

Outline:

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I. Introduction

The Digital Humanities (Slides #1-7)

Alliance of Digital Humanities Organizations <http://adho.org>

Canadian Society for Digital Humanities / Société Canadienne des Humanités Numériques <http://csdh-schn.org>

The Association for Computers and the Humanities <http://ach.org>

Australasian Association for Digital Humanities <https://aa-dh.org>

CenterNet: An International Network of Digital Humanities Centers <http://dhcenternet.org>

UCL Centre for Digital Humanities: Melissa Terras *Quantifying Digital Humanities*

<http://www.ucl.ac.uk/infostudies/melissa-terras/DigitalHumanitiesInfographic.pdf>

The Getty Foundation *Digital Art History*

<http://www.getty.edu/foundation/initiatives/current/dah/index.html>

C. Richard Johnson, Jr. *Computational Art History, 2012-13 Research Activity Report*, Cornell University; January 7, 2014 <https://people.ece.cornell.edu/johnson/ResActRep12-13.pdf>

Doing, Park, and Jr C. Richard Johnson. "On Applying Signal Processing to Computational Art History: An Interview." *International Journal for Digital Art History* 0, no. 1 (June 26, 2015).

<https://doi.org/10.11588/dah.2015.1.21637>. <https://journals.ub.uni-heidelberg.de/index.php/dah/article/viewFile/21637/15410>

Von Sonnenburg, Hubert, Walter Liedtke, Carolyn Logan, Nadine M. Orenstein, and Stephanie S. Dickey *Rembrandt/Not Rembrandt in The Metropolitan Museum of Art: Aspects of Connoisseurship, Volumes I and II* (1995)

https://www.metmuseum.org/art/metpublications/Rembrandt_Not_Rembrandt_in_The_Metropolitan_Museum_of_Art_Aspects_of_Connoisseurship_Volumes_I_and_II (Images: *see*

<https://books.google.com/books?id=DySoV5kFMV0C&printsec=frontcover&hl=en#v=onepage&q&f=false>)

Lantern Slides / Brown University

https://www.brown.edu/Departments/Joukowsky_Institute/resources/lanternslides/2513.html

35mm Slides at Oxford University *History of Art - Visual Resources Centre: Slide Collections*

<https://libguides.bodleian.ox.ac.uk/visualresourcescentre/slidecollections>

II. Databases and documenting works of art and collections
Databases and Content Management Systems (Slides #8 – 28)

Drucker, Johanna. "Is There a 'Digital' Art History?" *Visual Resources* 29, no. 1–2 (June 1, 2013): 5–13.
<https://doi.org/10.1080/01973762.2013.761106>, Page 12

Fletcher, Pamela. "Reflections on Digital Art History." *CAA Reviews*, 2015, 7–13.
<https://doi.org/10.3202/caa.reviews.2015.73>.

The Morgan Library and Museum <https://www.themorgan.org/collection>

Rembrandt Self-Portrait, Metropolitan Museum of Art
<https://www.metmuseum.org/art/collection/search/437397>

Museum of Modern Art – github site: Collections Data (*Shown here: tables on artists and artworks.*)
<https://github.com/MuseumofModernArt/collection>

Omeka: <https://omeka.org> Source:
<https://creately.com/diagram/example/huvcnyyq1/Omeka%20Database%20Schema>

Lucy R. Lippard and John Chandler (1967-68) *The Dematerialization of Art* http://www.ccyte.com/OccuLibrary/Texts-Online/Lippard-Chandler_The_Dematerialization_of_Art.pdf

Dia:Beacon Museum *Wall Drawing #1085: Drawing Series–Composite, Part I–IV, #1–24, A+B, 1968, 1968* by Sol LeWitt <https://www.diaart.org/collection/collection/le Witt-sol-wall-drawing-1085-drawing-seriescomposite-part-ii-iv-124-ab-1968-1968-2003-168>

Untitled (Shark), 1984, Acrylic and map Collage on fiberglass 51 x 22 x 26 inches. Courtesy of the Estate of David Wojnarowicz and P.P.O.W, New York from *David Wojnarowicz Knowledge Base*
[https://cs.nyu.edu/ArtistArchives/KnowledgeBase/index.php/File:Untitled_\(shark\)_15x_1984.jpg](https://cs.nyu.edu/ArtistArchives/KnowledgeBase/index.php/File:Untitled_(shark)_15x_1984.jpg)

