

# Getty Vocabularies Why LOD? Why now?

A Brief History of the Project

September 9, 2014

Joan Cobb  
IT Specialist Project Manager  
Getty Information Technology Services



The background features a complex pattern of thin, vertical, slightly wavy lines in various shades of blue and grey, creating a textured, forest-like appearance. A solid blue horizontal band is positioned in the lower half of the image, and a thin yellow line runs horizontally across the page, separating the blue band from the grey footer.

# The Beginning

# International Terminology Working Group



Dresden, September 2014



August 2010



November 2011



January 2013

# Setting the Stage

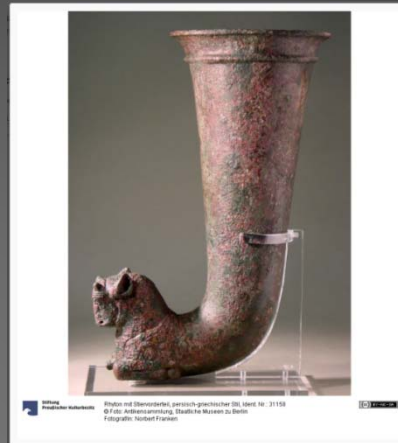


Dr. Marcia Lei Zeng

Professor, School of Library and Information Science  
Kent State University



Curriculum Vitae: <http://marciazeng.slis.kent.edu/vita.htm>



# The Challenge

Provide proof that the concept for “**rhyta**” in AAT could be represented as LOD without losing any of its rich content.

[http://www.getty.edu/vow/AATFullDisplay?find=rhyta&logic=AND&note=&english=N&prev\\_page=1&subjectid=300198841](http://www.getty.edu/vow/AATFullDisplay?find=rhyta&logic=AND&note=&english=N&prev_page=1&subjectid=300198841)



# Terms in multiple languages

ID: 300198841

Record Type: concept



**rhyta** (drinking vessels, <vessels for serving and consuming food>, ... Furnishings and Equipment (Hierarchy Name))

- Unique and persistent term IDs
- Languages are attributes of term
- Same term in multiple languages
- Parts of speech

## Terms:

**rhyta** (**preferred**,C,U,LC,English-P,D,U,PN)  
(Greek (transliterated)-P,D,U,PN)  
(Spanish,UF,U,PN)

**rhyton** (C,U,English,AD,U,SN)  
(Greek (transliterated),AD,U,SN)  
(Spanish,AD,U,SN)

**Rhyton** (C,U,English,AD,U,SN)  
**rhytons** (C,U,English,UF,U,N)  
(French-P,D,U,PN)  
(Spanish-P,D,U,PN)

**rhea (vessels)** (C,U,English,UF,U,N)

**rheons** (C,U,English,UF,U,N)

**rheon** (C,U,English,UF,U,N)

**ῥυτόν** (C,U,Ancient Greek,UF,U,U)

**rhütón** (C,U,Ancient Greek (transliterated),UF,U,U)

萊坦酒杯 (C,U,Chinese (traditional)-P,D,U,U)

角狀杯 (C,U,Chinese (traditional),UF,U,U)

角杯 (C,U,Chinese (traditional),UF,U,U)

**lái tǎn jiǔ bēi** (C,U,Chinese (transliterated Hanyu Pinyin)-P,UF,U,U)

**lái tǎn jiǔ bēi** (C,U,Chinese (transliterated Hanyu Pinyin),UF,U,U)

**lai tan jiu bei** (C,U,Chinese (transliterated Pinyin without tones)-P,UF,U,U)

**lai t'an chiu pei** (C,U,Chinese (transliterated Wade-Giles)-P,UF,U,U)

**rytons** (C,U,Dutch-P,D,U,U)

**ryton** (C,U,Dutch,AD,U,U)

**ritons** (C,U,French,UF,U,N)

**riton** (C,U,French,UF,U,N)

**Rhyta** (C,U,German-P,D,U,PN)

**ritóns** (C,U,Spanish,UF,U,N)

**ritón** (C,U,Spanish,UF,U,SN)

**escanciadora** (C,U,Spanish,UF,U,SN)

# Scope notes in multiple languages

ID: 300198841

Record Type: [concept](#)



**rhyta** (drinking vessels, <vessels for serving and consuming food>, ... Furnishings and Equipment (Hierarchy Name))

**Note:** Refers to vessels from Ancient Greece, eastern Europe, or the Middle East that typically have a closed form with two openings, one at the top for filling and one at the base so that liquid could stream out. They are often in the shape of a horn or an animal's head, and were typically used as a drinking cup or for pouring wine into another vessel. Drinking was done by holding the rhyton above the drinker's head and catching the stream of liquid in the mouth.

## Additional Notes:

**Chinese (traditional)** ..... 指古希臘、東歐或中東的容器，一般呈封閉狀，但有兩個開口處，其一位於頂端供注入液體，其二位於底部讓液體流出。多數狀如獸角或動物頭形，最常在飲酒或倒酒時使用；飲用時需握住杯子高舉過頭再以口接酒。指古希臘、東歐或中東的容器，一般呈封閉狀，但有兩個開口處，其一位於頂端供注入液體，其二位於底部讓液體流出。多數狀如獸角或動物頭形，最常在飲酒或倒酒時使用；飲用時需握住杯子高舉過頭再以口接酒。

**Dutch** ..... Vaten uit de Griekse oudheid in de vorm van een dierenkop, werden vaak gebruikt als drinkgerei of om wijn in een ander vat te gieten.

**German** ..... Verweist auf ein Gefäß aus dem antiken Griechenland, Osteuropa oder dem Mittleren Osten, das typischerweise eine geschlossene Form mit zwei Öffnungen hat, eine auf der Oberseite zum Einfüllen, eine auf der Unterseite, damit die Flüssigkeit herauslaufen kann. Es hat oft die Form eines Horns oder Tierkopfes und wurde typischerweise als Trinkgefäß oder zum Ausgießen von Wein in ein anderes Gefäß benutzt. Getrunken wurde, indem das Rhyton über den Kopf des Trinkenden gehalten und die Flüssigkeit mit dem Mund aufgefangen wurde.

**Spanish** ..... Refiérase a vasijas de la Antigua Grecia, Europa del Este, o del Medio Oriente, que típicamente son cerradas pero con dos aberturas, una en el extremo superior para poder llenarlas, y otra en la base para que el líquido pudiera salir. A menudo tienen la forma de un cuerno o una cabeza de animal y eran por lo común usadas como copas para beber o para vaciar vino en otras vasijas.










# Relationships

- Multiple parents
- Multiple other relationships








For the full list see “Crosswalk by Concept”

[http://www.getty.edu/research/tools/vocabularies/crosswalk\\_aat\\_assoc\\_rels.pdf](http://www.getty.edu/research/tools/vocabularies/crosswalk_aat_assoc_rels.pdf)









## Hierarchical Position:

 Objects Facet  
 .... Furnishings and Equipment (Hierarchy Name) (G)  
 ..... Containers (Hierarchy Name) (G)  
 ..... containers (receptacles) (G)  
 ..... <containers by function or context> (G)  
 ..... culinary containers (G)  
 ..... <containers for serving and consuming food> (G)  
 ..... <vessels for serving and consuming food> (G)  
 ..... drinking vessels (G)  
 ..... rhyta (G)

## Additional Parents:

 Objects Facet  
 .... Furnishings and Equipment (Hierarchy Name) (G)  
 ..... Containers (Hierarchy Name) (G)  
 ..... containers (receptacles) (G)  
 ..... <containers by function or context> (G)  
 ..... ceremonial containers (G)  
 ..... ceremonial vessels (G)  
 ..... rhyta (G)

**Hierarchical**

 Objects Facet  
 .... Furnishings and Equipment (Hierarchy Name) (G)  
 ..... Containers (Hierarchy Name) (G)  
 ..... containers (receptacles) (G)  
 ..... <containers by form> (G)  
 ..... vessels (containers) (G)  
 ..... vases (G)  
 ..... plastic vases (ancient vessels) (G)  
 ..... rhyta (G)

## Related concepts:

- distinguished from .... **drinking horns**  
 ..... (drinking vessels, <vessels for serving and consuming food>, ... Furnishings and Equipment (Hierarchy Name)) [300043229]
- distinguished from .... **stirrup cups**  
 ..... (drinking vessels, <vessels for serving and consuming food>, ... Furnishings and Equipment (Hierarchy Name)) [300197140]
- distinguished from .... **sturzbechers**  
 ..... (beakers (drinking vessels), drinking vessels, ... Furnishings and Equipment (Hierarchy Name)) [300197148]

