For basic information on vocabularies, see *Introduction to Controlled Vocabularies* (Harpring, Baca editor, revised 2013) and its bibliography.
What Are the Getty Vocabularies?

AAT      TGN      ULAN      CONA

www.getty.edu/research/tools/vocabularies/index.html
What are the Getty vocabularies?

- *Catherine wheel* or *rose window? Mona Lisa* or *La Gioconda?*

- The AAT, TGN, and ULAN contain multilingual terminology and other related data to describe
  - visual art, architecture, other cultural heritage works, conservation, archaeology, archival materials, visual surrogates, and related bibliographic materials
What are the Getty vocabularies?

- *Catherine wheel* or *rose window*? *Mona Lisa* or *La Gioconda*?
- CONA is linked to AAT, TGN, and ULAN
- CONA compiles titles, attributions, depicted subjects, and other metadata about works of art, architecture, and cultural heritage, both extant and historical. Metadata is gathered or linked from museum collections, special collections, archives, libraries, scholarly research, and other sources
- Through rich metadata and links, it is hoped that CONA will provide a powerful conduit for research and discovery for digital art history and related disciplines
The Getty Vocabularies

Discover, link, access, retrieve, research, catalogue, index
Explore art, architecture, cultural heritage, conservation, archaeology, and beyond

- Getty vocabularies are valued as authoritative
  - Grow through contributions from experts
  - Contributors and sources are cited

- Compiled, merged, edited, and published by the Getty Vocabulary Program and our technical team

- Data is made available in various ways: via online searching; relational tables, XML format, Web services APIs
  - Now as Linked Open Data: structured and published to make it openly accessible and shareable on the Semantic Web
    - Open Data Commons Attribution License (ODC-By) v1.0
    - Allows sharing, creation, adaptation of data with attribution

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The Getty Vocabularies

Search Tools & Databases
- Primo Search
- Getty Research Portal
- Collection Inventories & Finding Aids
- Photo Archive
- Research Guides & Bibliographies
- Digital Collections
- Article & Research Databases
- Collecting & Provenance Research
- DHA & RILA
- Getty Vocabularies
  - Art & Architecture Thesaurus (AAT)®
  - Cultural Objects Name Authority (CONA)®
  - Getty Thesaurus of Geographic Names (TGN)®
  - Union List of Artist Names (ULAN)®
- Contribute
- Editorial Guidelines
- Getty Vocabularies as Linked Open Data
- Frequently Asked Questions
- Obtain the Getty Vocabularies

Getty Vocabularies as Linked Open Data

The Getty vocabularies are constructed to allow their use in linked data. A project to publish them to the LOD (Linked Open Data) cloud is underway. The documents on this page contain news and presentations about releasing the Getty vocabularies as LOD. These materials are subject to frequent modification and addition.

- News and Status of the Project
- What is LOD?
- Introduction to Getty Vocabularies as LOD (PDF, 3.8 MB, 46pp)
- List of External Advisors (PDF, 86KB, 7pp)

The AAT, TGN, and ULAN are now available as LOD. They are published under the Open Data Commons Attribution License (ODC-BY) 1.0.

- Attention developers and programmers:
  Technical documentation to assist in exploring the AAT, TGN, and ULAN data is available at the SPARQL endpoint at vocab.getty.edu

News and Status of the Project

Releasing the Getty vocabularies as Linked Open Data is part of the Getty's ongoing effort to make our knowledge resources freely available to all. Making the Getty...
The Getty Vocabularies

Discover, link, access, retrieve, research, catalogue, index
Explore art, architecture, cultural heritage, conservation, archaeology, and beyond

- Getty vocabularies are thesauri compliant with national (NISO) and international (ISO) standards for thesaurus construction
- They are compliant with / map to other standards:
  - CDWA (Categories for the Description of Works of Art)
  - CCO (Cataloging Cultural Objects)
  - VRA Core (Visual Resources Association core categories)
  - LIDO (Lightweight Information Describing Objects)
  - etc.
Features that allow the Getty vocabularies to be used in cataloging, retrieval, and linking

- Each Getty vocabulary record, each term, and other data are identified by **unique numeric IDs**
- Many other fields are controlled by lookup lists
- The vocabularies are linked to each other
- The vocabularies share a core data structure
Scope and Content of the Getty Vocabularies

