

http://www.flickr.com/photos/samuel-huron/4625447671/

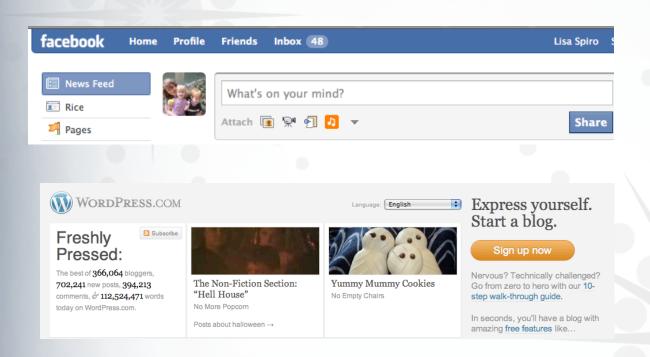
Why the Digital Humanities?

Lisa Spiro
Director, NITLE Labs
Ispiro@nitle.org
7 October 2011





How Has Society Changed Since the Emergence of the Web?









What Are the Digital Humanities?





Digital Humanities Defined

"Digital humanities is a diverse and still emerging field that encompasses the practice of humanities research in and through information technology, and the exploration of how the humanities may evolve through their engagement with technology, media, and computational methods."

(Digital Humanities Quarterly)



Why the Digital Humanities?



Provide wide access to cultural information



Enable us to manipulate that data: manage, mash up, mine, map, model



Transform scholarly communication



Enhance teaching and learning



Make a public impact



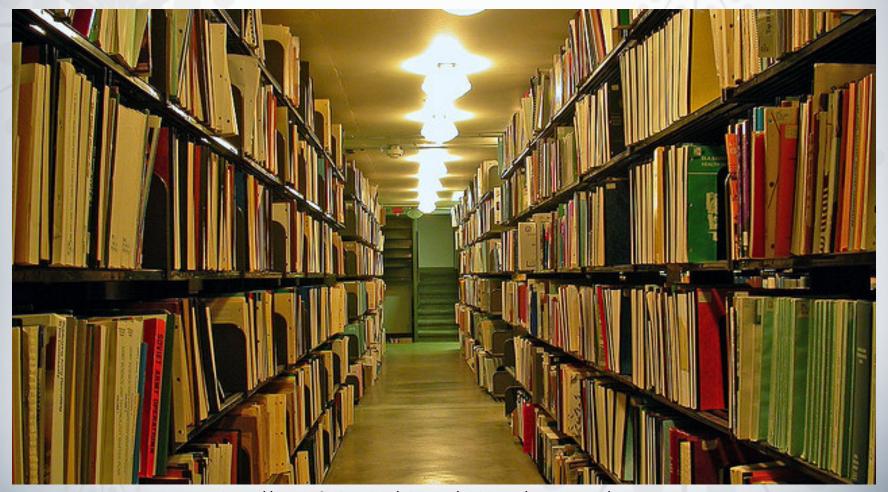


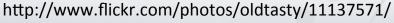
http://www.flickr.com/photos/quinnanya/3605597056/

ACCESS TO INFORMATION



Accessing Information, Old School







A Sampler of Scholarly Digital Collections

Text: <u>Perseus</u>, <u>Blake</u>, <u>Rossetti</u>, <u>Whitman</u>, ECHO, etc.



Images: Quilt Index, Ad Access



Maps: <u>NY Public Library</u>, <u>Rumsey Collection</u>

 Data: <u>Transatlantic Slave Trade Database</u>, <u>Open Context</u> (archaeology)



Video: <u>Shoah Visual History</u>

Audio: Historical Voices





DH's Impact on Access to Information

- Created authoritative digital collections
- Devised new editorial methods
- Developed standards (e.g. <u>TEI</u>)
- Experimenting with innovative methods of providing access
 - Crowdsourcing, e.g. <u>Transcribing Bentham</u>
 - Incorporating tools into archives, e.g.
 Cather Archive
 - Offering multiple views, e.g.
 Chymistry of Isaac Newton