**Associative**



**Sources and Contributors:**

escanciadora..... [CDBP-DIBAM, VP]  
 ..... Boardman, El Arte Griego (1996)  
 ..... Tesauro de Arte & Arquitectura (2000-)  
 lai t'an chiu pei..... [AS-Academia Sinica, VP]  
 ..... AS-Academia Sinica  
 lai tan jiu bei..... [AS-Academia Sinica, VP]  
 ..... AS-Academia Sinica  
 lái tǎn jiǔ bēi..... [AS-Academia Sinica]  
 ..... AS-Academia Sinica  
 ..... AS-Academia Sinica  
 rhea (vessels)..... [VP]  
 ..... Candidate term Getty Museum-June 1991  
 rheon..... [VP]  
 ..... Candidate term Getty Museum-June 1991.  
 rheons..... [VP]  
 ..... Richter and Milne, Shapes and Names of Athenian Vases (1935) 29  
 rhūtón..... [VP]  
 ..... Encyclopedia Britannica Online (2002-)  
 rhyta..... [CDBP-DIBAM, GCI Preferred, VP Preferred]  
 ..... AATA database (2002-) 128257 checked 26 January 2012  
 ..... Boardman, El Arte Griego (1996)  
 ..... Candidate term Getty Museum-June 1991.  
 ..... CDMARC Subjects: LCSH (1988-)  
 ..... Encyclopedia Britannica Online (2002-)  
 ..... Vermeule, Greece in the Bronze Age (1964) illustration, glossary  
 Rhyta..... [IfM-SMB-PK, VP]  
 ..... Staatliche Museen zu Berlin Preussischer Kulturbesitz database (2014-)  
 rhyton..... [CDBP-DIBAM Preferred, VP]  
 ..... Candidate term Getty Museum-June 1991.  
 ..... Chenhall, Revised Nomenclature (1988)  
 ..... Grove Dictionary of Art (1996) 26:296  
 ..... Grove Dictionary of Art online (1999-2002) "Minoan: Pottery"  
 ..... Morrison and Williams, Greek Oared Ships (1968) GLOS  
 ..... RDMZ, Nederlandse AAT (1998-)  
 ..... Richter and Milne, Shapes and Names of Athenian Vases (1935) 29  
 ..... Vermeule, Greece in the Bronze Age (1964) illustration, glossary  
 ..... Walsh, Museo J.Paul Getty: Guía de las colecciones (1995)  
 Rhyton..... [IfM-SMB-PK Preferred, VP]  
 ..... Staatliche Museen zu Berlin Preussischer Kulturbesitz database (2014-)  
 rhytons..... [VP]  
 ..... Musée du Louvre [online] (2003-) accessed 5 February 2011  
 ..... Tesauro de Arte & Arquitectura (2000-)  
 ritón..... [CDBP-DIBAM, VP]  
 ..... Getty Vocabulary Program rules  
 ..... Karusu, Museo Nacional Guía Ilustrada (1999)  
 ríton..... [VP]  
 ..... Getty Vocabulary Program rules  
 ritóns..... [VP]  
 ..... Tesauro de Arte & Arquitectura (2000-)  
 ritons..... [VP]  
 ..... Musée du Louvre [online] (2003-)  
 ryton..... [RKD, AAT-Ned]  
 ..... AAT-Ned (1994-)  
 rytóns..... [RKD, AAT-Ned Preferred]  
 ..... AAT-Ned (1994-)  
 ρυτόν..... [VP]  
 ..... Encyclopedia Britannica Online (2002-)  
 萊坦酒杯..... [AS-Academia Sinica Preferred, VP]  
 ..... 智慧藏百科全書網 September 8, 2009  
 ..... 視覺藝術科學與教學常用英漢辭彙 July 3, 2009  
 角狀杯..... [AS-Academia Sinica, VP]  
 ..... 古希臘藝術 14,21  
 ..... 智慧藏百科全書網 September 30, 2011  
 ..... 藝術名詞與技法辭典 386  
 角杯..... [AS-Academia Sinica, VP]  
 ..... 大英視覺藝術百科全書 Vol. 1, 90

**Source ID:** 2000079740 Chinese  
**Brief Citation:** AS-Academia Sinica  
**Full Citation:** Academia Sinica (Academia Sinica; Nankang, Taiwan)

**Source ID:** 2000079883 German  
**Brief Citation:** Staatliche Museen zu Berlin Preussischer Kulturbesitz database (2014-)  
**Full Citation:** Database of the Staatliche Museen zu Berlin Preussischer Kulturbesitz (Berlin, Germany). (2014-)

# Sources and Contributors

**Source ID:** 2000077523 Dutch  
**Brief Citation:** AAT-Ned (1994-)  
**Full Citation:** AAT Ned: Dutch AAT Translation Project coordinated by RKD (Netherlands Institute for Art History). The Hague, Bureau AAT, 1994-.

**Source ID:** 2000051034 Spanish  
**Brief Citation:** TAA database (2000-)  
**Full Citation:** Tesauro de Arte & Arquitectura database. Centro de Documentación de Bienes Patrimoniales, DIBAM. Santiago, Chile: 2000-.

**Note:**  
 English ..... [VP]  
 ..... Encyclopedia Britannica Online (2002-)  
 ..... J. Paul Getty Museum, collections online (2000-)  
 Chinese (traditional)..... [VP]  
 ..... AS-Academia Sinica  
 Dutch ..... [RKD, AAT-Ned]  
 ..... AAT-Ned (1994-)  
 German ..... [VP]  
 ..... Staatliche Museen zu Berlin Preussischer Kulturbesitz database (2014-)  
 Spanish ..... [CDBP-DIBAM, VP]  
 ..... TAA database (2000-)

**Subject:** ..... [AS-Academia Sinica, CDBP-DIBAM, GCI, RKD, AAT-Ned, VP]  
 ..... AATA database (2002-) 128257 checked 26 January 2012  
 ..... Chenhall, Revised Nomenclature (1988) horn, drinking  
 ..... Winkler Prins Encyclopedie (1990)

# Revision History

- Subject
  - Created
  - Updated
  - Term added
  - Term deleted
  - Note created
  - Note updated
  - Moved
  - Parent added
  - Relation deleted
  - Merged
  - Issued
- Source
  - Created
  - Updated
  - Merge

## Obsolete Subjects

- When, for some reason the concept is deleted, we also provide continuity.

# The Conclusion

- The way data is being published on the web is currently in transition.
- A current trend in managing art information is to increasingly make data about art, architecture, and cultural objects available as Linked Open Data.
- This applies to the information directly describing the objects, but also to the vocabularies used in the descriptions.
- For several years, the Getty Vocabulary team had been receiving legitimate requests to publish our thesauri as LOD.
- Dr. Zeng's 62-page report convinced us that it was possible to publish all of our data as LOD. **It was time to stop asking "why" and to start exploring "how" to make it happen.**



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# The Analysis Phase

Some facts and links that helped us take the leap into the LOD world

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# Tim Berners-Lee

- Tim Berners-Lee is the director of the World Wide Web Consortium (W3C).
- Semantic Network Model was formed in the early 60s as a form to represent semantically structured knowledge.
- In 1998 Tim Berners-Lee created this “*attempt to give a high-level plan of the architecture of the Semantic WWW.*”  
<http://www.w3.org/DesignIssues/Semantic.html>
- The original 2001 *Scientific American* article by Berners-Lee described an expected evolution of the existing Web to a Semantic Web.
- He defined the Semantic Web as a “web of data that can be processed directly and indirectly by machines.”
- By 2010, it was a reality  
[http://www.ted.com/talks/tim\\_berniers\\_lee\\_the\\_year\\_open\\_data\\_went\\_worldwide.html](http://www.ted.com/talks/tim_berniers_lee_the_year_open_data_went_worldwide.html)

# Other Research and Links

- Europeana Video
  - Sometimes a picture is worth a thousand words – in this case, it's a video
  - <http://vimeo.com/36752317>
- Semantic Technology & Business Conference
  - <http://semtechbizsf2013.semanticweb.com/agenda.cfm?confid=70&scheduleDay=PRINT>
- Linked Open Data in Libraries Archives and Museums (LODLAM)
  - <http://lodlam.net/>
- Virtual International Authority File (VIAF)
  - Hosted by OCLC (Online Computer Library Center)
  - <http://www.viaf.org/>

# Linked Documents vs Linked Data

- Linked Documents on the Web
  - Connected by hypertext
  - Allows users to traverse via Web browsers
  - Data is made available in formats such as CSV, XML, or marked up as HTML tables
- Linked Data on the Web
  - Connects data from diverse domains such as people, books, scientific publications, films, genes, drugs and clinical trials, online communities, statistical and scientific data.
  - Enables new generation of search engines that follow the links between data sources to deliver more complete answers as new data sources appear
  - Operate on top of an unbound, global data space.
  - Uses the Web to create typed links between data from different sources.

