Keywords to Semantics

MediaWiki and the History of Early American Landscape Design

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Keywords to Semantics
MediaWiki and the History of Early American Landscape Design (HEALD)

1. HEALD and MediaWiki

2. Keywords

3. Semantics (SMW)

4. What’s next?
1. HEALD and MediaWiki, 2012–2022

“The Keywords title was inspired by Raymond Williams’s book *Keywords: A Vocabulary of Culture and Society* [1976] …both works share a cultural rather than etymological approach to language.”

“The HEALD database resource…estABLishes an historically documented vocabulary for describing landscape and garden features that arises out of contemporaneous primary materials.”

1. HEALD and MediaWiki, 2012–2022

“The grounds of the Cemetery have been laid out with intersecting avenues are curved and variously winding in their course, so as to be an arragement, the greatest economy of the land is produced, combining Over the more level portions, the avenues are made twenty feet wide.

2. David Charles Sloane provides a useful chart of the characteristics of location, grave marker style and material, type of manager of the cem examples. See David Charles Sloane, The Last Great Necessity: Ceme Hopkins University Press, 1991), 4–5, view on Zotero.

Easily [[interlinked]] content, in an extensible, open source environment

Thomas Chambers, Mount Auburn Cemetery, mid-19th century. National Gallery of Art, Washington DC, Gift of Edgar William and Bernice Chrysler Garbisch, 1958.5.1
1. **HEALD and MediaWiki, 2012–2022: Acknowledgments**

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2. Keywords: a HEALD reader’s journey – Keywords, Places, People

The *History of Early American Landscape Design* digital resource is an inquiry into the language of early American landscape aesthetics and garden design in the colonial and national periods. Thousands of texts are combined with a corpus of more than 1700 images in order to trace the development of landscape and garden terminology from British colonial America to the mid-19th century. By placing terms in relation to representations in the visual record, the project clarifies their use and meanings, providing for well-informed histories of designed landscapes in early America.

The project is organized by 100 keywords, supported by 100 featured places and historical figures. Without claiming to be comprehensive, this project models an approach to the study of landscapes and gardens that helps scholars consider past cultural conditions, uncover former appearances, and better understand the experiences and meanings of designed environments as they were built, and also as they were imagined.

By placing terms in relation to representations in the visual record, the project clarifies their uses and meaning.
2. Keywords: a HEALD reader’s journey – Keywords, Places, People

• 105 keywords; 51 people; 41 places
• 228 content pages
• 1,743 images
• 185 internal links to a single page (Walk)
• 478 revisions of a single page (Alley) [created 21 March 2012]
• 55,000+ unique pageviews in last year
3. Semantics: Digital Approach

How do we combine art historical investigation and information technology?

*HEALD*’s digital approach uses the potential of the digital medium to augment access and foster investigation. Data should not be used as facts and/or as evidence divested of its context. Data sets are always a result of extraction, selection, and standardization, which at times leads to a reductive scenario of the material made available. Through its digital approach, *HEALD* invites users to explore the network of keywords, places, and people by enhancing the navigation and exploration of its content in context. By drawing a distinction between information and data, and by encouraging a contextualized data analysis, *HEALD* offers the opportunity to search, sort, and parse the data in connection with the historical condition from which it emerges.
“…we believe that art historians and technologists occupy distinct problem spaces.”

DOI: [https://doi.org/10.11588/dah.2018.3.34297](https://doi.org/10.11588/dah.2018.3.34297)
“…we believe that art historians and technologists occupy distinct problem spaces.”

A Role-Based Model for Successful Collaboration in Digital Art History

Tracey Berg-Fulton, Alison Laugmead, Thomas Lombardi, David Newbury, and Christopher Nygren

Abstract: Sustained dialogue and collaborative work between art historians and technologists have a great deal to offer both fields of inquiry. In this paper, we propose that effective collaborations in Digital Art History require more than just a humanist and a technologist to succeed. Indeed, we find that there are four different roles that need to be filled: Humanist, Technologist, Data Steward, and Catalyst. Our approach is predicated on a few foundational convictions. First, we believe that art historians and technologists occupy distinct problem spaces. As we will outline, although these realms are distinct they are not of necessity in opposition to one another. Second, we bring to the fore essential questions about the status and function of data that must be addressed by the collaborators: what sort of data are being used? What counts as effective and compelling analysis of this data? Third, we recognize that there are certain structural impediments to collaboration, such as different reward structures and motivations. Finally, we assert that each of the participants must have a deep commitment to their particular engagement with the project, which requires sustained effort and the maintenance of disciplinary respect. We firmly believe that the most effective of these projects will not be based on technological solutionism, but rather will be founded in the most humanistic of tools: empathy and respect.

