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PREFACE

• Publications and online resources:
  • This presentation is a condensed introduction of the Getty vocabularies, AAT, TGN, ULAN, CONA, and IA
  • Editorial guidelines
  • Training materials
  • How to translate
  • Other materials

www.getty.edu/research/tools/vocabularies/index.html
For basic information on vocabularies, see *Introduction to Controlled Vocabularies* (Harpring, Baca editor, revised 2013) and its bibliography.

Defines the characteristics, scope, and uses of controlled vocabularies for art and cultural materials, and explains how vocabularies should be integrated in cataloging systems and utilized for indexing and retrieval.

- Available in hardcopy and online
- Translated in Portuguese in 2016
For basic information on cataloging and standards for art information, see *Categories for the Description of Works of Art* (CDWA), and *Cataloging Cultural Objects* (CCO), a subset of the CDWA.

Guidelines and the set of required “core” fields, among over 500 total fields, were the result of consensus of participants representing diverse professional communities from several nations: Art museums, art history community, archives, art libraries, special collections.

CDWA and CCO are complementary to the professional standards of their communities.

To inform use of other professional standards; maps to other standards.
Context of the Getty Vocabularies

Discover, link, access, retrieve, research, catalogue, index
Getty Vocabularies

Enabling digital art history

- **Art & Architecture Thesaurus**®
  AAT = includes generic terms, relationships, sources, and notes for work types, roles, materials, styles, cultures, and techniques (e.g., amphora, oil paint, olieverf, peintures à l’huile, acetolysis, 玉器, Jadekünste, sintering, orthographic drawings, Olmeca, Rinascimento, Buddhism, watercolors, asa-no-ha-toji)

- **Getty Thesaurus of Geographic Names**®
  TGN = includes names, relationships, and coordinates for current and historical cities, nations, empires, archaeological sites, lost settlements, and physical features; through LOD, TGN may be linked to GIS and maps (e.g., Diospolis, Acalán, Ottoman Empire, Mogao, Ch’ien-fu-tung, Ganges River, गंगा नदी)

- **Union List of Artist Names**®
  ULAN = includes names, relationships, notes, sources, and biographical information for artists, architects, firms, studios, repositories, patrons, sitters, and other individuals and corporate bodies, both named and anonymous (e.g., Mark Rothko, Cai Xiang,葵襄, Crevoile Master, Altobelli & Molins, Rajaraja Museum)

- **Cultural Objects Name Authority**®
  CONA = is a new resource linking rich metadata such as title, artist attribution, patron, materials, and location for works of art, architecture, and other cultural works, to allow a conduit for research and discovery (e.g., Mona Lisa, Livre de la Chasse, Chayasomesvara Temple, Hagia Sofia, Ayia Σοφία, Le déjeuner sur l’herbe)

- **Getty Iconography Authority**
  IA = is a new resource that includes proper names, relationships, and dates for iconographical narratives, religious or fictional characters, historical events, names of literary works and performing art (e.g., Adoration of the Magi, Flood of Deucalion, French Revolution, Xibalba, Niflheim, शिव, Shiva, Boualhaouché)
What are the Getty vocabularies?

- The Getty Vocabularies contain structured terminology for art, architecture, decorative arts, archival materials, visual surrogates, conservation, and bibliographic materials.
- Compliant with international standards, they provide authoritative information for catalogers, researchers, and data providers.
- The Getty Vocabularies strive to be ever more multilingual, multi-cultural, and inclusive. The vocabularies grow through contributions from institutions and projects comprising the expert user community.
- In the new linked, open environments, the Getty Vocabularies may provide a powerful conduit for research and discovery for digital art history.
What are the Getty vocabularies?

- The Getty vocabularies represent over 35 years of continuing international collaborative scholarship.

- From their inception, the Getty vocabularies were designed to be linkable to each other and to the broader realm of cultural heritage information. For example, in the AAT, concepts are linked to each other through hierarchical and associative relationships.

- With the release of the Getty Vocabularies as Linked Open Data (LOD) a few years ago, the Getty became a leader in advancing the possibilities of technology to enable research and discovery of information about art, architecture, conservation, and other cultural heritage.