AAT      TGN      ULAN      CONA
AAT, the Art & Architecture Thesaurus®
Generic terms for describing art and architecture (fine art, built works, decorative arts, other material culture, visual surrogates, archival materials, archaeology, and conservation) (e.g., oil paintings, Baroque, lithographers, sintering). Current totals: 36,000 records; 245,000 terms

- 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
AAT, the Art & Architecture Thesaurus®

**Thesaural relationships**

**hierarchical**

- stirrup cups
- coaching glasses
- hunting glasses
- **associative**
  - sturzbechers
  - Sturzbecher
  - stortebekers

**equivalence**

- rhyta
- rhyton
- rhytons
- rhea
- rheon
- rheons
- ritón

Distinguished from rhyta

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### 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)
- 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
TGN, the Getty Thesaurus of Geographic Names®

Names, other information for current & historical administrative places (cities, nations, empires) and physical features (e.g., Firenze, Roman Empire, Ganges River).
Current totals: 1,241,000; 1,800,000 names

- It includes formerly inhabited places, archaeological sites, and historical places with unknown exact locations (i.e., “lost settlements”)
- It focuses on places important to study of art and related disciplines
- It grows through contributions from large national geographic databases, the expert user community, archaeology projects, scholars, etc.
TGN, the Getty Thesaurus of Geographic Names®

Sample record

**ID:** 7011179

**Names:**
- Siena (it,en,es,fr,nl,de)
- Сиена (el)
- Siyenah
- 锡耶纳 (zh)
- シエーナ (ja)
- Sienese (en-adj)
- Sienna (h-en)
- Sena Julia (h-la)
- Sauna (h)
- Saena (h)

**Hierarchical Rel.s. (polyhier.)**
- World (facet)
  - Europe (continent)
    - Italy (nation)
      - Tuscany (region)
        - Siena (province)
          - Siena (inhabited place)
  - 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)
  - City
  - Archdiocesan see
  - Commune (administrative) since 1125
  - Cultural center
  - University center
  - World heritage site

**Images by** be under additional copyright

**Lat.:** 43 19 07 N (43.3180)  
**Long.:** 11 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 Medieval self-governing commune ...

**Contributors:** BHA, FDA, GRL, PSC, VP


**Associative Rel.s:**
- Ally of Pisa... (inhabited place) [7006082]
  - Ghibelline allies, 13th-14th centuries
ULAN, the Union List of Artist Names®

Names, other information for people (artists, patrons, sitters) and corporate bodies (repositories, studios) related to the design, creation, patronage, collection, conservation, etc. of art, architecture, and other cultural materials (e.g., Bartolo di Fredi, Santa Eufemia Master, National Palace Museum)

Current totals: 223,000 records; 582,000 names

- ULAN includes current and historical associative relationships (e.g., student-teacher, firm-member)
- Contributions to ULAN are from experts (museums, art libraries, cataloging projects, etc.)
- ULAN contributes to the Virtual International Authority File (VIAF) (joint project with US Library of Congress and numerous libraries worldwide to combine name authority)
Within the last several years the scope has grown to include “Non-Artists” (e.g., sitters and patrons) and “Unknown People by Culture” (e.g., unknown Aztec) [different from anonymous masters, e.g., Santa Eufemia Master]

The newest facet is “Unidentified Named People”

For the most part, includes people named in original sources, such as archival documents and inventories.

Their name or partial name is known, they are linked to the document (if linked to a work, the work is often unidentified), but their biography is unknown and thus they cannot be associated with a known person or anonymous personality.
### ULAN, the Union List of Artist Names®

#### Sample record

**ID:** 500115493

**Names:**
- Dürrer, Albrecht (pref,de,en)
- Albrecht Dürrer
- Duerer, Albrecht (en)
- Durer, Albrecht (en)
- Dürrero, Alberto (it)
- Durerus, Albertus (la)
- Direr, Albreht
- Djurer, Albrecht
- Důrē, Albrecht
- Đờērs, Albrehts
- Alberto Duro Tedesco
- デューラー, アルブレヒト (ja)
- 阿爾布雷希特·丢勒 (zh)

**Nationalities:**
- German (pref)
- Bavarian

**Roles:**
- artist (preferred)
- painter
- printmaker
- engraver (printmaker)
- woodcutter
- draftsman
- illustrator
- designer
- mathematician
- theorist
- portraitist
- religious artist

**Gender:** male

**Birth and Death Places:**
- Born: Nuremberg (Bavaria, Germany) (inhab pl)
- Died: Nuremberg (Bavaria, Germany) (inhab pl)