# Linked Open Data (LOD)

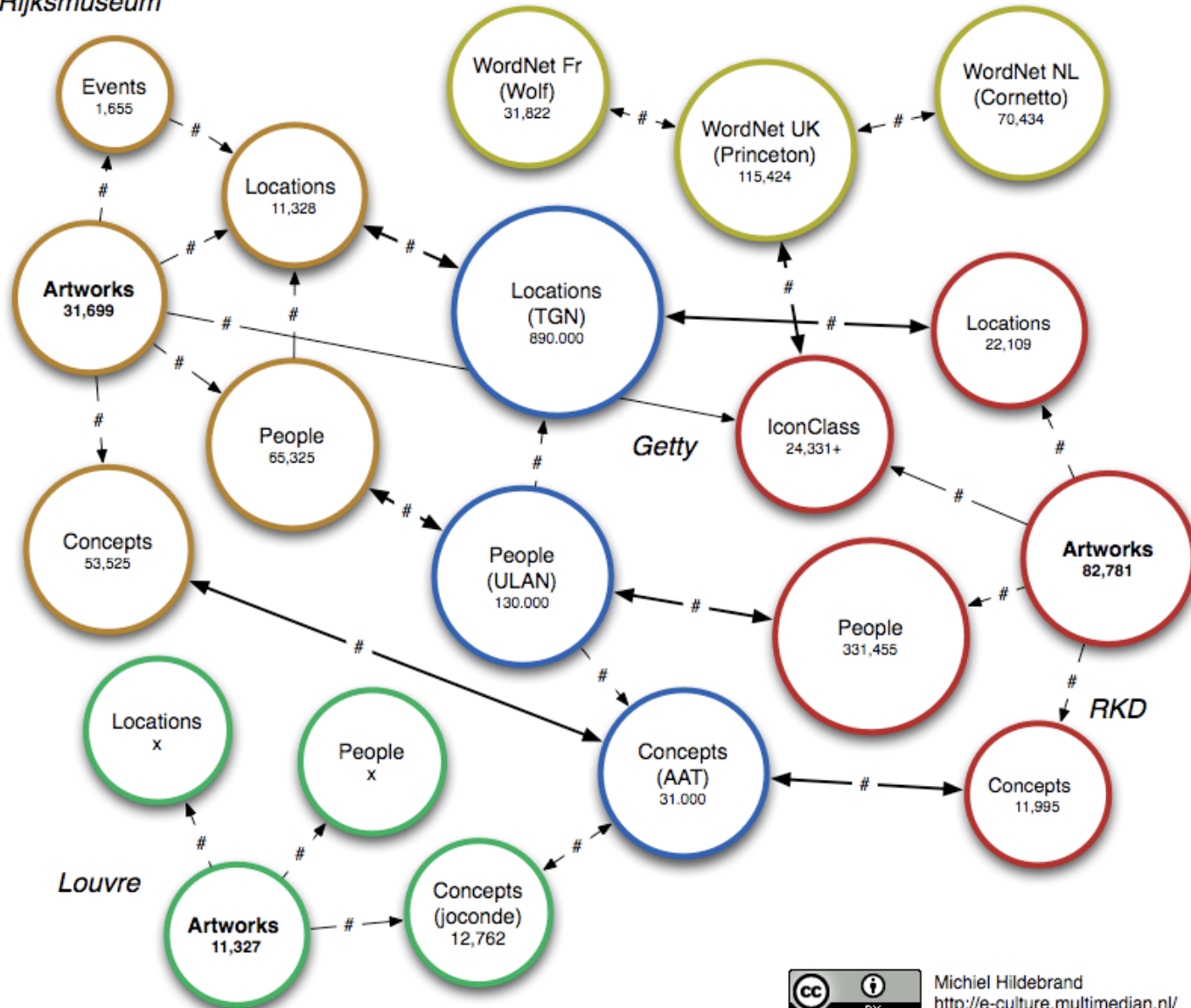
- Linked Data
  - A set of best practices for publishing and connecting structured data on the Web to enable the interlinking possibilities.
  - It builds upon standard Web technologies such as HTTP and URIs.
  - But, rather than using them to serve web pages for human readers, it extends them to share information in a way that can be read automatically by computers.
- Open data
  - The idea that certain data should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control.
- Linked Open Data (LOD)
  - A community project, sponsored by the Semantic Web Education and Outreach group of the W3C, to extend the Web with a data commons by publishing various open datasets as RDF on the WEB and by setting RDF links between data items from different data sources.
  - Both linked and open.



## Cultural Heritage LOD

Cultural Heritage has its own LOD cloud:

*Rijksmuseum*



Michiel Hildebrand  
<http://e-culture.multimedien.nl/>



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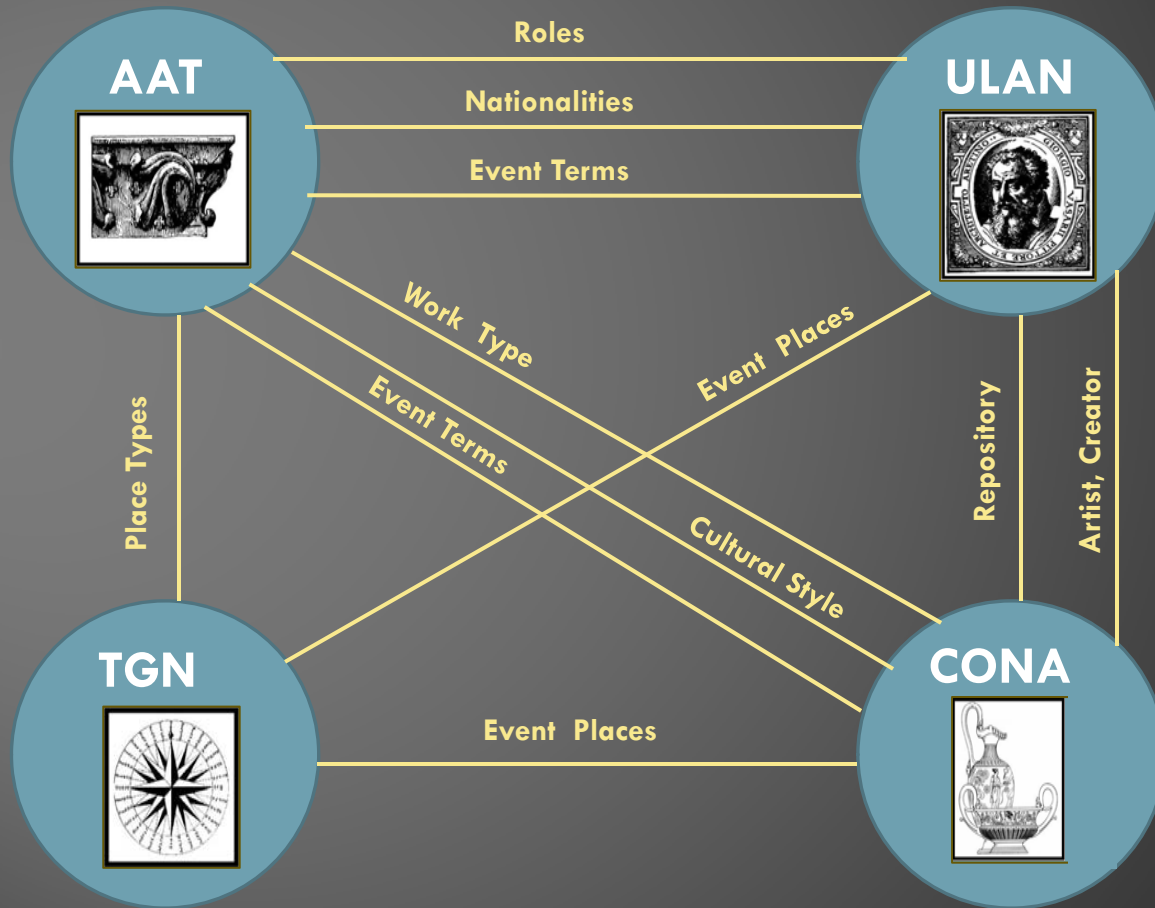
# Our Goal

To offer the Getty Vocabularies as Conduits to connect resources

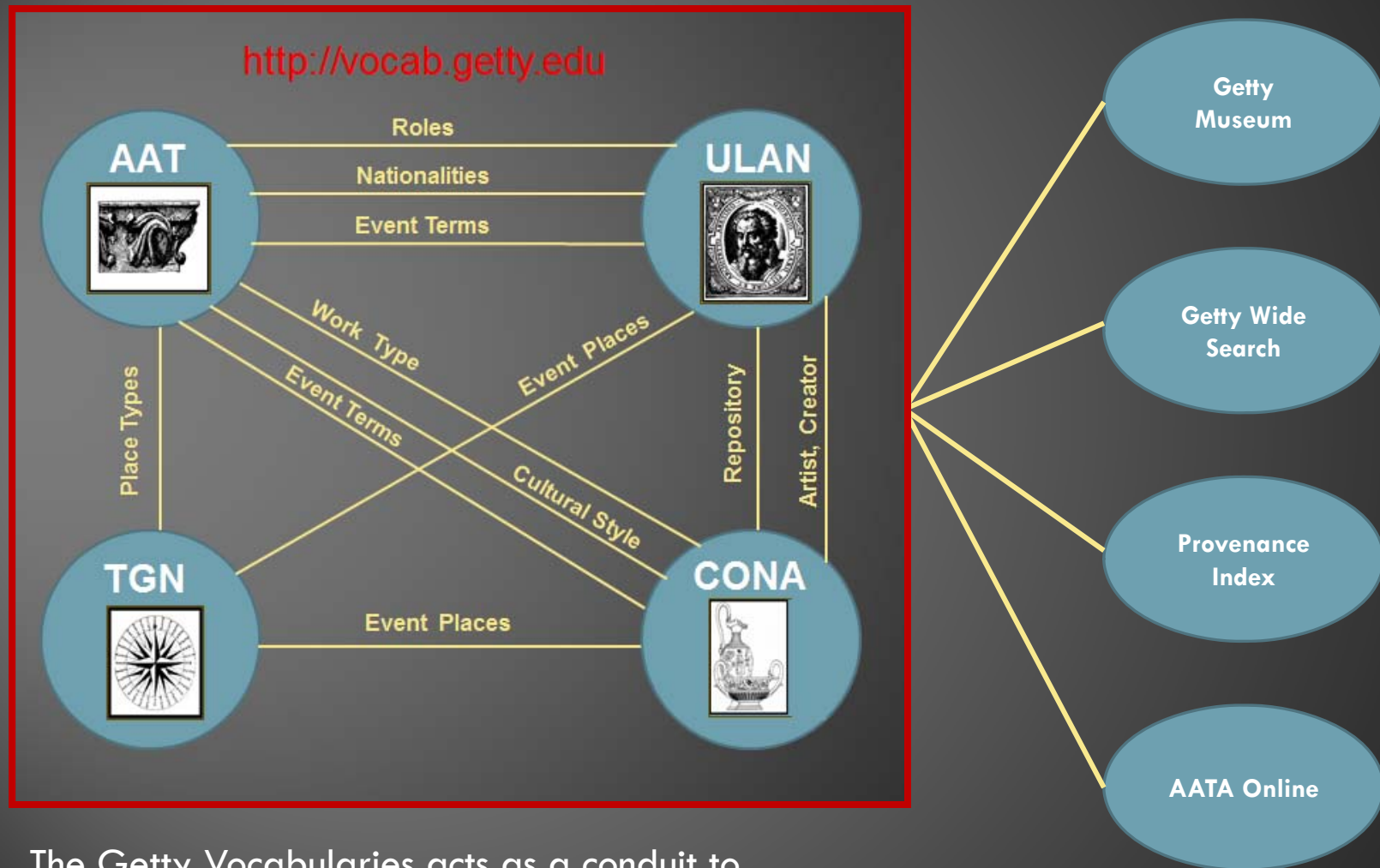
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# Linking Possibilities: Getty Vocabularies