- The Getty vocabularies are entering a new world of seemingly limitless possibilities in digital scholarship.
What are the Getty vocabularies?

- Target audience: The primary user communities and target audience of the Getty vocabularies include researchers in art and architecture, art libraries, archives, visual resource collection catalogers, museums, special collections, other repositories of cultural heritage information, conservation specialists, archaeological projects, bibliographic indexing projects, and the information specialists who attend to the needs of these users. In addition, a significant number of users of the Getty vocabularies are students or members of the general public.

- How the vocabularies are constructed: The AAT, ULAN, TGN, IA, and CONA are compiled resources that grow primarily through contributions from the expert user community, including large-scale international translation projects.
Vocabularies are used to index a work record

**Record Type:** item

**Classification:** prints and drawings

**Work Type:** •drawing •rendering  

**Title:** Bulto

**Creator Display:** rendered by Eldora P. Lorenzini (American, 1910-1993)

**Index:** Eldora P. Lorenzini (American, 1910-1993)

**Role:** rendered

**Materials display:** watercolor, pen, and ink on paper

**Index:** •watercolor •pen •ink  

**Dimensions:** overall: 55.9 x 40.2 cm (22 x 15 13/16 in.)

**Value:** 55.9  Unit: cm  Type: height  Value: 40.2  Unit: cm  Type: width

**Creation Date:** 1938  Start: 1938  End: 1938

**Current Location:** National Gallery of Art (Washington, DC, USA)

**Repository number:** 1943.8.16638

**Creation Location:** Santa Fe (New Mexico, USA)

**General Subject:** •another work •religion & mythology

**Specific Subject:**

•Bulto, Andrés García  

•sculpture •figures •bulto •farming •plow •oxen  

•St. Isadore
Vocabularies are used to index a work record
What Is a Thesaurus?

- Thesaurus: A semantic network of unique concepts
- Thesauri may be monolingual or multilingual
- Thesauri may have the following three relationships:
  - Equivalence Relationships
  - Hierarchical Relationships
  - Associative Relationships

**Objects Facet**

- Stirrup cups
- Coaching glasses
- Hunting glasses

**Hierarchical**

- Furnishings and Equipment
- Containers
- <cultural containers>
- <vessels for serving / consuming food>

**Associative**

- Equivalence
  - Rhyta
  - Rhyton
  - Rheas
  - Rheon
  - Rheons
  - Rrión

**Distinguished from**

- Rhytonsrhearheon
- Rheons
What Are the Getty Vocabularies:

Discover, link, access, retrieve, research, catalogue, index
AAT, the Art & Architecture Thesaurus®

The AAT is a thesaurus containing generic terms, dates, relationships, sources, and notes for work types, roles, materials, styles, cultures, techniques, and other concepts related to art, architecture, conservation, other cultural heritage.

- Generic terms, not proper names
  - oil paint, olieverf, acetolysis, sintering, orthographic drawings, Olmeca, Rinascimento, Buddhism, watercolors, asa-no-ha-toji, srailais
- AAT is multilingual; large translation projects are underway
- Conceptually organized from terms to describe abstract concepts to generic terms for concrete, physical artifacts
- Facets are the upper levels of the AAT structure
- AAT is not organized by subject matter or discipline

Brand Names
Sample record

**ID:** 300132869

**Terms:**
- bobbin lace (pref, en)
- bone lace (en)
- cushion lace (en)
- 梭心蕾絲 (zh)
- 線軸編織花邊 (zh)
- kloskant (nl)
- dentelle aux fuseaux (fr)
- encaje de bolillos (es)
- encaje de bolillo (es)
- Klöppelspitze (de)
- Klöppelspitzen (de)

**Associative Relationships**
- requires ... lace pillows (<textile fabricating tools and equipment>...Objects Facet) [300132869]

**Hierarchical Relationships (poly)**
- Objects Facet
  - Visual & Verbal Communication
  - Visual Works
  - visual works (works)
  - <visual works by material>
  - needlework (visual works)
  - lace (needlework)
  - bobbin lace