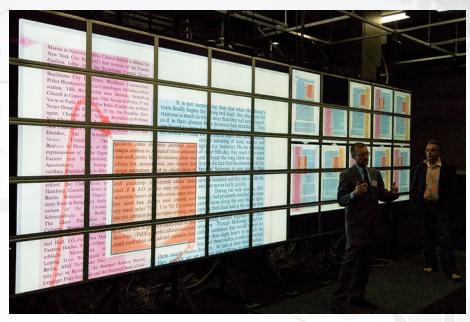
Impact of Whitman Archive

- Whitman scholars call it "indispensable"
- Greater attention to manuscript & textual study (editions other than 1855 & deathbed)
- Attention to contexts
- Broadens access
- Significant web hits:
 30,000+ visits, 143 countries
 (Sept 2011)



http://www.whitmanarchive.org/





http://www.flickr.com/photos/bw/2516698553/

MANIPULATING DATA: TOOLS AND METHODS



DIGGING ENTO DATA CHALLENGE

http://www.diggingintodata.org/

- Asks "Now that we have massive databases of materials used by scholars in the humanities and social sciences... what new, computationally-based research methods might we apply?"
- 1st round sponsored by NEH, NSF, JISC (UK), SSHRC (Canada)
- Collaborative, international teams from 2 or more countries
- 8 out of about 90 won grants: railroads, speech, letters, images, text, dynamic editoins



Libel Murder

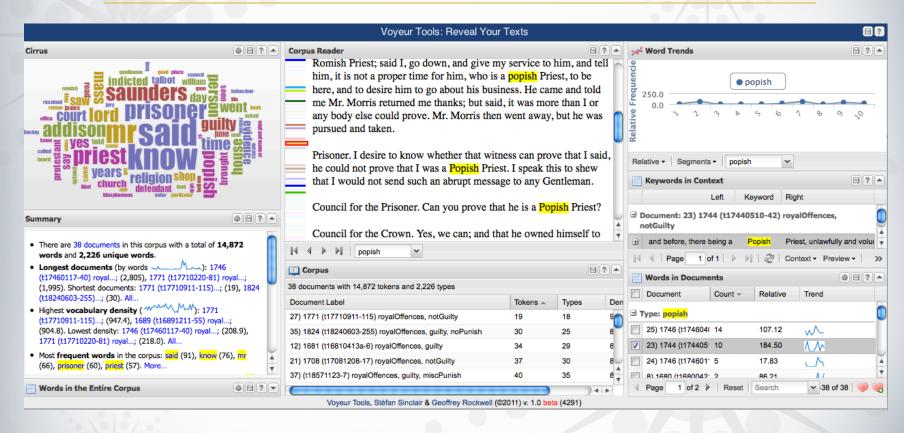
With Criminal Intent

http://criminalintent.org/

The Proceedings of the OLD BAILEY 🔼 London's Central Criminal Court, 1674 to 1913			
Home Search About The Proceedings Historical Background The Project Contact			
Old Bailey API Keyword(s) Defendant Gender Offence Category Offence Subcategory Victim Gender Verdict Category Verdict Subcategory Punishment Category Punishment Subcategory Date	< All >	Query URL Zip URL Send to Voyeur: 10 50 100 Offence Religious Subcategory Offences 38 hit(s).	Break Down by: Date 3 June 1824 8 Drill 13 April 1681 3 Drill 11 December 1689 2 Drill 11 December 1678 1 Drill 14 October 1680 1 Drill 10 May 1744 1 Drill 30 April 1679 1 Drill 21 April 1680 1 Drill 12 July 1683 1 Drill 23 November 1857 1 Drill 20 February 1771 1 Drill



Text Visualization Results



"make it possible for the 'ordinary working historian'... to integrate text mining and visualization into his or her day-to-day work" (Data Mining with Criminal Intent)