Installation view, David Wojnarowicz: Installation Room, Gracie Mansion, November 1984. Wojnarowicz Papers, Fales Library, Slidesheet 80
https://cs.nyu.edu/ArtistArchives/KnowledgeBase/index.php/File:Installation_View_BurningChild_1984.jpg

Joan Jonas, 1973, *Organic Honey's Vertical Roll*, Photo: Beatrice Heylinger. Artist Archives Initiative
<http://artistarchives.hosting.nyu.edu/Initiative/the-joan-jonas-knowledge-base/>

Joan Jonas, New York Performances, *Joan Jonas at MoMA* <https://www.moma.org/artists/2930>

Plone <https://plone.org>

Drupal <https://www.drupal.org>

WordPress <https://wordpress.org>

FileMaker <https://www.filemaker.com>

Omeka <https://omeka.org>

CollectionSpace <http://www.collectionspace.org>

Gallery Systems ("TMS" – *The Museum System*) <https://www.gallerysystems.com>

MediaWiki <https://www.mediawiki.org/wiki/MediaWiki>

MediaWiki at SF-MoMA <https://blog.wikimedia.org/2016/07/07/sfmoma-mediawiki/>

Woman with a Hat (Matisse) (Q1437492) <https://www.wikidata.org/wiki/Q1437492>

Sample SPARQL queries (Rijksmuseum)

https://www.wikidata.org/wiki/Wikidata:WikiProject_sum_of_all_paintings/Collection/Rijksmuseum

ResearchSpace <https://www.researchspace.org> ; ResearchSpace Publications
<https://www.researchspace.org/publications.html#> *Varley Inference on Style Similarity*
<https://demo.researchspace.org/resource/?repository=assets&uri=http%3A%2F%2Fwww.researchspace.org%2Fresource%2FMyImages%2F359306055911315592>

Linked Conservation Data <https://www.ligatus.org.uk/project/linked-conservation-data>

Wikidata:Flemish art collections, Wikidata and Linked Open Data
https://www.wikidata.org/wiki/Wikidata:Flemish_art_collections,_Wikidata_and_Linked_Open_Data
Jan van Eyck (Q102272) <https://www.wikidata.org/wiki/Q102272>

Rhizome <http://rhizome.org> ; Rhizome Indexes <https://catalog.rhizome.org/w/Indexes> and Indexes/File Formats https://catalog.rhizome.org/w/Indexes/File_Formats

III. Working with data: large datasets, images as data and data visualization

Working with Data (Slides #29 – 53)

Elijah Meeks, “More Networks in the Humanities or Did Books have DNA?” Digital Humanities Specialist (blog), Stanford University, December 6, 2011: <https://dhs.stanford.edu/visualization/more-networks/>
Cited in:

Fletcher, Pamela. “Reflections on Digital Art History.” *CAA Reviews*, 2015, 7–13.
<https://doi.org/10.3202/caa.reviews.2015.73>.

A. Text Analysis

“Vincent van Gogh The Letters.” <http://www.vangoghletters.org/vg/> and <http://vangoghletters.org/vg/letters/let002/letter.html>

Text Encoding Initiative: <https://tei-c.org>

TEI: Edvard Munch’s Writings <http://www.tei-c.org/activities/projects/edvard-munchs-writings/>
English edition of a selection of Munch's texts <https://www.emunch.no/welcome.xhtml>

Voyant-Tools: for textual analysis data visualization in a number of languages: <https://voyant-tools.org>

For Python Programmers: <http://www.nltk.org>

MALLET *Machine Learning for Language Toolkit* <http://mallet.cs.umass.edu>

B. Spatial Analysis

Mapping Titian <http://www.mappingtitian.org>

Museum of Modern Art. Object:Photo <https://www.moma.org/interactives/objectphoto/#home>

Pleiades <https://pleiades.stoa.org>

C. Network Analysis

Museum of Modern Art: *Inventing Abstraction 1910-1925*

<https://www.moma.org/interactives/exhibitions/2012/inventingabstraction/?page=connections> and
<https://www.moma.org/interactives/exhibitions/2012/inventingabstraction/?artist=7>

D. Image Analysis

C. Richard Johnson, Jr. *Computational Art History, 2012-13 Research Activity Report*, Cornell University; January 7, 2014 <https://people.ece.cornell.edu/johnson/ResActRep12-13.pdf>

The Friedberg Genizah Project *Identifying Join Candidates in the Cairo Genizah*

<http://pr.genizah.org/professionalPapers/IJCinGeniza.pdf> and information on the research platform
http://pr.genizah.org/TheResearchPlatform_New.aspx#Digital_Images

Metropolitan Museum of Art *Van Gogh Irises and Roses*

<https://www.metmuseum.org/exhibitions/listings/2015/van-gogh#bibliography>

Srinivasan, R., C. Rudolph, and A. K. Roy-Chowdhury. “Computerized Face Recognition in Renaissance Portrait Art: A Quantitative Measure for Identifying Uncertain Subjects in Ancient Portraits.” *IEEE Signal Processing Magazine* 32, no. 4 (July 2015): 85–94. <https://doi.org/10.1109/MSP.2015.2410783>.

