-)+\|?/?\)*">
  <metSym value="trochee" terminal="false">+-</metSym>
  <metSym value="iamb" terminal="false">-+</metSym>
  <metSym value="spondee" terminal="false">+++</metSym>
  <metSym value="pyrrhic" terminal="false">--</metSym>
  <metSym value="amphibrach" terminal="false">--+</metSym>
  <metSym value="anapaest" terminal="false">---+</metSym>
  <metSym value="+">metrical prominence</metSym>
  <metSym value="-">metrical non-prominence</metSym>
  <metSym value="|">foot boundary</metSym>
  <metSym value="/">metrical line boundary</metSym>
</metDecl>
"Fury said to a mouse, That he met in the house, 'Let us both go to law: I will prosecute you.— Come, I'll take no denial; We must have a trial: For really this morning I've nothing to do.' Said the mouse to the cat.

<l rend="font-size(100%) indent(5px)">both go</l>
<l rend="font-size(100%) indent(-7px)">to law:</l>
<hi rend="italic">I will</hi>
<hi rend="italic">will</hi>
<hi rend="italic">prosecute</hi>
<hi rend="italic">you.</hi> —

May the Lord grant that I may never spend another day, like that, in the dread and horrid scenes of Battle.

We changed position and at 1 P.M. we went into heavy action and all ammunition was gone, with great credit, but much loss to the 121st O.V.I. God alone spared me.
<p>On the march A splendid fire of Cedar rails afforded us to make a <seg type="food">cup of coffee and fry fresh mutton</seg></p>
Metadata: Library Role

- Metadata crosswalks
- Controlled vocabularies
- Thesauri & taxonomy
- Name authorities
- Text mark-up
Digital Humanities Preservation
Preservation: Library Role

- Storage infrastructure
- Digital objects & texts
- User generated annotations
- User generated data sets
- Software environments & tools
- Preservation metadata
- Long term access
Library Support for Digital Humanities

- Sources
- Licensing
- Digitization
- Metadata
- GIS & Data
- Sharing
- Preservation
Thank you.

Lisa Goddard
Scholarly Communications Librarian
lgoddard@mun.ca
http://www.library.mun.ca/goddard.php