**Note:** With "needle lace," one of two primary types of handmade lace. It is characterized by being made by ...

**Chinese (traditional)**** 與「針織蕾絲(needle lace)」同為主要的手工蕾絲, 其特色是以纏繞於線軸或梭心...

**Dutch **** Een van de twee belangrijkste soorten met de hand vervaardigde kant; 'naaldkant' is ...

**German **** Zusammen mit der "Nadelspitze" eine der wichtigsten...

**Spanish **** Junto a "encaje a aguja", uno de los dos tipos principales de ...

**Contributors:** VP, CHIN, AS, RKD, IfM-SMB-PK, CDPB-DIBAM

**Sources:** Earnshaw, Clabburn, Needleworker's Dictionary (1976); Identification of Lace, 2d ed. (1984); Ginsburg, Illustrated History of Textiles (1991)
Contributors are cited

AAT records are merged information from multiple contributors

Getty Vocabularies grow through contributions from the expert user community

All information in a Getty Vocabulary record is attributed to a contributor and cites the published sources

- Getty Conservation Institute (Los Angeles, California)
- Academia Sinica (Nankang, Taiwan)
- Netherlands Institute for Art History (RKD: Bureau AAT) (The Hague, The Netherlands)
- Centro de Documentación de Bienes Patrimoniales (Dirección de Bibliotecas, Archivos y Museos) (Santiago, Chile)
- Staatliche Museen zu Berlin Preussischer Kulturbesitz (Berlin, Germany)
- [Canadian Heritage Information Network (CHIN) (Gatineau, Quebec, Canada), Istituto Centrale per il Catalogo e la Documentazione (Rome, Italy)(ICCD)] and other contributors of partial translations; future translations in French, Italian, Portuguese, other languages

bobbin lace (preferred, C,U,LC,English-P,D,U,P)
bone lace (C,U,English,UF,U,N)
cushion lace (C,U,English,UF,U,N)
lace, bobbin (C,U,English,UF,U,N)
pillow lace (C,U,English,UF,U,N)
核心蕾丝 (C,U,Chinese (traditional)-P,D,U,U)
緞緲編織花邊 (C,U,Chinese (traditional)-UF,U,U)
骨架花邊 (C,U,Chinese (traditional)-UF,U,U)
枕墊花邊 (C,U,Chinese (traditional)-UF,U,U)
suō xīn léi sī (C,U,Chinese (transliterated Hanyu)
so hsin lei ssu (C,U,Chinese (transliterated Wade-
klokkant (C,U,Dutch-P,D,U,U)
dentelle aux fuseaux (C,U,French-P,D,U,PN)
merletto a trombolo (C,U,Italian-P,D,U,PN)
encaje de bolillos (C,U,Spanish-P,D,U,PN)
encaje de bolillo (C,U,Spanish,AD,U,SN)
Klöppelspitze (C,U,German,AD,U,SN)
Klöppelspitzen (C,U,German-P,D,U,PN)
Thesaural structure

- Sub-facets (called “hierarchies”) establish the context of the term
- Guide terms in angled brackets

Work type: carte-de-visite
Thesaural structure

- Indexers may choose the term that best describes the work
- The concept and each term are identified by unique numeric IDs
- e.g., singular for a single item, language
- Some systems or local cataloging rules do not allow linking at the term level

**Work type:** carte-de-visite

**AAT subject_id** 300127141

cartes-de-visite (card photograph) (preferred, C,U,English,D,P,H,PN)
(fotografische kaarten) (Dutch-P,D,U,PN)
(photo graphicies) (French-P,D,U,PN)

**term_id 1000127141**
carte-de-visite (carte de visite) (C,U,English,AD,U,SN)

**term_id 1000299275**
carte de visite (card photographs) (C,U,English,UF,U,N)
carte de visite (card photograph) (C,U,English,UF,U,N)
carte de visite (carte-de-visite) (C,U,English,UF,U,N)
carte-de-visite photographs (C,U,English,UF,U,N)
sure cards (C,U,English,UF,U,N)

**term_id 1000271607**
Visitenkartenporträts (fotografische Abzüge) (C,U,German)
Visitenkartenporträt (fotografischer Abzug) (C,U,German)
tarjetas de visita (obra visual) (C,U,Spanish,P,D,U,PN)
tarjeta de visita (obra visual) (C,U,Spanish,AD,U,SN)

**term_id 1000438273**
ULAN, the Union List of Artist Names®

ULAN contains names, relationships, notes, sources, and biographical information for artists, architects, firms, studios, repositories, patrons, sitters, and other individuals and corporate bodies, both named and anonymous.