Understanding the Story

```
<TEI.2>
<text>
<body>
<div0 id="17440510" type="sessionsPaper" fragment="yes">
<div1 type="trialAccount" id="t17440510-42">
<xptr type="pageFacsimile" doc="174405100039"/>
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<interp inst="t17440510-42" type="year" value="1744"/>
<interp inst="t17440510-42" type="uri" value="sessionsPapers/17440510"/>
<interp inst="t17440510-42" type="date" value="17440510"/>
<join result="criminalCharge" id="t17440510-42-off213-c467" targOrder="Y" targets="t17440510-42-defend557"</p>
t17440510-42-off213 t17440510-42-verdict214"/>
293.
<persName id="t17440510-42-defend557" type="defendantName"> Andrew Morris
<interp inst="t17440510-42-defend557" type="surname" value="Morris"/>
<interp inst="t17440510-42-defend557" type="given" value="Andrew"/>
<interp inst="t17440510-42-defend557" type="gender" value="male"/> </persName> was indicted [for a misdemeanor ]
for that he, after the 25th of March in the year of our Lord * 1700, to wit, on the
<rs id="t17440510-42-cd211" type="crimeDate">4th day of March in the 17th year of our Soveriegn Lord George II</rs>
<join result="offenceCrimeDate" targOrder="Y" targets="t17440510-42-off213 t17440510-42-cd211"/>. within the
county of Middlesex, to wit, in the parish of
<place> id="t17440510-42-crimeloc212">St. Martins in the Fields</placeName></pl>
```



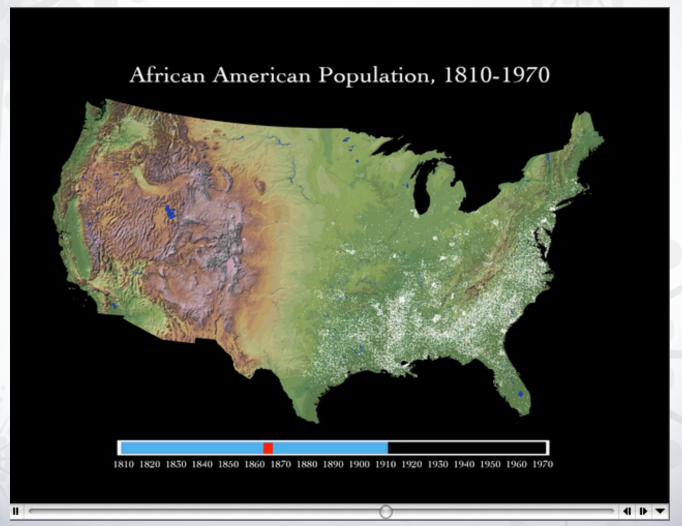
Why Mine Data?

"The Old Bailey, like the Naked City, has eight million stories. Accessing those stories involves understanding trial length, numbers of instances of poisoning, and rates of bigamy. But being stories, they find their more salient expression in the weightier motifs of the human condition: justice, revenge, dishonor, loss, trial. This is what the humanities are about. This is the only reason for an historian to fire up Mathematica or for a student trained in French literature to get into Java."

--Steve Ramsay, "Prison Art"

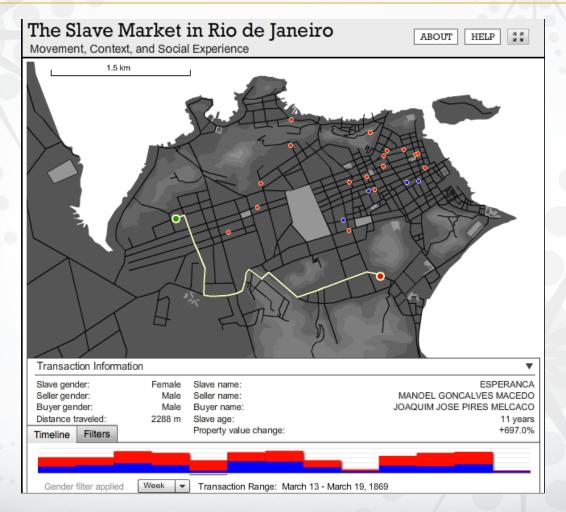


Mapping Time & Space: The Emancipation Project





Mapping the Slave Market in Rio





http://www.stanford.edu/group/spatialhistory/cgi-bin/site/viz.php?id=143&project_id=0

"Cultural Analytics: Mark Rothko Paintings on the 287-Megapixel HIPerSpace Wall at Calit2"