**Events:**
- active: Nuremberg (Bavaria, Germany) (inhab pl)
- active: Venice (Veneto, Italy) (inhabited place)

**Associative Relationships:**
- apprentice of Wolgemut, Michael; 1486 to 1489
  (German painter, printmaker, 1434/1437-1519)
- child of Dürer, Albrecht, the elder
  (German goldsmith, 1427-1502)
- founder of Albrecht Dürer Workshop
  (German workshop, established 1495)
- patron was Maximilian I, Holy Roman Emperor
  (Roman emperor, 1459-1519)

**Contributors:**
- VP,JPGM,Avery,WCI,Prov,GRLPSC,BHA,CCA

**Sources:**
- Bartrum, Albrecht Dürer and his Legacy (2002);
  Bénézit, Dictionnaire des Peintres (1976;
  Bartsch, Le peintre graveur.
Merging records
Finding matches
Manual or automated merge, vetted by VP editors

Names

Palamedesz., Anthonie
Dutch painter, active mid-17th century

Palamedes, Anthonie

Pallemedes, Anthonie
Netherlandish artist, 1601-1673
http://viaf.org/

Similar algorithms used by VIAF

Select Field: All Headings
Select Index: All VIAF
Search Terms: bartolo di fredi

6 headings found for bartolo di fredi

1. Bartolo, di Fredi, 1330-1410
   Bartolo di Fredi, Battiloni 1330-1410
   Bartolo 1330-1410 di Fredi
   Bartolo, di Fredi, ca.1330-1410
   Fredi, Bartolo Di
   Bartolo Di Fredi

2. Andrea, di Bartolo, 1426
   Andrea di Bartolo
   Andrea di Bartolo (Sienese painter, active by 1389, died 1428)
   Bartolo, Andrea di

3. Bartolo di Fredi (Sienese painter, active by 1353, died 1410)

4. Andrea di Bartolo 1389-1428

5. Bartolo Di Fredi

6. Bartolo di Fredi 1330-1410 Rebele de la Trinité
CONA, the Cultural Objects Name Authority®

Titles, attributions, styles, locations, other information for moveable works (paintings, sculpture, prints, drawings, photographs, ceramics, etc.) and architecture (buildings, bridges, etc.) (e.g., *Hagia Sophia, Mona Lisa, Fantastic Landscape with a Pavilion*).

Current totals: [in development]

- It includes works executed or designed (e.g., a built work for which only design drawings exist); extant or destroyed / historical
- It is linked to AAT, TGN, and ULAN
- CONA is a resource containing and linking to metadata about works
- It is mapped to CDWA, CCO, CIDOC CRM, and LIDO
- CONA grows through contributions from repositories of art and the expert cataloging and scholarly community
- Through rich metadata and links, it is hoped that CONA will provide a powerful conduit for research and discovery for digital art history and related disciplines
The Simplified entity-relationship diagram for CONA is the same as CDWA / CCO
**What is a minimum record for contribution?**

<table>
<thead>
<tr>
<th>Core elements</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Catalog Level</strong></td>
<td>item</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>paintings</td>
</tr>
<tr>
<td><strong>Work Type</strong></td>
<td>painting (visual work)</td>
</tr>
<tr>
<td></td>
<td>scroll (information artifact)</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Scene of Early Spring</td>
</tr>
<tr>
<td></td>
<td>宋郭熙早春圖 軸</td>
</tr>
<tr>
<td><strong>Creator</strong></td>
<td>Guo Xi (Chinese painter, 1023 - ca.1085 CE)</td>
</tr>
<tr>
<td><strong>Creation Date</strong></td>
<td>1072 CE</td>
</tr>
<tr>
<td><strong>Subject</strong></td>
<td>(general) landscape</td>
</tr>
<tr>
<td></td>
<td>(specific)</td>
</tr>
<tr>
<td><strong>Current Location</strong></td>
<td>National Palace Museum (Taipei, Taiwan)</td>
</tr>
<tr>
<td></td>
<td>ID: 000053N0000000000</td>
</tr>
<tr>
<td><strong>Measurements</strong></td>
<td>158.3 x 108.1 cm</td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td>painted scroll</td>
</tr>
</tbody>
</table>

*Instructions are available to contributors for defaults when core data is unavailable.*
CONA contains links to artists and patrons, style, dates, locations, studies and other related works, bibliography, and the subjects depicted in the works.

CONA can merge information from various sources and contributors about a given architectural or movable work, and provide a unique ID for that work in LOD.