- Named people and corporate bodies
  Bartolo di Fredi, Xueshi Bai, 白雪石, National Palace Museum (Taipei)
- Anonymous creators known by appellation: Santa Eufemia Master
- Scope also includes “Non-Artists” (e.g., sitters and patrons)
- “Unknown People by Culture” (e.g., unknown Aztec)
- “Unidentified Named People” (e.g., known from archival documents)

- ULAN includes current and historical associative relationships (e.g., students to teachers; firm and studios to members)
- Contributions to ULAN are from experts at authorized institutions (e.g., museums, special collections, art libraries, cataloging projects, bibliographic projects, etc.)
### ULAN, the Union List of Artist Names®

#### Sample record

**ID:** 500060426  

**Names:**  
- Hokusai, Katsushika (pref, en, ja-trans, de)  
- Katsushika Hokusai (en, ja-trans)  
- Hokusai (en, ja-trans)  
- 葛飾 北斎 (ja)  
- Shunrō (en, ja-trans)  
- Tawaraya Sōri (en, ja-trans)  
- Kakō (en, ja-trans)  
- Tatsumasa (en, ja-trans)  
- Gakyōjin (en, ja-trans)  
- Taito (en, ja-trans)  
- lichi (en, ja-trans)  
- Manji (en, ja-trans)  
- Tokitarō (en, ja-trans)  
- 時太郎 (ja)  
- 葛飾北斎 (ja)

**Nationalities:** Japanese (pref)

**Roles:**  
- artist  
- printmaker  
- painter  
- designer  
- calligrapher  
- draftsman  
- landscapist  
- marine artist  
- figure artist  
- ukiyo-e artist

**Gender:** male

**Birth and Death Places:**  
- Born: Tokyo (Kanto, Japan) (inhab place)  
- Died: Tokyo (Kanto, Japan) (inhab place)

**Events:**  
- active: Tokyo (Kanto, Japan) (inhab place)  
- .......... in Edo, modern-day Tokyo

**Associative Relationships:**  
- teacher of Taito, Katsushika, II (Japanese printmaker, active ca. 1820-1850)  
- child of Nakajima Ise (Japanese mirror maker, 18th century)  
- possibly identified with Tōshūsai Sharaku (Japanese printmaker, active 1794-1795)

**Contributors:**  
- VP,Avery,GRL,BHA,CCA

**Sources:**  
- Bowie, Drawings of Hokusai (1964);  
- Grove Dictionary of Art online (1999-2002);  
- Library of Congress Authorities database (n.d.);  
- Metropolitan Museum of Art [online] (2003-);  
- Bouquillard, Hokusai: First Manga Master (2007)
TGN, the Getty Thesaurus of Geographic Names®

TGN focuses on places relevant to art, architecture, and related disciplines, recording names, relationships, place types, dates, notes, and coordinates for current and historical cities, nations, empires, archaeological sites, lost settlements, and physical features.

- Places relevant to art history
  *Thebes, Diospolis, Ottoman Empire, Mogao Caves, Ch’ien-fu-tung, Ganges*

- TGN is a structured vocabulary

- TGN is a thesaurus compliant with ISO standards

- Focus on historical regions, archaeological sites, lost settlements, built upon a skeleton of the modern world from NGA/NIMA and USGS data sets

- TGN is not GIS, is a thesaurus focused on names and links. Why invent the wheel over again? Many sources of geographic data exist. However, TGN may be linked to GIS, maps, and other geographic resources.
TGN, the Getty Thesaurus of Geographic Names®

Sample record

**ID:** 7011179

**Names:**
- Siena (it, en, es, fr, nl, de)
- Σίένα (el)
- Siyenah (zh)
- シェーナ (ja)
- Sienese (en-adj)
- Sienna (h-en)
- Sena Julia (h-la)
- Sanna (h)
- Saena (h)