Try It Yourself: ImagePlot Software



HOME ABOUT PUBLICATIONS SOFTWARE PROJECTS CULTURAL ANALYTICS

ImagePlot visualization software: explore patterns in large image collections



ImagePlot

Overview | Download | Documentation | | Gallery | Video |















ESPAÑOL I PORTUGUÊS

Lev Manovich

Director, Software Studies Initiative

Benjamin Bratton

Associate Director, Software Studies Initiative

Jeremy Douglass

Postdoctoral Scholar, Calit2

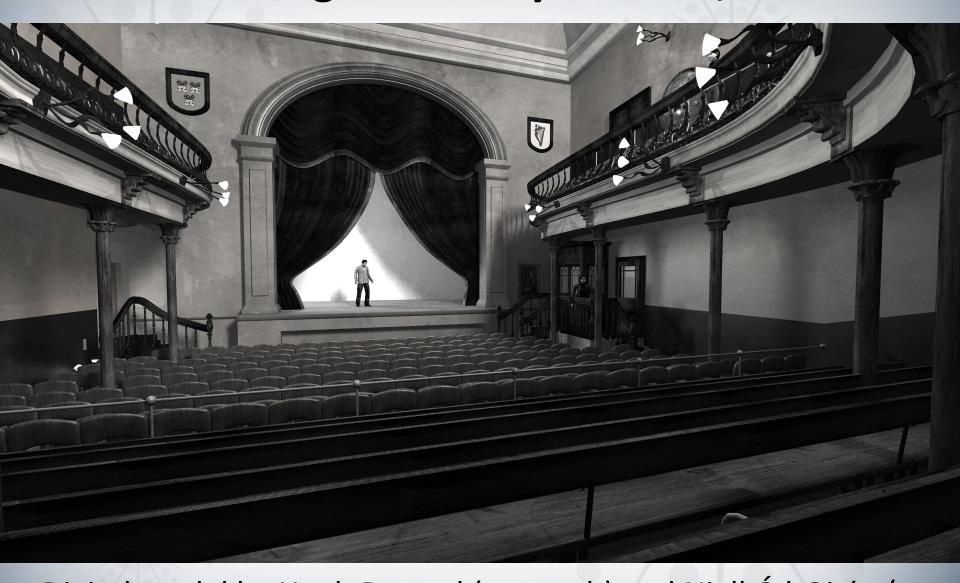
Elizabeth Losh

Director, Culture, Art,



http://lab.softwarestudies.com/p/imageplot.html

Modeling the Abbey Theatre, 1904



Digital model by Hugh Denard (research) and Niall Ó hOisín / Noho (modelling), 2011. http://blog.oldabbeytheatre.net/



http://www.flickr.com/photos/nichollsphotos/2906834393/

TRANSFORMING SCHOLARLY COMMUNICATION



The Limitations of Print

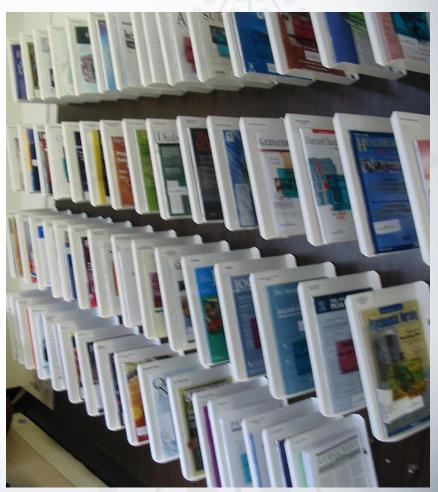
Can't...

- Search
- Hyperlink
- Include multimedia
- Foster conversation & community

Challenging to..