Google Arts & Culture | Experiments: *Curator Table* <https://experiments.withgoogle.com/curator-table>
Search Term: *Vincent Van Gogh [Artist]*

Lior Shamir. “Computer Analysis Reveals Similarities between the Artistic Styles of Van Gogh and Pollock.” *Leonardo*, vol. 45, no. 2, 2012, p. 149. EBSCOhost, doi:10.1162/LEONpass:[_]a_00281.

Matthijs IJssink, Jos Koldeweij, Ron Spronk, Luuk Hoogstede, Robert G. Erdmann, Rik Klein Gotink, Hanneke Nap, Daan Veldhuizen, *Hieronymus Bosch, Painter and Draughtsman, Catalogue Raisonné*, Brussels (Mercatorfonds) 2016, ISBN 978-94-6230-113-9. – and - <http://boschproject.org/#/>

Photographing the Unicorn Tapestries <https://www.newyorker.com/magazine/2005/04/11/capturing-the-unicorn?currentPage=all>

International Image Interoperability Framework <https://iif.io>

Gallica <https://gallica.bnf.fr/accueil/en/content/accueil-en?mode=desktop>

SAT Taishozo Image DB <https://dzkings.lu-tokyo.ac.jp/SATi/images.php>

Yale Center for British Art <https://britishart.yale.edu>

IV. Computer- and software-based art

Computer- and Software-Based Art (Slides #54 - 63)

Martin Wattenberg, 2002 *cited in: Processing* by Casey Reas and Ben Fry, 2007: MIT Press, Cambridge, Massachusetts, Page 162

Mark Napier *net.flag* (2002) Solomon R. Guggenheim Museum <https://www.guggenheim.org/artwork/10703>

John F. Simon Jr. *Unfolding Object* (2002) Solomon R. Guggenheim Museum:
<https://www.guggenheim.org/artwork/10702>

Brandon by Shu Lea Cheang (1998) Solomon R. Guggenheim Museum
<https://www.guggenheim.org/artwork/15337>

Sixth Light by Paul Chan, Solomon R. Guggenheim Museum 2007
<https://www.guggenheim.org/artwork/20625>

Siebrren Versteeg, *Untitled Film II* (2006) Solomon R. Guggenheim Museum
<http://thecreatorsproject.vice.com/blog/saving-computer-based-art-conservation-lab>

Rafael Lozano-Hemmer *33 Questions Per Minute* (2000) Museum of Modern Art
<https://www.moma.org/collection/works/102431?locale=en>

Philip Worthington *Shadow Monsters* (2004) MoMA
<https://www.moma.org/collection/works/110196?locale=en>

Martin Wattenberg with Marek Walczak *Thinking Machine* (2003) Museum of Modern Art
<http://www.bewitched.com/chess.html>

Jonathan Harris and Sep Kamvar *I Want You To Want Me* (2007) MoMA
<https://www.moma.org/collection/works/110269?locale=en>

Leo Villareal *Field* (2007) Museum of Modern Art
<https://www.moma.org/collection/works/117948?locale=en>

The Whitney Museum of American Art *Programmed: Rules, Codes, and Choreographies in Art, 1965–2018* on exhibition 9/28/2018 – 4/14/2019 <https://whitney.org/exhibitions/programmed>

Casey Reas *{Software} Structures, Sol LeWitt Wall Drawing Number 358*, 2004/2016
<https://whitney.org/exhibitions/programmed?section=1#exhibition-artworks>

Bernardo Strozzi, *Eratosthenes teaching in Alexandria* (1635), Musée des Beaux-arts de Montréal https://commons.wikimedia.org/wiki/File:1959_1225_IN2.jpg

BRANDON by Shu Lea Cheang
Landing page at the Solomon R. Guggenheim Museum
Website: <https://www.guggenheim.org/artwork/15337>
Blogpost about the restoration: <https://www.guggenheim.org/blogs/checklist/restoring-brandon-shu-lea-cheangs-early-web-artwork>
Brandon: <http://brandon.guggenheim.org>