**Hierarchical Rel. (polyhier.)**
- World (facet)
  - Europe (continent)
    - Italy (nation)
      - Tuscany (region)
        - Siena (province)
        - Siena (inhabited place)
  - World (facet)
    - Europe (continent)
      - Italian Peninsula (peninsula)
        - Etruria (former confederation)
        - Siena (inhabited place)
  - Historical: Late Etruscan

**Place Types**
- inhabited place, settled by Etruscans (founded by 5th century BCE)

**Place**
- city
  - archiepiscopal see
  - commune (administrative) since 1125
  - cultural center
  - university center
  - world heritage site

**AAT**

**Latitude:** 43 19 07 N (43.3100)
**Longitude:** 011 19 50 E (11.3300)
**Elevation:** 1056.430 feet (322.0000 meters)

**Note:** Siena was founded as an Etruscan hill town; later was the Roman city of Sena Julia (3rd century BCE). It flourished under the Lombard kings (6th century CE) and was a Medieval self-governing commune...

**Contributors:** BHA, FDA, GRLPSC, VP

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IA, the Getty Iconography Authority™

IA is a thesaurus that covers topics relevant to art, architecture, and related disciplines; includes multilingual proper names, relationships, and dates for iconographical narratives, religious or fictional characters, themes, historical events, and named literary works and performing arts.

- Includes the proper names of subjects not covered by other Getty Vocabularies
- Scope is multicultural and multilingual, grows through contributions
- Includes links to other sources where there is overlap, such as Iconclass and US Library of Congress subject authorities
- The IA is compliant with the Subject Authority of CDWA and CCO (*Categories for the description of Works of Art and Cataloging Cultural Objects*)
- The IA has a thesaural structure; it includes equivalence, associative, and hierarchical relationships
- The IA is linked to the other Getty Vocabularies
### Sample record

<table>
<thead>
<tr>
<th><strong>ID:</strong> 1000085</th>
</tr>
</thead>
</table>
| **Names:** Avalokiteshvara  
Avalokitēśvara  
अवलोकितेश्वर  
Spyan ras gzigs |

**AAT links**  
role/characteristic is ... bodhisattva  
symbolic attribute is ... lotus  
culture/religion is ... Mahayana (Buddhism)  
culture/religion is ... Theravada (Buddhism)

**Associative Relationships**  
associated with .... Krishna (Hindu iconography)  
counterpart is .... Guanyin (Buddhist iconography)

**Note**  
The bodhisattva of infinite compassion and mercy; embodies the compassion of all Buddhas. This bodhisattva is portrayed in different cultures as either female or male...

**Contributors & sources**  
[VP] Encyclopedia Britannica Online (2002-); Bowker, Oxford Dictionary of World Religions (1997); Huntington, Art of Ancient India (1985); LC: LC control no.: sh 85010492
CONA, the Cultural Objects Name Authority®

CONA compiles titles/names and other metadata for works of art, architecture, and other cultural works, current and historical, documented as items or in groups, whether works are extant, destroyed, or never built.

- In development, may be used to record works depicted in visual surrogates and for other purposes.
- CONA compiles titles, attributions, depicted subjects, and other metadata about works of art, architecture, and cultural heritage, both extant and historical works, works never built, disassembled works, conceptual works for multiples.
  
  *Hagia Sophia, Mona Lisa, Thirty-six Views of Mount Fuji, 富嶽三十六景*

- Scope is multicultural and multilingual; grows through contributions.
- CONA is linked to images; CONA is linked to the AAT, TGN, ULAN, and IA.
- Through this rich metadata and links, CONA may provide a powerful conduit for research and discovery for digital art history.
The Simplified entity-relationship diagram for CONA is the same as CDWA / CCO.
## Sample record

**ID:** 700001950  

**Titles:**  
Shiva met de maan in het haar (nl)  
Shiva with the Moon in his Hair (en)  

**Catalog Level:** item  

**Work Types:**  
sculpture (visual work)  

**Classifications:**  
sculpture (preferred)  

**Creation Date:** 1000/1200  

**Creator Display:**  
anoniem  
sculptor: unknown Chola  

**Locations:**  
Current: Rijksmuseum (Amsterdam, North Holland, Netherlands) AK-MAK-1291; RM001.collect.910; Bruikleen van de Vereniging van Vrienden der Aziatische Kunst  
Creation: Tamil Nādu (India)  