<http://vocab.getty.edu>

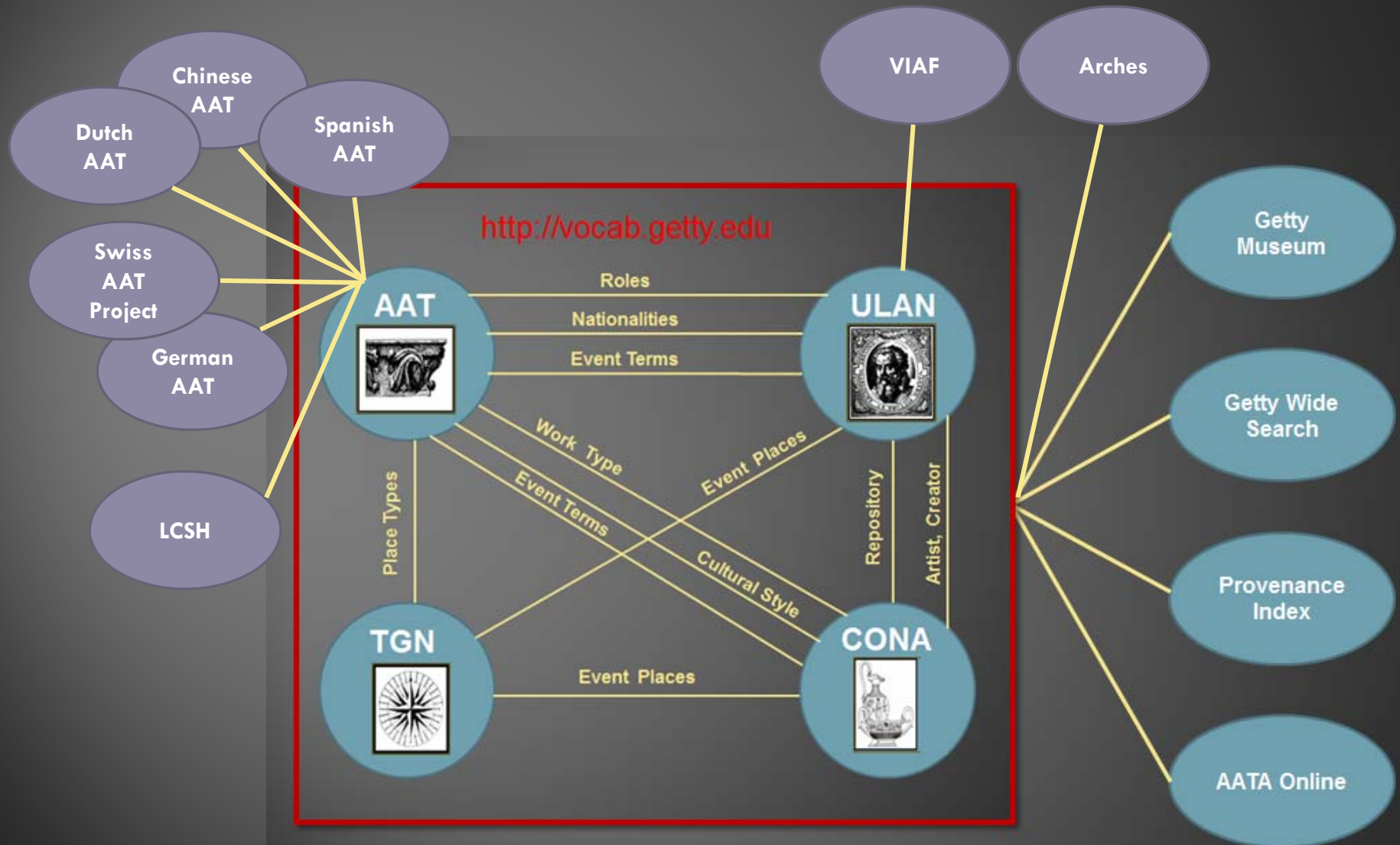


# Linking Possibilities: Other Getty Projects

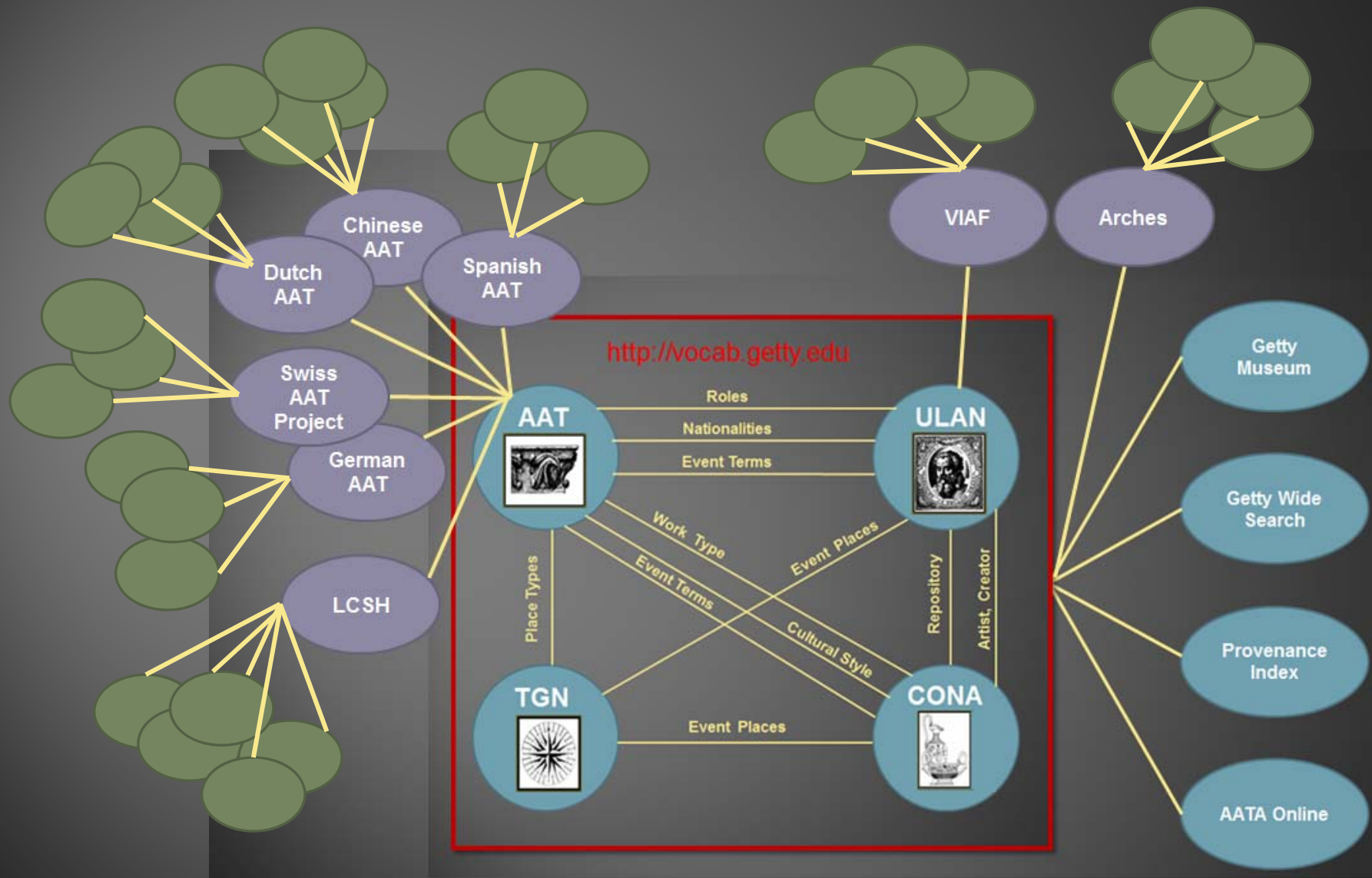


The Getty Vocabularies acts as a conduit to connect the projects to each other.