UNFOLDING OBJECT by John F. Simon, Jr.
Landing page at the Solomon R. Guggenheim Museum Website:
<https://www.guggenheim.org/artwork/10702>
Blogpost about the restoration: <https://www.guggenheim.org/blogs/checklist/the-guggenheim-restores-john-f-simon-jr-early-web-artwork-unfolding-object>
Unfolding Object: <http://unfoldingobject.guggenheim.org>

V. Where do we go from here?
(Slides #64 – 71)

New York University, College of Arts & Science, Department of Art History, Spring 2019 Courses
<http://as.nyu.edu/arthistory/resources/FacultyOH.html>
<http://as.nyu.edu/content/dam/nyu-as/artHistory/documents/S19%20Courses.pdf>

Artist interview with Mark Napier in the Guggenheim Media Conservation Lab. Guggenheim conservation staff, NYU's Deena Engel, and her computer science students discuss net flag (2002) with the artist, present the findings of their source code analysis, and explore future preservation and access scenarios.

<https://www.guggenheim.org/blogs/checklist/how-the-guggenheim-and-nyu-are-conserving-computer-based-art-part-2>

How the Guggenheim Museum and NYU Are Conserving Computer-Based Art – Parts 1 and 2

<https://www.guggenheim.org/blogs/checklist/how-the-guggenheim-and-nyu-are-conserving-computer-based-art-part-1> and <https://www.guggenheim.org/blogs/checklist/how-the-guggenheim-and-nyu-are-conserving-computer-based-art-part-2>

New York University, Institute of Fine Arts, Conservation Center Program in Time-Based Media Art

<https://www.nyu.edu/gsas/dept/fineart/conservation/time-based-media.htm>

Museum-Academic Collaboration:

Northwestern Center for Scientific Studies in the Arts

<https://scienceforart.northwestern.edu/people/profiles/casadio-francesca.html>

The Art Institute of Chicago <https://www.artic.edu>

Building Community:

Digital Art History Society <https://digitalarthistorysociety.org> -

To Join: <https://digitalarthistorysociety.org/join-us/>

Building and Utilizing Data Resources

The Metropolitan Museum of Art Open Access CSV <https://github.com/metmuseum/openaccess>

The Museum of Modern Art (New York) GitHub site <https://github.com/MuseumofModernArt/collection>

Journals:

International Journal for Digital Art History <http://www.dah-journal.org>

ACM Journal on Computing and Cultural Heritage <https://jocch.acm.org>

The Journal of Interactive Technology and Pedagogy - Issue Twelve: <https://jitp.commons.gc.cuny.edu/table-of-contents-issue-twelve/>

The Electronic Media Review <http://resources.conservation-us.org/emg-review/>

In the Metropolitan Museum of Art in New York City:

Between Earth and Heaven, Artist:El Anatsui (Ghanaian, born Anyako, 1944)

<https://www.metmuseum.org/art/collection/search/319872>

Lilacs in a Window (Vase de Lilas a la Fenetre)

Artist:Mary Cassatt (American, Pittsburgh, Pennsylvania 1844–1926 Le Mesnil-Théribus, Oise)

<https://www.metmuseum.org/art/collection/search/13758>

Tall Figure Artist:Alberto Giacometti (Swiss, Borgonovo 1901–1966 Chur)

<https://www.metmuseum.org/art/collection/search/492826>

Hippopotamus ("William") Period:Middle Kingdom, Dynasty:Dynasty 12

<https://www.metmuseum.org/art/collection/search/544227>

Digital Art History Bibliography with Prof. Pepe Karmel and Rebecca Ann Salem: (*DRAFT!*)

https://www.zotero.org/groups/2270307/digital_art_history_pk_copy

Note: You can download the Zotero panel interface at <https://www.zotero.org>

Reflecting on Digital Art History, Computational Art History & Beyond
GCI Science Lecture Series: March 21, 2019
Deena Engel, Department of Computer Science
Courant Institute of Mathematical Sciences, New York University

Deena Engel
Clinical Professor
Director, Program in Digital Humanities and Social Science
Co-VP of Outreach, Digital Art History Society <https://digitalarthistorysociety.org>
Department of Computer Science
Courant Institute of Mathematical Sciences
New York University
251 Mercer Street, Room 404
New York, New York 10012
Tel. 212-998-3131
Email deena.engel@nyu.edu
Website: <http://cs.nyu.edu/~deena/>