**Materials:** bronze founding  

**Dimensions:** 40 cm (height) x 24cm (width) x 10.5 (depth)  

**Events:** exhibition: Metamorfoze/Geheugenproject Willem Witsen  

**Cultures:**  
Indian  
Chola  

**General Subject:**  
human figure(s) (preferred)  
religion and mythology  

**Specific Subjects:**  
Shivá (Hindu iconography)  
mudrā (pose, <visual and representational concepts>)  

**Contributors & Sources:** [Rijksmuseum;VP]; Rijksmuseum XML file  

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CONA, the Cultural Objects Name Authority®

Sample record
Possible implementations of CONA

Movable works linked to architecture depicted

CONA ID 700000090  Class. architecture
Work Type: house
Title: Case Study House No. 21
Title: Bailey House  Title: CSH #21
Creator: architect: Pierre Koenig
Creation Date: 1956-1958; renovated 1998
Dimensions: 1 story, 1320 square feet, 4 rooms and 2 baths, on a 110 x 160 foot lot
Mat & Tech: steel frame and flat roof deck
Current Location: Los Angeles (California, USA)
Address Note: 34.116634 -118.391623; 038 Wonderland Park Avenue, Hollywood Hills, Los Angeles, 90046

CONA ID 7000008539 Work Type: architectural drawing
Title: Case Study House No. 21
Creator:  Pierre Koenig
Current Location: GRI Special Collections, Getty Center (Los Angeles, California) 2006.M.30-

CONA ID 70000120 Work Type: photograph
Title: Case Study House No. 21
Creator: Julius Shulman
Current Location: GRI Special Collections, Getty Center (Los Angeles, California); 2004.R.10-26622-32-LF

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### Possible implementations of CONA

**CONA ID:** 700002923  
**Catalog Level** item  
**Classification** architecture  
**Work Type** building complex | temple  
**Title/Name** Temple of Heaven (en)  
Tian Tan (zh-tr) | T’ien-t’an (zh-tr) | 天坛 (zh)  
| 天壇 (zh) | 天壇 (zh) | 천단 (ko)  
**Creator** [display] first built by Ming Chengzu (1360-1424); extended by Ming Shizong (1507-1567); renovated by Qianlong (1711-1799)  
**Creation Date** [display]: 1530, during Ming dynasty  
**General Subject** architecture  
**Type:** isness  
**Specific Earth** [TGN 7030638]  
**Extent:** dedication  
**Current Location** Beijing (Beijing Shi (municipality), China) (nation)  
**Address Note:** 39°57′05″N 116°24′36″E  
**Dimensions** [display] entire complex: 237 hectares  
**Mat & Tech** [display] wood and stone [wood AAT 300011914 | stone AAT 300011176]  
**Style:** Chinese [AAT 300018322] | Taoist [AAT 30014366]  
**Contributors** JPGM VP GRISC BWR  
**Sources** Built Works Registry BWR3792244; Library of Congress Authorities online (2002-); n2011019454; Fodor’s Travel (2016); J. Paul Getty Museum, collections online (2000-); Great Buildings Online (1997-)

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### Works linked to outside resources

*Merging information from multiple contributors*

- CONA ID uniquely identifies the work in CONA
- Links to other IDs, such as LOC, VIAF, BWR
### CONA ID: 700000178
**Catalog Level** item  
**Classification** paintings  
**Work Type** panel painting | altarpiece  
**Title** Adoration of the Magi  
**Creator** Bartolo di Fredi (Sienese painter, active by 1353, died 1410)  
**Creation Date** [display]  
1380s/1390s; some scholars date it ca. 1400 or later  
**Execution** Start Date 1380 End Date 1399  
**Alternative Date** Start Date 1395 End Date 1409  
**General Subject** religion and mythology | human figures  
**Specific** Adoration of the Magi | Extent: foreground |  
Siena | horses | Holy Family | gold | frankincense | myrrh |  
Journey of the Magi | Extent: background | king | deity | death | Epiphany | Three Ages of Man  
**Current Location** Pinacoteca Nazionale di Siena (Siena, Italy);  
**Repository No** no. 104  
**Dimensions** 195 x 158 cm (76 x 61 5/8 inches)  
**Mat & Tech** tempera on panel  
**Contributors** BHA VP CD PNS GRI-PA  
**Sources**  
Possible implementations of CONA