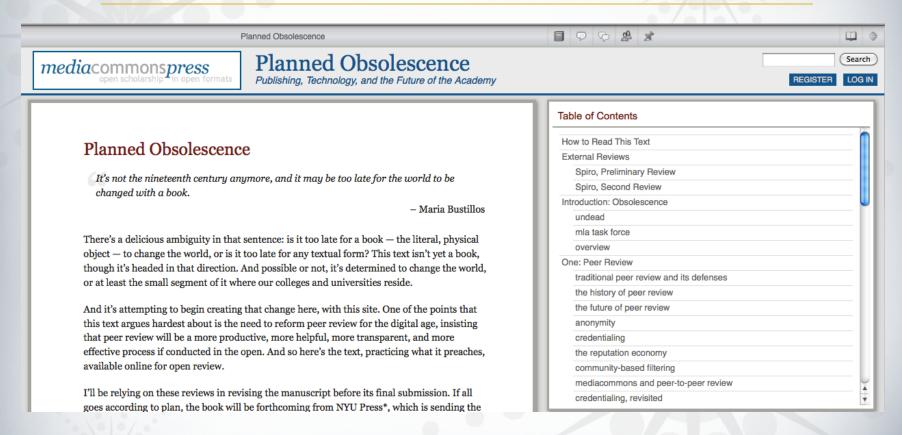
- Distribute
- Duplicate







Kathleen Fitzpatrick, *Planned Obsolescence*



http://mediacommons.futureofthebook.org/mcpress/plannedobsolescence/



Open Access Publishing

- Expand access to knowledge
- Make scholarly work more visible
- Enable information to be re-used and built upon







Participate in Open Peer Review: Writing History in the Digital Age





http://writinghistory.trincoll.edu/

"multimedia digital publication": Southern Spaces



In one photograph, a farmer plows a field with a mule while a train passes behind. Although the railroad arrived in Perry County more than forty years earlier, the juxtaposition of train and horse signifies the intrusion of the industrial capitalist age upon the region's agricultural heritage. The train transports the coal cut out of local mountains to U.S. industrial centers, leaving behind exploited people and land. In another image, children stand inside the doorway of their home, blocked from the porch by three battered planks while a broom rests against the door. The photograph conveys entrapment in poverty, passed to a new generation. Another photo shows that the movie Hard Man is being screened at the theatre in the town of Neon. Kentucky folklorist, D. K. Wilgus, who claimed the state "couldn't have asked for a more sympathetic interpreter than Cohen," praised the liner notes for "insight, sympathy, and analysis" and the photographs that "dramatically pointed out depressed conditions." Cohen, wrote Wilgus, "presents the core without the peeling."52

Cohen, Perry County, Kentucky, 1959.

The core of the record is not only Halcomb's music but his image. He does not appear in any of Cohen's small photographs contained in the booklet, but a photograph of him graces the record's cover, the same photograph that the *New York Times* printed with its review of *Mountain Music of Kentucky*. Halcomb became the new face of Kentucky mountain music as well as the face of

Listen to a clip of Granville Bowlin, "Charlie's Neat" Disc
Two, Mountain Music of Kentucky CD (Smithsonian
Folkways CD 40077), 1996.

the region's poverty, a force that Cohen believed gave the music its power. The former politician "Banjo" Bill Cornett, the housewife Martha Hall, the miner Lee Sexton, the farmer Granville Bowlin, the horse trainer Willie Chapman, the disc jockey George Davis – none of them possessed Halcomb's combination of intense, emotional singing with the hard-worn physical expression of poverty.



http://southernspaces.org/



http://services.pepperdine.edu/techlearn/tools/ipadresearch.htm

ENHANCING TEACHING & LEARNING



High Impact Practices (Kuh)

- First-Year Seminars and Experiences
- Common Intellectual Experience
- Learning Communities
- Writing-Intensive
 Courses
- Collaborative
 Assignments and
 Projects

- UndergraduateResearch
- Diversity/Global Learning
- Service Learning,
 Community-Based
 Learning
- Internships
- Capstone Courses and Projects



Syllabus Study: Common Features of DH Classes

- Student projects
- Collaboration
- Blogs & other social engagement
- Bringing together theory and practice

See "<u>Undergrad DH Projects</u>" for a growing list of examples



http://digitalscholarship.wordpress.com/ 2011/06/21/update-on-dh-educationpresentation/



Networked Classes: Looking for Whitman



"experiment in multi-campus digital pedagogy" (Jim Groom)

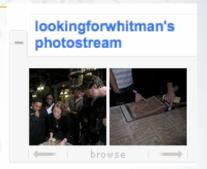


http://lookingforwhitman.org/

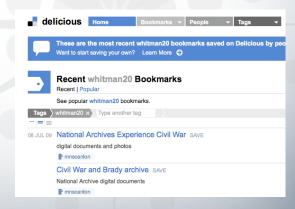
Web 2.0 Tools Used in Looking for Whitman

- Blogging (WordPress)
- YouTube
- Flickr
- delicious
- Twitter
- Collaborative annotation











"Student-Writers" to "Student-Authors"

"It is our experience that the closer we can bring our students to the real sources of knowledge — the ancient texts, the archaeological remains, the papyri and parchment — and the real reward of scholarship — the joy of producing a piece of work that one knows will be discovered and read with interest and pleasure by people we may never meet — the closer we can bring students to the experience of being true scholars, working beside other scholars, the more enthusiasm we find."