Keywords: Digital Art History, Collaborations, Interdisciplinary Work, Interdisciplinary Respect

Figure 1: A Model of the Collaborative Universe in the Digital Humanities, based on a figure from Brian Cantwell Smith, “Limits of Correctness” (1985).

Berg-Fulton, Langmead, Lombardi, Newbury, and Nygren,
“A Role-Based Model for Successful Collaboration in Digital Art History,”
DOI: https://doi.org/10.11588/dah.2018.3.34297
The Digital Experience

Semantic web

Relationships

Images
Dear PDF reader: this is exported from a PowerPoint. This slide demonstrated the look and feel of scrolling down a page using an embedded video. This reading experience uses a StickyTOC, and a modal (in-page) image viewer.

https://heald.nga.gov/mediawiki/index.php/Robert_Mills
3. **Semantics**: Relationships, Information, and Reference for image file

Robert Mills, Alternative plan for the grounds of the National Institution, 1841

**File:0034.jpg**

**About this image**

<table>
<thead>
<tr>
<th>Relationships</th>
<th>Information</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place</td>
<td>Creator</td>
<td>Date of Publication</td>
</tr>
<tr>
<td>People</td>
<td>Robert Mills</td>
<td>Reference Title</td>
</tr>
<tr>
<td></td>
<td>Robert Mills</td>
<td>Volume</td>
</tr>
<tr>
<td>Keyword relationships</td>
<td>Date</td>
<td>Edition</td>
</tr>
<tr>
<td>Inscribed: Canal</td>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>Inscribed: Picturesque</td>
<td>Inscription</td>
<td>Figure</td>
</tr>
<tr>
<td>Associated: Basin</td>
<td>Medium</td>
<td>Repository</td>
</tr>
<tr>
<td>Associated: Botanic garden</td>
<td></td>
<td>Zotero ID</td>
</tr>
<tr>
<td>Associated: Fountain</td>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Associated: Hothouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated: Plot/Plat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated: Square</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated: Walk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated: Wall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attributed: Bed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attributed: Gardensque</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attributed: Summerhouse</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Download an RDF export

Robert Mills, Alternative plan for the grounds of the National Institution, 1841. National Archives and Records Administration, College Park, Maryland.

Size of this preview: 634 × 600 pixels. Other resolution: 1,200 × 1,135 pixels.

Original file (1,200 × 1,135 pixels, file size: 378 KB, MIME type: image/jpeg)

Robert Mills, Alternative plan for the grounds of the National Institution, 1841.
National Archives and Records Administration, College Park, Maryland.

Size of this preview: 634 x 600 pixels. Other resolution: 1,200 x 1,135 pixels.
Original file (1,200 x 1,135 pixels, file size: 378 KB, MIME type: image/jpeg)

Keywords to Semantics: MediaWiki and the History of Early American Landscape Design
3. Semantics: Image Collection

Image Collection

History of Early American Landscape Design: Image Collection

<table>
<thead>
<tr>
<th>Date</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1580</td>
<td></td>
<td></td>
<td></td>
<td>1870</td>
</tr>
<tr>
<td>1590</td>
<td>1653</td>
<td>1725</td>
<td>1798</td>
<td>1870</td>
</tr>
</tbody>
</table>

Keyword

Select a filter value

Collection filter

- Has person
- Has place

or and

Reset all filters

Keywords to Semantics: MediaWiki and the History of Early American Landscape Design
3. Semantics: Image Collection

Keywords to Semantics: MediaWiki and the History of Early American Landscape Design
3. Semantics: Keyword Relationships

Extension: Page Forms

Keyword relationships:

- Inscribed
- Associated
- Attributed
3. Semantics: Relationships

Keywords to Semantics: MediaWiki and the History of Early American Landscape Design