**IA ID 1000045**

- **Names**
  - Xibalba
  - Place of Fear

**AAT ID 300191778**

- **Terms**
  - skeleton [English]
  - beendergestel [Dutch]
  - esqueleto [Spanish]
  - squelette [Italian]
  - 骨架 [Chinese]

---

**CONA ID 70000012** Class: Pre-Colombian art

- **General Subject:**
  - religion and mythology [General Subject ID 31801]

- **Specific Subjects:**
  - Xibalba (Maya underworld) [IA 1000045]
  - Baby Jaguar (Maya character) [IA 901002211]
  - Chahk (Maya deity) [IA 901002210]
  - man (male human) [AAT 300025928]
  - skeleton (animal component) [AAT 300191778]
  - ax (weapon) [AAT 300024664]
  - altar [AAT 300003725]
  - death [AAT 300151836]
  - celebration [AAT 300152441]

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**Works linked to subjects depicted**

Value added: Contributions to CONA may be indexed for subject depicted access

OCLC survey, of core fields missing is subject depicted

Mining titles and text for subjects depicted, missing from museum data Controlled by AAT, ULAN, TGN, CONA, and IA

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Works depicted in visual surrogates

- What is advantage to linking to CONA for work depicted?
- Access for all surrogates for same work
- Multilingual access, links, etc.

Links

Enough information in surrogate records to make minimal record for work depicted
What Do We Do?

Discover, link, access, retrieve, research, catalogue, index
Processing records

• Contributors’ data is loaded and processed by the Getty Digital team and the Getty Vocabulary Program
• Data is merged, normalized, and published
• Exported data is refreshed for users every month
• Releases: Online search, Web services APIs, LOD, XML, and relational tables

At any time, could be 100s of thousands of candidate records, contributed but still in process

Editors have monthly quotas for work done
to allow anticipation of time frame for publications
to ensure not too much time is spent on unsolvable tasks
Coordinating contributions

• Nurturing relationships with contributors
• Advising re. mapping their existing data to format for loading into our editorial system
  E.g., Szeemann finding aids to ULAN
• Advising re. translation methodology and content issues
• Meetings and online conversations

The **International Terminology Working Group (ITWG)**—a collective of metadata and controlled vocabulary professionals and scholars from North America, Europe, Asia, and the Middle East—meet every year or so to discuss four AAT translation Projects (including the Dutch AAT), as well as new projects, the other vocabularies, and overall the challenges and opportunities in developing and maintaining multilingual electronic thesauri for use by cultural heritage institutions.
Merging data in one record

- Getty vocabularies merge contributed records representing the same concept
- Example from ULAN: Three contributions; are any of these records for the same person?
  Yes, 1st and 3rd rows
- Merged by algorithm, if possible; if not, merged by editors

<table>
<thead>
<tr>
<th>ULAN ID</th>
<th>Matching name</th>
<th>Display biography</th>
<th>Roles (AAT-controlled)</th>
<th>Nationality (AAT-controlled)</th>
<th>Estimated birth date</th>
<th>Estimated death date</th>
</tr>
</thead>
<tbody>
<tr>
<td>500017409</td>
<td>Guardi, Francesco</td>
<td>Venetian painter, 1712-1793</td>
<td>artist painter landscapist</td>
<td>Venetian Italian</td>
<td>1712</td>
<td>1793</td>
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<td>500312969</td>
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<td>1514</td>
<td>1614</td>
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<td>Italian artist, ca. 1712-1793</td>
<td>artist</td>
<td>Italian</td>
<td>1707</td>
<td>1793</td>
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</tbody>
</table>

A name matches exactly; role matches; a nationality matches; dates within range?
ULAN record is a merged, homogenous entity

Merging data in one record

Relationships and linking are built into and among the Getty vocabularies

ULAN record is a merged, homogenous entity

Merged in one record

Attribution to contributor and source is maintained, but merged and unified, and various “preferred” data is flagged