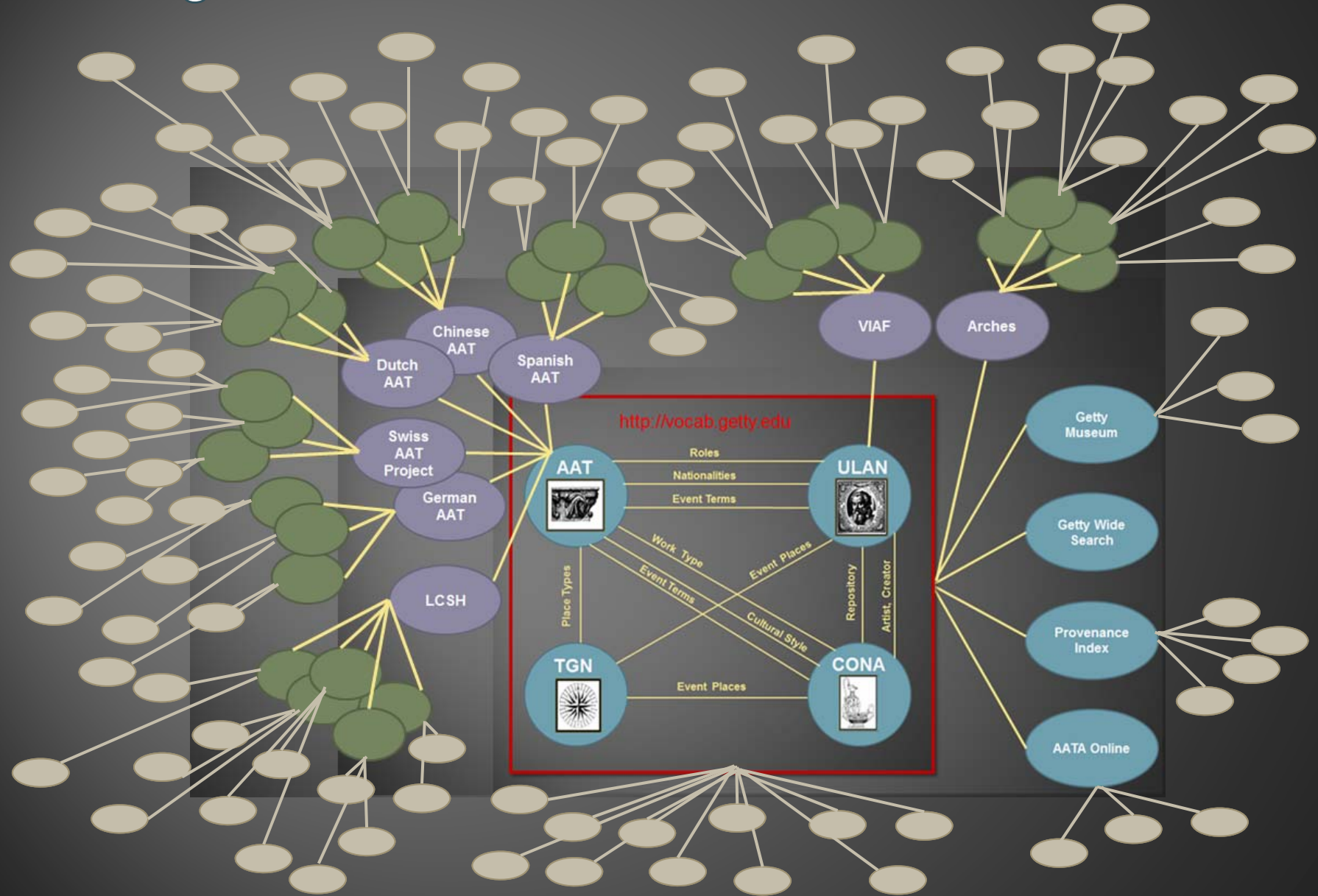
# Linking Possibilities: Our Partners



# Linking Possibilities: Our Partner's Partners



# Linking Possibilities: Others



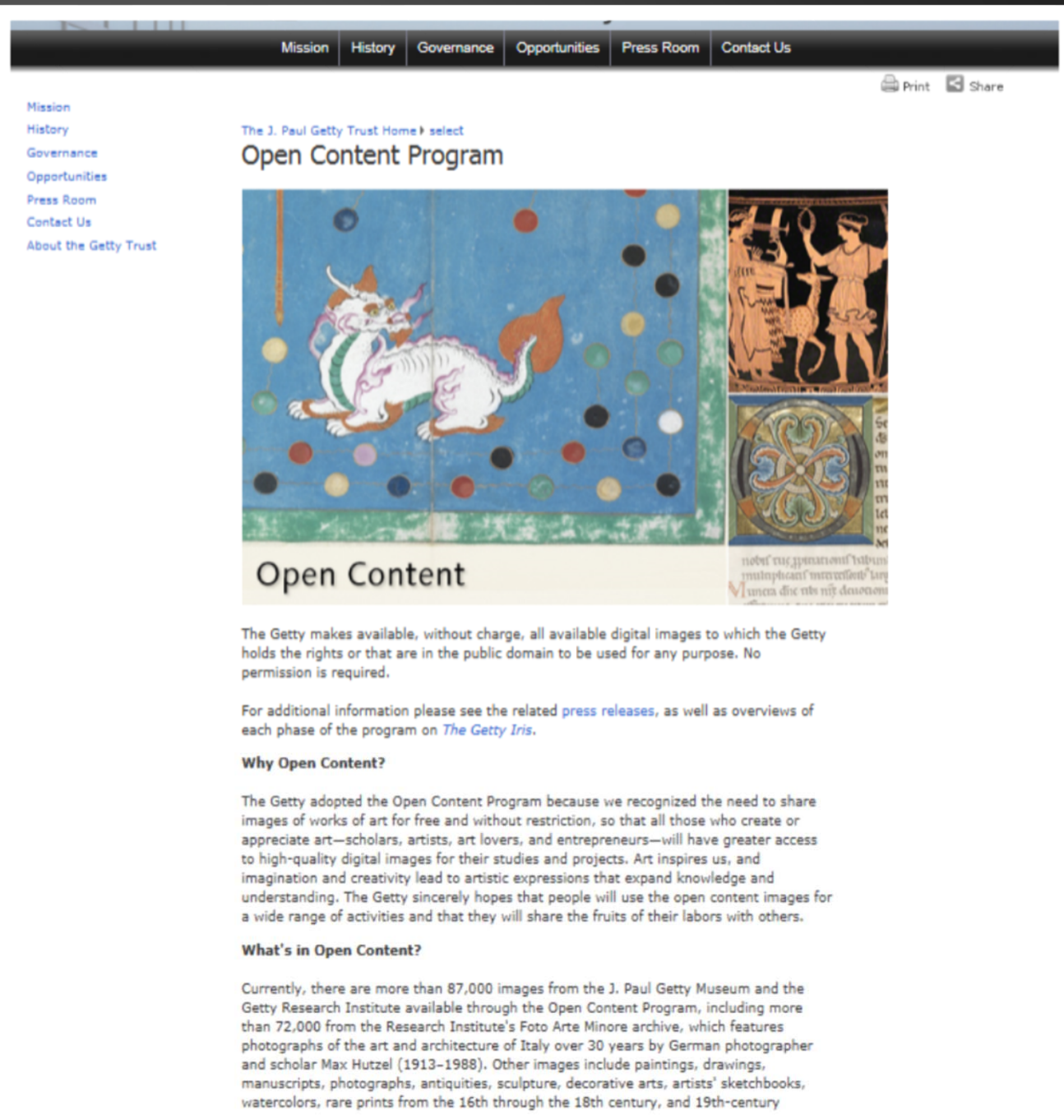
The background of the slide is a light gray gradient with numerous thin, vertical, slightly wavy lines in a teal color. A solid teal horizontal band is positioned in the lower half of the slide, and a thin yellow line runs horizontally across the slide, separating the teal band from the bottom gray section.

# The Result



# Open Content Program

Finally, our time had come!



The screenshot shows the website's navigation menu at the top with links for Mission, History, Governance, Opportunities, Press Room, and Contact Us. On the left, a vertical menu lists: Mission, History, Governance, Opportunities, Press Room, Contact Us, and About the Getty Trust. The main content area features the heading "The J. Paul Getty Trust Home select" followed by "Open Content Program". Below this is a collage of three images: a colorful abstract painting with a white creature, a classical painting of a woman with a dog, and a manuscript page with a decorative initial. The text "Open Content" is overlaid on the bottom of the collage. Below the images, the text reads: "The Getty makes available, without charge, all available digital images to which the Getty holds the rights or that are in the public domain to be used for any purpose. No permission is required." It then provides information on press releases and overviews on *The Getty Iris*. The page includes sections for "Why Open Content?" and "What's in Open Content?", detailing the program's goals and the vast collection of over 87,000 images available.

# General information site

- Target audience: Anyone interested in general information about the project
- <http://www.getty.edu/research/tools/vocabularies/loa/index.html>

The screenshot shows the homepage of the Getty Vocabularies as Linked Open Data project. The header includes the Getty Research Institute logo and navigation links for Exhibitions & Events, Special Collections, Library, Search Tools & Databases, Scholars & Projects, Publications, and About the GRI. The main content area is titled 'Getty Vocabularies as Linked Open Data' and features a 'Linked Open Data' logo. Below the logo, there is a paragraph explaining that the vocabularies are constructed to allow their use in linked data. A sidebar on the left lists various search tools and databases, including Primo Search, Getty Research Portal, and various thesauri and gazetteers. A 'News and Status of the Project' section is also visible, along with a 'Developers and programmers, technical documentation to help you explore the AAT and TGN data is available at the SPARQL endpoint at vocab.getty.edu' link.

The screenshot shows the SPARQL endpoint page for the Getty Vocabularies. The header includes the title 'The Getty Vocabularies' and a welcome message to the SPARQL endpoint. Below this, there is a section for 'NOW Available:' listing the Art & Architecture Thesaurus (AAT) and the Getty Thesaurus of Geographic Names (TGN). The 'Documentation and Downloads:' section provides links to GVP Semantic Representation, GVP ontology, and datasets. The 'Explore the Dataset:' section includes instructions for text search and SPARQL queries. The 'Questions and Comments:' section provides a link to the SemanticWeb.com Q&A forum. The 'Usage Stories:' section encourages users to share their experiences. The 'Openness:' section mentions the Open Data Commons Attribution License.

## SPARQL Endpoint

- Target audience: Developers and programmers who are interested in consuming the data
- <http://vocab.getty.edu/>



[Art](#), [Getty Research Institute](#), [Research](#)

## Art & Architecture Thesaurus Now Available as Linked Open Data

James Cuno | February 20, 2014

First of the Getty Research Institute's four vocabularies released today, with more planned over coming 18 months



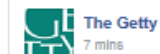
Linked Open Data

We're delighted to announce that today, the Getty has released the [Art & Architecture Thesaurus \(AAT\)](#) as Linked Open Data. The data set is available for download at [vocab.getty.edu](http://vocab.getty.edu) under an Open Data Commons Attribution License (ODC BY 1.0).