Robert Mills, Alternative plan for the grounds of the National Institution, 1841

has property: Person

has property: Creator

has property: Keyword

has property: Keyword_relationship

has property: Date

has property: Circle

has property: Concentration

has property: Encyclopedia

has property: Alternative plan

has property: Inscribed

has property: Associated

has property: Square

has property: Attributed

has property: Bed
3. Semantics: Information

Information

- **Creator:** Robert Mills
- **Present:** □
- **Date:** 1841
- **Circa:** □
- **Concurrence:** Exact ▼
- **Questionable:** □
- **Enter a range:** □
- **Title:** Alternative plan for the grounds of the Na
- **Inscription:**
- **Medium:**
- **Dimensions:**
- **Image Title:** Robert Mills, Alternative plan for the group

Showcase

- **Main category:** Designate image as representative of one of the main categories (Keywords, Places, People)
- **Essay page:** □ Designate image as representative of an essay

Requirements: MediaWiki 1.30+, PageForms, PageExchange, SemanticMediaWiki

**https://github.com/NationalGalleryOfArt/mediawiki**

### DateStructure package

The package allows to store a complex date structure in template fields. The package includes the following pages:

- **Form:Date** - a partial form to be transcluded into other forms
- **Template:Date** - a template that renders a single date item
- **Template:DateFormatDate** - a template that formats a date

The **Date** partial form includes the following fields:

- **Present** - The flag indicates the date is present date
- **Date** - The date, can be a partial date like Year only, or month & year only
- **Circa** - Boolean to indicate that date may be fuzzy
- **Concurrence** - Can be set to: Exact, Before, After
- **Questionable** - Can be checked to mark the date as questionable

**https://github.com/NationalGalleryOfArt/mediawiki-pages-Dates**
3. Semantics: Reference

Reference

Present □
Date □
Circa □
Concurrence Exact □
Questionable □
Enter a range □

Reference Title

Volume:
Edition:
Page:
Figure:
Repository:
Reference ID:

Text field:

Robert Mills, Alternative plan for the grounds of the National Institution, 1841. National Archives and Records Administration, College Park, Maryland.

Reference

Date of Publication
1728
Reference Title
New Principles of Gardening, or The laying out and planting parterres, groves, wildernesses, labyrinths, avenues, parks, &c.

Volume

Edition

Page

Figure
pl. XI

Repository
Dumbarton Oaks Research Library and Collection, Washington, D.C.

Zotero ID
AN26GF5X

Zotero citation manager

→ HEALD public group library
Knowledge graphs from Semantic search

- Decide on a format and then create a graph or timeline visualization of keyword and image relationships from HEALD (heald.nga.gov)
- On-Wiki or off? RDF Export files?

Example: Semantic MediaWiki Graph Extension
4. What’s next? Open / Linked Data

**Open Data at the National Gallery**

Our open data program is a natural extension of the National Gallery’s mission: to welcome all people to explore and experience art, creativity, and our shared humanity.

We aim to make as much data as possible available to as many people as possible, in support of research, teaching, and personal enrichment. We believe that increased access to factual data about works of art fuels knowledge, scholarship, and innovation, inspiring uses that transform the way we discover and understand the world of art.

You can download the dataset of factual art object information for the 130,000+ artworks and artists in our collection from Github. We release this data under a Creative Commons 0 (CC0) license. This means that you can download the full dataset, free of charge, and without seeking our permission.

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**Download our Data**

Download our public domain dataset of factual art object information for the 130,000+ artworks and artists in the National Gallery’s collection from Github.

Visit Github

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**The National Gallery of Art, Washington [edit]**

The National Gallery of Art, Washington, was founded as a gift to the nation from Andrew W. Mellon and serves as a center of visual art, education, and culture. The collection includes more than 150,000 paintings, sculptures, decorative arts, photographs, prints, and drawings.

The National Gallery of Art “serves the nation by welcoming all people to explore and experience art, creativity, and our shared humanity.”[1] To that end, the National Gallery of Art began making its collection freely available online in March 2012, when it initiated its open-access policy.[2]

**Contributions to Wikimedia Commons [edit]**

In September of 2018, the National Gallery of Art began a partnership with the Wikimedia Foundation with the goal of donating the museum’s 53,000 open-access images of artworks to Wikimedia Commons. By the end of September 2019, nearly all of the intended 53,000 had been uploaded. Additional images are expected to be contributed each year. All images donated to Wikimedia Commons are made directly from the artworks by museum photographers and reviewed...
Thank you.

HEALD.NGA.GOV

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