Contributors
AVERY, BHA, GRISC, GRL, GRLPA, PROV, VP, WCI, WCP, WL-Courtauld

Sources
Avery Authority files (1963-)
Harald Szeemann papers, Finding Aid, GRI Special Collections (2011-)
J. Paul Getty Museum, collections online (2000-)
Library of Congress Authorities database (n.d.) n 50074509
M. Knoedler & Co. records, Finding Aid, GRI Special Collections (2012-)
Provenance Index Databases, Authority file (1985-)
RILA/BHA (1975-2000)
Witt Library, Authority files

Note: Venetian painter, during the first half of his life on decorations and church paintings; later became vedutista (view painter) of Venetian urban life.

Names:
Guardi, Francesco (preferred, V, index, LC)
Francesco Guardi (V, display)
Gardi, Francesco (V)
Garde, Francesco (V)
Gardis, Francesco (V)
Gauda, Francesco (V)
Guada, Francesco (V)
Guarde, Francesco (V)
Guardet, Francesco (V)
Gvardi, Franchesko (V)
Guardi, François (V)
Guardi, Francisco (V)
Guardi, Francesco (Italian painter, 1712-1793)

Note: Venetian painter, during the first half of his life on decorations and church paintings; later became vedutista (view painter) of Venetian urban life.

Names:
- Guardi, Francesco (preferred, V, index, LC)
- Francesco Guardi (V, display)
- Gard, Francesco (V)
- Garde, Francesco (V)
- Gardis, Francesco (V)
- Gaud, Francesco (V)
- Guada, Francesco (V)
- Guad, Francesco (V)
- Guardet, Francesco (V)
- Gvardi, Franchesco (V)
- Guardi, François (V)
- Guardi, Francisco (V)

Contributors:
- Avery, BHA, GRLPA
- Courtauld
- Harald Szeemann Collections (2011-)
- J. Paul Getty Museum, collections online (2000-)
- Avery Authoritative (1963-)
- Library of Congress Authorities database (n.d.)
- M. Knoedler & Co. records, Finding Aid, GRI Special Collections (2012-)
- Provenance Index Databases, Authority file (1985-)
- RILA/BHA (1972-1985)
- Witt Library, Authority files

Nationalities:
- Italian (preferred)
- Venetian

Roles:
- artist (preferred)
- painter
- landscapist

Gender: male

Birth and Death Places:
- Born: Venice (Venezia province, Veneto, Italy) (inhabited place)
- Died: Venice (Venezia province, Veneto, Italy) (inhabited place)

Related People or Corporate Bodies:
- member of Guardi family (Italian painters, active 18th century) [500060865]
- parent of Guardi, Giacomo (Italian painter, 1764-1835) [500023608]
- sibling by marriage (in-law) of Tiepolo, Giovanni Battista (Venetian painter, 1696-1770) [500018523]
- Cecilia Guardi married Tiepolo in 1719
- sibling of Guardi, Antonio (Italian painter, 1699-1760) [500025094]
- sibling of Guardi, Niccolò (Italian painter, 1715-1785) [500029088]
Using data

- Online Web searches
- Access to training materials and editorial guidelines
- Highest number of pages accessed at GRI every month (17,000 page views, 200,000 queries)
- Among the highest at Getty overall
- Demonstrating usefulness is important to proving the value of the project, re. budgets, etc.

- In addition, Getty Vocabularies released as LOD with very high use
- AAT and other vocabs available at satellite sites and in vendor systems

<table>
<thead>
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<th>No.</th>
<th>Page</th>
<th>Views</th>
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<td>2</td>
<td>Vocabs: ULAN</td>
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<td>Vocabs: TGN</td>
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<td>Exhibition: monumentality</td>
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<td>15</td>
<td>Vocabs: CDWA (cataloging rules for art)</td>
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</tr>
</tbody>
</table>
Using data

- Vocabulary data is licensed and used by hundreds of institutions and vendors
- Collections management systems (e.g., TMS)
- We contribute to VIAF
- Now linking vocabulary data in LOD in hundreds or thousands of new ways

GRI (with ULAN and TGN) contributes to VIAF, the Virtual International Authority File.

Link to other sources in Linked Open Data