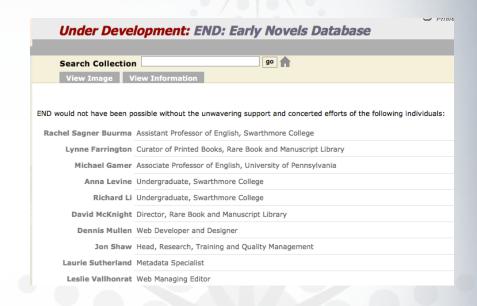
Furman & College of the Holy Cross, Homer Multitext



Blackwell, Christopher, and Thomas R. Martin. "Technology, Collaboration, and Undergraduate Research." *Digital Humanities Quarterly* 3, no. 1 (Winter 2009). http://digitalhumanities.org/dhq/vol/003/1/000024/000024.html.

Early Novels Database

- Extensive cataloging for U
 Penn collection of ~ 3000
 early novels
- Research by Swarthmore & Bryn Mawr undergrads
- Elements:
 - 1 week training
 - Students produce own blog posts & papers
- Benefits for students:
 - Work collaboratively
 - "Think like researchers"

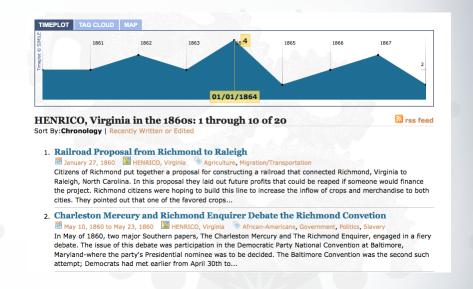


"The Early Novels Database: a Case Study" [NITLE Community Contribution Award]



History Engine: Tools for Collaborative Teaching & Research

- Student-written
 "episodes" about
 American history
- Research using primary sources
- Vetted
- Part of larger database







Scaffolding Projects: Wheaton Digital History Project

Collaborative Research Assignment

- Stage 1: Background Reading in Secondary Sources
- Stage 2: Transcription and Coding of Daybook Page Spreads
- Stage 3: Writing and Editing Episodes for the History Engine
- Stage 4: Writing a Paper Based on Primary Sources



Impact of Student Projects



- "How do we make what we do in the classroom valuable to those outside it?" (student at <u>Re:humanities</u>)
- "We're really participating in something that's happening right now..." (<u>Anna Levine</u>, Swarthmore)
- "This must be what it feels like to be doing real scholarship" (<u>Jen Rajchel</u>, Bryn Mawr)





http://www.flickr.com/photos/quinnanya/4026547481/

REVITALIZING THE HUMANITIES



How DH Can Help Revitalize the Humanities

- Help make humanities information widely available
- Introduce innovative methods
- Help students develop skills, knowledge and disposition
- Cultivate an informed, critical perspective on technology & culture
- Engage with the public
- Demonstrate the importance of the humanities:
 4Humanities