### Recent Posts

- [5 Tips for Making the Most of an Arts Internship](#)
- [Getty Thesaurus of Geographic Names Released as Linked Open Data](#)
- [Fashion Off the 405, Weekender Edition](#)
- [Conservation Tools: The GC/MS Instrument](#)
- [Everything You Wanted to Know about Medieval Arms and Armor](#)
- [A Guide to Aeschylus's "Persians"](#)
- [Music of a Megalopolis: A Playlist for "In Focus: Tokyo"](#)
- [Acrobatic Feats of the Ancient Wine Party](#)

### Facebook



Some of the best stories are told on

Release of  
AAT as LOD

February 2014

# Release of TGN as LOD

August 2014

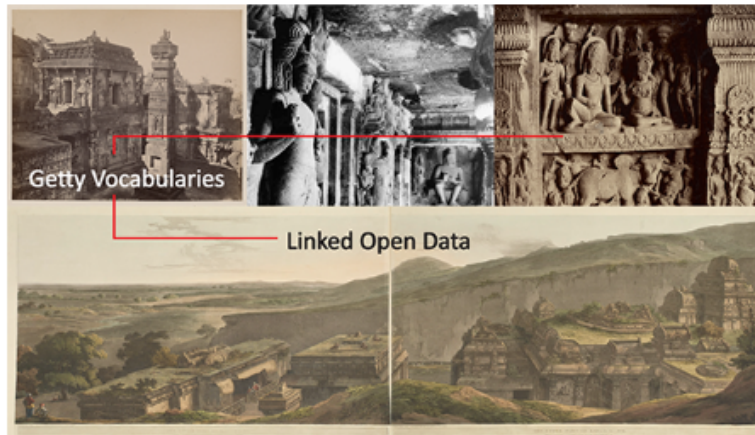
In the first few days  
1,700 hits / over 200 tweets

Art, Getty Research Institute, Research

## Getty Thesaurus of Geographic Names Released as Linked Open Data

James Cuno | August 21, 2014

Second of four Getty Vocabularies now available for free download; two more to follow within a year



We're delighted to announce that the Getty Research Institute has released the [Getty Thesaurus of Geographic Names \(TGN\)](#)® as Linked Open Data. This represents an important step in the Getty's ongoing work to make our knowledge resources freely available to all.

### Recent Posts

- [5 Tips for Making the Most of an Arts Internship](#)
- [Getty Thesaurus of Geographic Names Released as Linked Open Data](#)
- [Fashion Off the 405, Weekender Edition](#)
- [Conservation Tools: The GC/MS Instrument](#)
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- [Acrobatic Feats of the Ancient Wine Party](#)

### Facebook



The background features a complex pattern of thin, vertical, slightly wavy lines in various shades of blue and grey, creating a textured, forest-like appearance. A solid blue horizontal band is positioned in the lower third of the image, containing the main title. Below this band is a thin yellow line, and at the very bottom is a grey gradient band.

# A Few Examples of Usage

EADitor

Ethan Gruber  
US Numismatic Society

Nomisma.org  
Kerameikos.org

## Integrating EADitor with the Getty linked data AAT

I've been following [linked open data developments](#) at the Getty pretty closely over the last few months, especially related to incorporating Getty AAT URIs (and eventually ids from other vocabulary systems) into [Nomisma.org](#) and my side-project [Kerameikos.org](#), a LOD thesaurus geared specifically toward Greek pottery.

For some reason, it occurred to me only yesterday that I should adapt [EADitor](#) to incorporate Getty AAT identifiers into EAD finding aids. After all, XForms applications communicate nicely with other REST services (such as SPARQL), and I've already done SPARQL query work in XForms with Nomisma's backend. I spent about a half hour this afternoon improving the Genreform functionality in EADitor to make AAT (as opposed to the Library of Congress Genre/Format Terms) as the default lookup mechanism.

Here's how it works:

### User Interface

**Controlled Access Headings** ✕ +

**Genreform** papyri ✕ @ authfilenumber:300055047 source:aat

**Genreform** Hallotypes (photographs) ✕ @ authfilenumber:300263423 source:aat

**Genreform** ✕ @ source:aat

**Interface Type**

Getty AAT

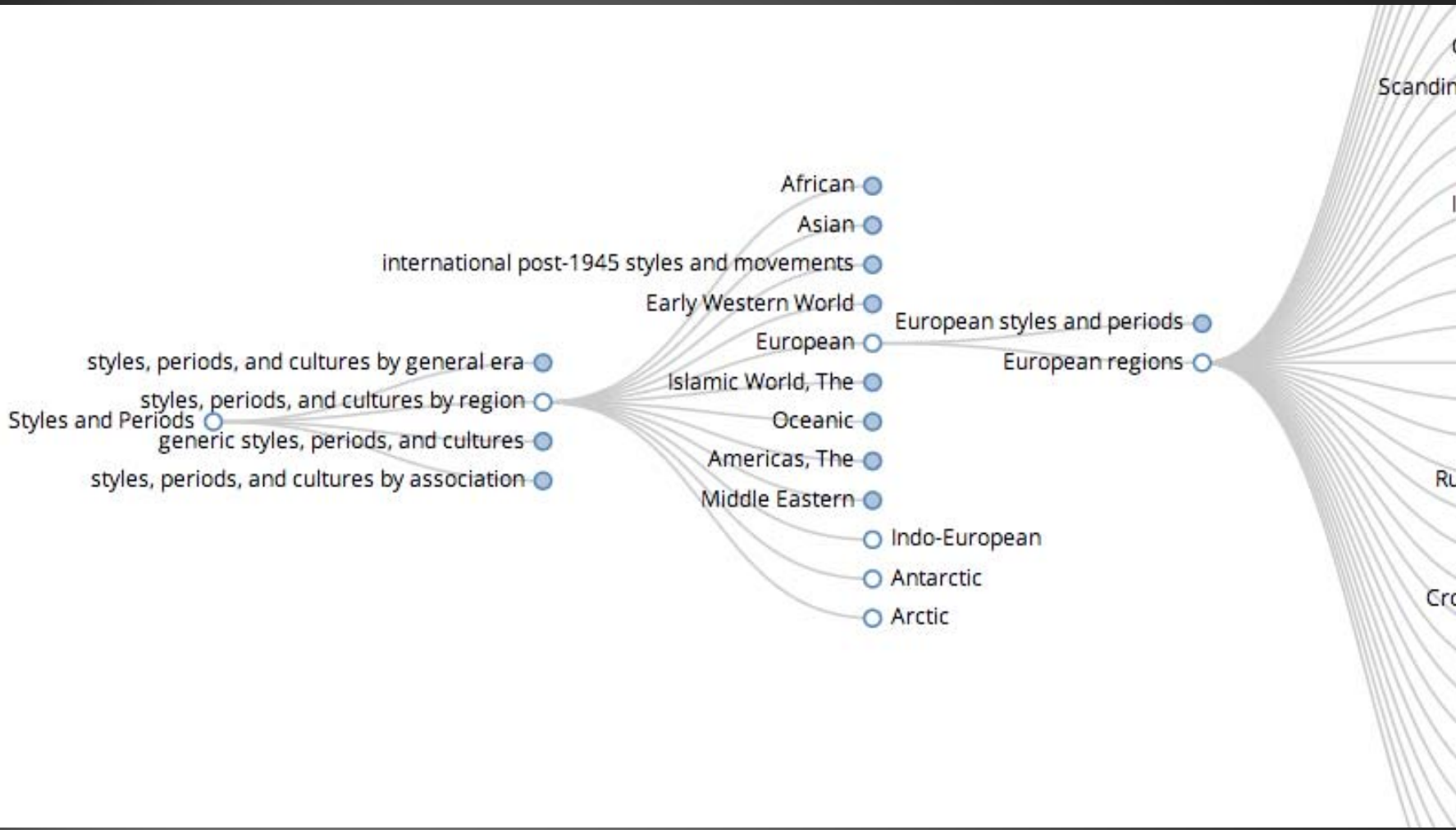
LC Genre/Form Terms

Local Vocabulary

**Search** nolan amphora Search

**Term** Nolan amphorae Select

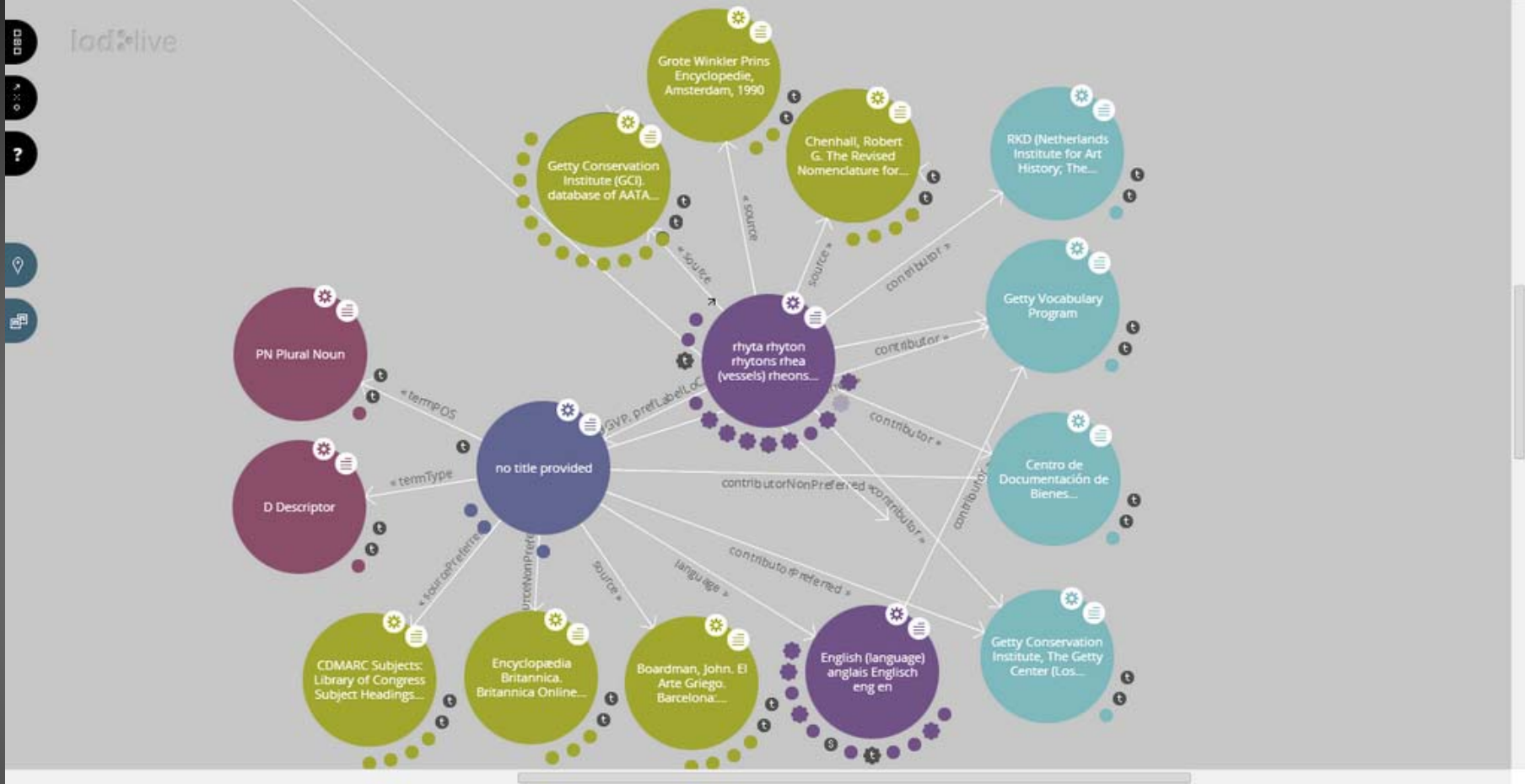
1. Add a genreform element into your controlled access headings in your EAD finding aid.
2. Click the Getty AAT radio button (selected by default) to activate the query interface.
3. Type a term and click the search button.
4. A list of results (limited to 25, filtered by English labels, and arranged alphabetically) will appear in the select list. After clicking an option, click the "Select" button to set the text of the genreform node to the skos:prefLabel from the Getty SPARQL results and to set the @authfilenumber attribute of the genreform element to the Getty id.



# Visualizing Hierarchies with d3js

Matthew Lincoln

<http://matthewlincoln.net/2014/02/21/hierarchies-of-the-getty.html>



## Visualization of AAT "Rhyta" on en.lodlive.it

<http://en.lodlive.it/?http://vocab.getty.edu/aat/300198841>



# NISO Webinar on LODLAM given by Jon Voss

Getty Vocabularies as LOD

A major 2014 milestone for the LODLAM community

LODLAM: Linked Open Data in Libraries Archives and Museums

The screenshot shows a Slideshare presentation slide. The slide content includes:

- 2013 Schema.org
- BIBFRAME
- DPLA
- 2014 Getty Vocabularies** (circled in red with an arrow pointing from the text on the left)

Below the text, there are three images:

- A poster for 'DPLA fest 2013' (October 24-25, 2013, Boston, MA) with the tagline 'A Wealth of Knowledge'.
- A blue globe icon representing a network or linked data.
- A 'history p/n' logo.

At the bottom of the slide, there is a 'Get in touch' button and a navigation bar showing '52 / 151'.

Below the slide, the Slideshare interface shows the title 'NISO Webinar: Library Linked Data: From Vision to Reality' by National Information Standards Organization (NISO) on Dec 12, 2013, with 421 views and a 'Follow' button.



# DIGITISING AND ENABLING ART NOUVEAU FOR EUROPEANA

HOME BLOG

→ ABOUT PARTAGE PLUS

**More than 75.000 items published in Europeana - metadata enriched with AAT concepts**

Starting in March 2012 the 25 partner institutions of the Partage Plus project will digitize in 24 months European Art Nouveau objects, artworks, posters, and buildings to create more than 75.000 items - including 2.000 3D models - of content for access through Europeana.

- Connect to Partage Plus on Facebook!
- Follow the Partage Plus project on Twitter!

→ PARTNERS **25 partners (+ cooperating institutions) from 17 nations participating**

→ DELIVERABLES AND DOCUMENTS

Google Custom Search

Search

→ CONTENT CREATED IN THE PARTAGE PLUS PROJECT

→ EVENTS

→ PARTAGE PLUS BLOG

→ LINKS

→ NEWS

→ MEMBERS AREA

### News highlight

**Drents Museum: Partage Plus 3D showcase online**

The Drents Museum in Assen, the Netherlands has set up a



Charles Tiffany - 1890's



Schreiber & Co - 1896



Louis Comf



Szandrik - 1899



Zsolnay - 1901



Drasche Fab



## Controlled vocabulary | 16 languages

Catalan (ca), Croatian (hr), Czech (cs), Dutch (nl), English (en), Finnish (fi), French (fr), German (de), Hungarian (hu), Italian (it), Norwegian (no), Polish (pl), Portuguese (pt), Slovenian (sl), Spanish (es), Swedish (sv)

AAT Objects Facet

49 AAT matches

PP 'Micro' Object Type: 49 concepts

357 AAT matches

PP Refining Object Type: 365 concepts

AAT Styles and Periods Facet

13 AAT matches

PP Art Nouveau Style: 33 concepts

AAT Materials Facet

151 AAT matches

PP Material: 154 concepts

AAT Activities Facet

76 AAT matches

PP Technique: 81 concepts

... get more in other languages!

- By media type
- IMAGE (102)
- TEXT (21)
- By language of description
- By year
- By providing country
- Can I use it?
- By copyright
- By provider
- By data provider
- Include content contributed by users

Share:

- Share

Getty Vocabularies: LOD

SPARQL

**churches (buildings)**

Source: <http://vocab.getty.edu/aat/300007466>

Subject (100 of 150) | Predicate | Object | All

[Website](#) | [Hierarchy](#) | [Download in .JSON](#) | [RDF](#) | [N3/Turtle](#) | [N-Triples](#)

Inference: [Explicit only](#)

Predicate	Object
rdfs:type	gsp:Concept
rdfs:seeAlso	<a href="http://www.getty.edu/vow/aat/FullDisplay/Tree-Scope-AND&amp;note=&amp;subject=300007466">http://www.getty.edu/vow/aat/FullDisplay/Tree-Scope-AND&amp;note=&amp;subject=300007466</a>
dcterms:contributor	aat_contrib:10000000, aat_contrib:10000005, aat_contrib:10000131, aat_contrib:10000205
skos:scopeNote	aat_scopeNote:41120
skos:inScheme	aat
skos:prefLabel	churches (buildings)[en], iglesias[es], kerken[nl]
skos:altLabel	chirche[en], church[en], church (building)[en], church architecture[en], church buildings[en], church (building)[en], church[en], cncce[en], cncce[en], iglesias[es], kerke[nl], kerkgebouwen[nl], kirkas[en], kirks (buildings)[en], kirke[en], kurks (buildings)[en]

Matches for: skos\_concept: "http://vocab.getty.edu/aat/300007466"

Partage Plus vocabulary: Mozilla Firefox

Return to search results

Free access - no reuse

View item at [Bildarchiv Foto Marburg](#)

Share

Cite on Wikipedia

URI: <http://partage.vocnet.org/part00756>

Type: Concept

Term: churches

Term: kyrkor

Term: igreja

Term: Kirchen

Term: Kirche

Term: crkva

Term: kirkkorakennukset

Term: chiesa

Term: chiese

Term: kirker

Term: Kirchengebäude

Term: kirke

Term: kerkgebouwen

Term: kerkgebouw

Term: kerken

Term: kerk

Term: templom

Term: église

Term: iglesias

Term: iglesia

Term: kostel

Term: esglésies

Term: església

Term: kirkka

Term: kościół

Term: kościol

Term: cerkev

Term: cerkev

Term: igrejas

Term: templomok

Term: crkve

exactMatch: <http://vocab.getty.edu/aat/300007466>

## Partage Plus Digitising and Enabling Art Nouveau for Europeana

<http://www.partage-plus.eu/>

Controlled Vocabulary Terms

Work Type	Term	ID
<input checked="" type="checkbox"/> Type		
<input type="checkbox"/> Form		
<input type="checkbox"/> Function		

Getty AAT Vocabulary

paintings

AND  OR

- fore-edge paintings (components)
- black-figure vase paintings (visual works)
- rock paintings
- theorems (paintings)
- painting glass (visual works)**
- sandpaper paintings (visual works)
- double fore-edge paintings (objects)
- sand paintings (visual works)
- vase paintings (visual works)
- panel paintings (painting by form)
- cave paintings
- scroll paintings
- acrylic paintings (visual works)
- animal paintings
- red-figure vase paintings (visual works)

Works done by painting on the front or the reverse of glass, whether or not the paint is then fired onto the glass. Painted glass mirrors and other glass decoration, and painted works in the manner of painting on canvas or wooden panels were known since ancient times. In the context of stained glass windows and panels, refers to parts of the image that are painted on glass (often stained glass), especially the smaller details.

Controlled Vocabulary Terms

Work Type	Term	ID
<input type="checkbox"/> Type	painted glass (visual works)	aat/300343822
<input type="checkbox"/> Form	cabinet windows	aat/300002971
<input checked="" type="checkbox"/> Function		

Getty AAT Vocabulary

storage

AND  OR

- vehicle storage buildings
- food storage structures
- storage containers**
- thermal storage walls
- ice storage systems
- water storage tanks
- storage baskets
- racks (supporting devices)
- storage vessels
- storage devices (computer)
- pumped storage power plants
- storage boxes
- storage spaces
- storage tanks

General term for containers that store materials.