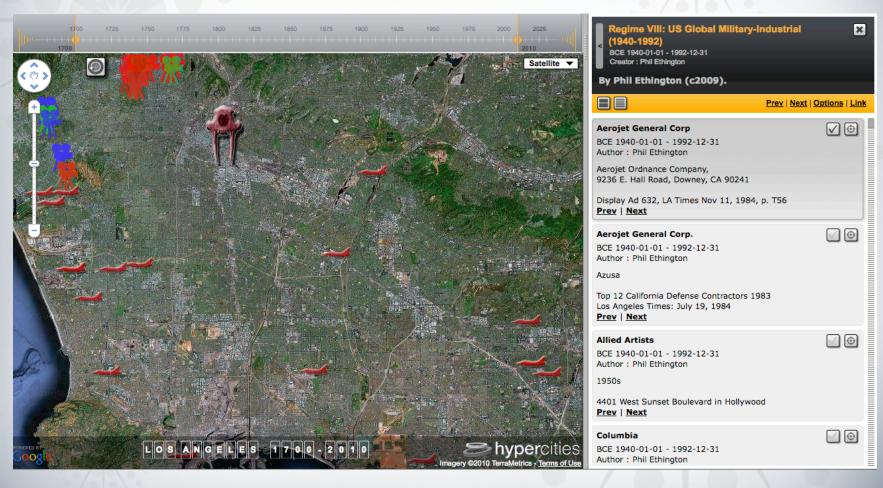


Making a Public Impact: <u>Seattle Civil Rights and Labor History</u>

- Students contributed oral histories, digital images & documents to site about history of civil rights in Seattle
- Used in public education & in education of police & other city employees
- Cited in brief for Supreme Court case on segregation
 & public schools
- Helped to lead WA governor to sign a new law that facilitates neighborhoods eliminating restrictive racial covenants



Participatory Scholarship: HyperCities





http://hypercities.com/



THATCamp Paris
http://www.flickr.com/photos/revuesorg/4626510454/

WHY (OR WHY NOT) THE DIGITAL HUMANITIES?



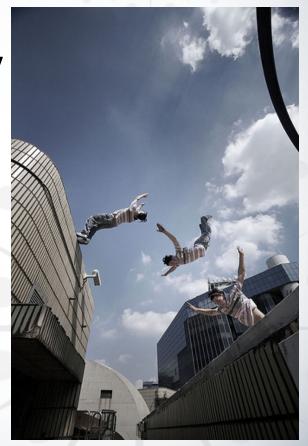
NITLE: Why Do Digital Humanities at Liberal Arts Colleges?

- Foster undergraduate research
- Use effective pedagogy, especially active and collaborative learning, project based & applied learning
- Spark understanding of the digital environment & how to exercise liberal arts abilities (critical thinking, writing, etc.) in that context
- Support interdisciplinary work & other types of collaboration
- Revitalize the humanities



Challenges of Doing Digital Humanities

- Getting or creating data
- Data's <u>incompleteness</u>, variability
- Copyright
- Funding
- Academic culture
- Tenure & promotion policies
- Gaining the skills
- Finding collaborators
- Finding or developing tools
- Preservation & sustainability



http://www.flickr.com/photos/jonlucas/204213403/



How to "Do" Digital Humanities

- Determine what goals or questions motivate you
- Participate in the DH community
 - Attend a <u>THATCamp</u> & other <u>DH conferences</u>
 - Follow & interact with DH folks on Twitter
 - Read and respond to blogs, e.g. <u>HASTAC</u>
- Study examples and find out how they work: projects, standards, tools, best practices
 - Ask a question on <u>DH Questions & Answers</u>
- Play and experiment
 - Find tools via Digital Research Tools (DIRT) wiki
 - Discover new tools & approaches via <u>ProfHacker</u>



More on How to Do Digital Humanities

- Pursue training
 - Digital Humanities Summer Institute; NEH Seminars
 - Online tutorials, e.g. <u>Tooling Up for DH</u>,
 <u>Spatial Humanities</u>, <u>TEI by Example</u>
- Find collaborators
 - Librarians, IT staff, students; other institutions
- Where possible, adopt/adapt existing tools
 - Omeka, WordPress, Google Maps, TaPOR, etc.
- Plan a pilot project
 - Start small



NITLE (National Institute for Technology & Liberal Education) Can Help

- Founded in 2001 by Andrew W. Mellon Foundation
- Digital Humanities is one of NITLE's key strategic areas
 - Co-sponsors Digital Humanities Commons to facilitate collaborations: web site, MLA workshop
 - Offers workshop on integrating DH into undergrad curriculum
 - Supports information sharing & community building: blog posts, seminar series, Twitter
 - Monitors DH developments, e.g. DH education
- Network members connected to larger conversations



Download This Presentation

Visit Digital Scholarship in the Humanities

http://digitalscholarship.wordpress.com/