## Indexing Plugin for Adobe Bridge

### Greg Reser -UC, San Diego Library

## Download & Extend

Add Issues for Web Taxonomy plugin for Getty vocabularies to dashboard +

Download & Extend Home

Drupal Core

Distributions

Modules

Themes

Web Taxonomy plugin for Getty vocabularies

### **natuk's sandbox: Web Taxonomy plugin for Getty vocabularies**

View Edit Version control Maintainers

Posted by natuk on August 27, 2014 at 3:30pm

#### Experimental Project

This is a [sandbox project](#), which contains experimental code for developer use only.

This is a plugin for the [Web Taxonomy module](#). It allows the use of the terms from the [Getty vocabularies](#):

- [Art and Architecture Thesaurus \(AAT\)](#)
- [Thesaurus of Geographical Names \(TGN\)](#)

These two have recently been made available as LOD. More Getty vocabularies will be added to this module once available as LOD. The module uses the JSON representations and the sample *Full Text Search SPARQL Query (5.1.6)* from the Getty which has been modified to limit results from the respective vocabularies.

This module has been based on [jneubert's sandbox module for DBpedia terms](#). An earlier version of this module for AAT only can be found [here](#).

This module is sponsored by [Ligatus](#) and the [University of the Arts London](#).

#### Project Information

Maintenance status: [Actively maintained](#)  
Development status: [Under active development](#)  
Module categories: [RDF](#), [Taxonomy](#)

AAT  
parchment  
transparent vellum  
parchment (animal material)  
parchment (color)

AAT  
parchment (animal material)  
TGA  
parchment  
Parchment  
Parchment Clerk  
Parchment Valley  
Water Colors

#### Parchment

View Edit

Submitted by admin on Wed, 06/27/2014 - 14:25

AAT:  
parchment (animal material)

TGN:  
Parchment

#### parchment (animal material)

View Edit

Web Term ID:  
<http://vocab.getty.edu/aut/30011851>

Parchment

#### Maintainers for Web Taxonomy plugin for Getty vocabularies

[natuk](#) - 2 commits  
last: 1 day ago, first: 1 day ago

[View all committers](#)  
[View commits](#)

#### Issues for Web Taxonomy plugin for Getty vocabularies

To avoid duplicates, please search before submitting a new issue.

Search

[Advanced search](#)

All issues

0 open, 0 total

Bug report

0 open, 0 total

[Subscribe via e-mail](#)

#### Resources

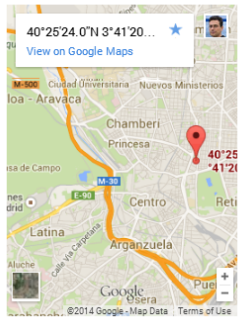
[Read license](#)

### Andalusi astrolabe from the Taifa of Toledo



#### Localización

Calle Serrano 13 28001 Madrid



Ver mapa más grande



#### astrolabes

This Toledan Andalusi astrolabe is formed by a main box or mater, five plates engraved on both sides, each designed for their use at a specific latitude; a turning spider or rete with 24 stellar pointers; an alidade on the back, with two pinnules for visual alignment; a rule on the top of the rete and a simple suspension system. The back of the mater (or "mother") feature the identifying characteristics found in Islamic astrolabes: Zodiac calendar together with the Julian calendar and the so-called shadow square used to measure heights. The latitudes at which this astrolabe could have been used were those of the cities of Toledo, Zaragoza, Cordova, Granada, Seville, Murcia and other less significant communities in the Peninsula, in addition to the Islamic cities of Mecca, Medina, Cairo, Baghdad and Damascus, among others. Its decorative elements are located on the rete, and include heart-shaped forms, pointed lobulated arch ornaments and a series of pointers with a bulbous, perforated base.

- 101 obras maestras: ciencia y arte en los museos y bibliotecas de Madrid
- Astrolabio de al-Sahīf (Wikipedia)

Astrolabio planisférico fabricado en latón y compuesto por: una caja o

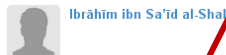
Museo Arqueológico Nacional (España)

1066-1067

Hispano-Moresque Taifa reigns period

Astrolabist Ibrāhīm ibn Saʿīd al-Shālī, who signed with a Kufic inscription on the back of the present piece, worked in Toledo and Valencia during the second half of the 11th century. Three astrolabes produced by him have survived to date: the piece under study here, created in Toledo; the astrolabe displayed at the Museum of the History of Science in Oxford, also created in Toledo; and a third piece made in Valencia, where the astrolabist moved to after the capture of Toledo by King Alphonse VI. There are documents confirming the presence of an important workshop where astronomical instruments were produced in Valencia. This workshop was run by Ibrāhīm ibn Saʿīd al-Shālī and his son, Muhammad ibn Saʿīd al-Shālī, who signed an astrolabe in 1090 A.D, currently kept at the National Museum of American History, in Washington D.C.

#### Autor



#### Materiales / técnicas

brass (alloy), smelting, welding, perforating, engraving (action)

#### Medidas

diameter: 24,20 cm; maximum width: 5 cm; maximum height: 33,50 cm

#### Inscripciones

- Kufic inscription on the back of the piece. On the back, author's name and year made (459 of Hijra) in Arabic.

En el mes de Saʿban de las obras que dirigió Ibrahīm ibn Saīd al-Muazīnī al-Shālī en Toledo año 459 de la Hégira

#### Otros títulos / nombres

- Al-Sahīf's Astrolabe

### Taifa reigns period

#### Getty AAT: Styles, periods, and cul...

European > <European styles and periods> > <Medieval styles and periods> > Medieval > Medieval regional styles > Southern European Medieval styles > Spanish Medieval styles > Hispano-Moresque

In the history of the Iberian Peninsula, a taifa (from Arabic: طَائِفَة [ṭawāʾif], plural طوائف [ṭawāʾif]) was an independent Muslim-ruled principality, usually an emirate or petty kingdom, though there was one oligarchy, of which a number formed in the Al-Andalus (Moorish Iberia) after the final collapse of the Umayyad Caliphate of Córdoba in 1031. From Wikipedia: <http://en.wikipedia.org/wiki/Taifa>

#### Obras

DigIMUS: Getty AAT Explorar tesauros Catálogo de obras

Buscar...

Español English

### Brass (alloy)

Getty AAT: Materials (matter)

<materials by composition> > inorganic material > metal > <metal by composition or origin> > nonferrous metal > <copper and copper alloy> > copper alloy

Alloy of copper and zinc, usually with copper as the major alloying element and zinc up to 40% by weight.

#### Subcategorías

admiralty metal	>	cartridge brass	>
latten	>	manganese bronze	>
Mannheim gold	>	Muntz metal	>
orichalcum	>	red brass	>
tin brass	>	tombac (alloy)	>

#### Obras



#### URI original del concepto

<http://vocab.getty.edu/aat/300010946>

#### Otros términos

messing [nl], laitón [fr], ottone [it], latón (aleación) [es], copper-zinc alloy [en], geelkoper [nl], azófar [es]

DIGIMUS

AAT

Classification

Astrolabe

Digitization of  
the works of  
Chengpo Chen  
(1895-1947)

## Description

對陳澄波而言，畫出好作品的先決條件是議題，他說：「若是先研究、吟味所畫場所的時代精神，該地的符徵等，便具備作畫的好條件。」淡江中學由基督長老教會所創，但日本殖民政府要求私立學校遵守同化教育政策，迫使教會傳道必須改弦易轍，在校內引發軒然大波，最後教會不敵總督府的壓力，在1936年被台北州政府接收。陳澄波將曾經爆發紛爭的淡江中學，置入恬靜的田園風景中，山岡田畝的婉曲起伏，為畫面帶來韻律感，傾斜的黃土路分割出前、中景，田裏的青綠色與道路的黃褐色形成鮮明的色彩對比，電線桿與行人點景，令畫面透出生氣。畫中情境看似與現實社會無涉，然而透過構圖的布局手法，前景田埂線條動勢與遠景樹叢、岡陵相衝，觀者的注意力被引導至畫幅中軸頂端的建築上，淡江中學的紅磚樓舍與八角塔清晰可辨，間接點出畫中場景的獨特意義。

## Subject

田園風光 **pastoral** ID 300250491

農田 **farmland** ID 300008632

白鷺屬(屬) **Egretta(genus)** ID 300310533

電線桿 **utility poles** ID 300006446

點景人物 **staffage** ID 300264353

八角尖塔 **broach spires** ID 300002362

教會學校  
淡江中學  
淡水

## Sources :

陳澄波，〈美術季—作家訪問記(十)〉，《台灣新民報》1936.10.19。（現收錄於顏娟英主編，《風景心境—台灣近代美術文獻導讀》，台北：雄獅，2001，頁164-165。

顏娟英，《臺灣美術全集1：陳澄波》(臺北市：藝術家，1992)，頁238。

林育淳，《油彩.熱情.陳澄波》(台北：雄獅，1998)，頁118-119。

曹慧如，〈同化政策教育的縮影——陳澄波〈岡〉1936〉，《識藝份子》第11期，頁201~218。

台史所檔案館編號

OCT1-08-001

Title

岡  
淡水中學

Creator

陳澄波(1895-1947)

Creation Date

1936

Dimensions Display

90cm x 116.5cm

Material and Technique

油彩、畫布  
Oil on canvas

Using AAT LOD to bridge between the descriptions of the artworks in the Chen collection and those in other collections in the world.

2015 LOD  
Publications



Union List of Artist Names (ULAN)<sup>®</sup>



Cultural Objects Name Authority (CONA)<sup>®</sup>



The J. Paul Getty Museum



**AATA Online** *Abstracts of International Conservation Literature*

**Joan Cobb**

IT Specialist Project Manager  
Information Technology Services

1200 Getty Center Drive  
Los Angeles, CA 90049

[jcobb@getty.edu](mailto:jcobb@getty.edu)



**The J. Paul Getty Trust**