- Information from the repository of a work will be preferred (e.g., attribution), but other opinions and additional information of scholars could be included.

CONA provides unique, persistent numeric identifiers for the work and all of its associated information, allowing disambiguation between similar works and authoritative identification of the work in a linked environment.

CONA can facilitate linking between works, including works held in different repositories but having historical relationships (e.g., studies, disassembled manuscripts, etc.).

CONA can provide a record for lost and destroyed works.

CONA contains links to images of the works.
CONA ID: 700000178
Catalog Level: item
Classification: paintings
Work Type: panel painting | altarpiece
Title: Adoration of the Magi
    Adorazione dei Magi (repository title)
Creator: Bartolo di Fredi (Sienese painter, active by 1353, died 1410)
Creation Date: ca. 1385
Subject (general): religion and mythology
    allegory | human figures
(specific): Adoration of the Magi | Siena | horses | camels | Magi | retinue | Holy Family | Journey of the Magi | gold | frankincense | myrrh | kingship | godship | death
Current Location: Pinacoteca Nazionale di Siena (Siena, Italy); ID: no. 104
Measurements: 195 x 158 cm (76 x 61 5/8 inches)
Materials: tempera on panel
Contributors:
Sources:

CONA merges information from multiple sources in one record

- CONA ID uniquely identifies the work in LOD world
- Repository title is flagged, others included
- Date of execution is in dispute: The display of the CONA record prefers the date espoused by the Repository, but the other scholarly opinions are included elsewhere in the record

Images may be under additional copyright
**Catalog Level**  item

**Classification**  vessels

**Work Type**  vase

**Title**  Blue and White Glazed Globular Vase

**Creator**  unknown Chinese

**Creation Date**  1403/1424 CE

**Subject (general)**  object (utilitarian)

**Subject (specific)**  | animal | dragon

**Current Location**  National Palace Museum (Taipei, Taiwan)  ID: 012547N000000000

**Measurements**  42.9 cm high and 9.7 cm diameter; foot diameter 15.8 cm

**Materials**  blue and white porcelain  | porcelain (material) | blue-and-white (ceramic glaze)

---

**CONA could link work records to Getty vocabularies**
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

**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

ID: 700000141
Titles/Names:
Hagia Sophia (en, de, nl)
Ayasofya (tr)
Αγία Σοφία (el)
Agia Sophia
Hagia Sophia
Saint-Sophie (fr)
Santa Sofia (es)
Santa Sofia (it)
Sancta Sophia (la)
Sancta Sapientia (la)
Holy Wisdom (en)
Saint Sophia (en)
聖蘇菲亞大教堂 (zh)

Work Types: church; mosque; museum
Date: original structure dated from 4th century CE; present structure built 552-537 CE; rebuilt in 12th century
Creators: Anthemios of Tralles (Byzantine architect, ca. 474-ca. 534) and Isidoros of Miletus, the Elder (Byzantine architect, active mid-6th century); Patron: Justinian I (Byzantine emperor, ca. 482-565)

Location: Istanbul (Marmara, Turkey)
Address Note: 41.008548°N; 28.97938°E
Materials: system bearing masonry, centralized plan; interior surfaces are sheathed with polychrome marble, porphyry, and mosaics
Dimensions: central dome: diameter 31 m (102 feet); height 56 m (184 feet)
General Subject: architecture
Specific Subject: Holy Wisdom; Religion/Mythology

Note: Dromed basilica was commissioned by the Emperor Justinian; built in Constantinople in 6th century...

Contributors: Avery, BHA, FIA, VP
Since CONA is linked to the other vocabularies, it is necessary to match incoming values to the AAT, ULAN, TGN, and CONA Iconography Authority when loaded.

The CVA/Processor was developed in-house for editors to use where auto-links are not possible.

Such a tool for contributors should be investigated.

### CONA record, creator

<table>
<thead>
<tr>
<th>Person/Corp Label</th>
<th>ULAN ID</th>
<th>Role</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Koenig, Pierre (American architect, 1925-2004)</td>
<td>500086520</td>
<td>architect/30010</td>
<td></td>
</tr>
</tbody>
</table>
CONA, the Cultural Objects Name Authority®

- CONA could link depicted subjects

- Whereas libraries have a tradition of cataloging the subjects of works
- Many art museums typically do not index subject matter depicted in / represented by works
  - [sitters, places, events, iconographical themes, dedication of certain buildings, etc.]
  - In a survey conducted of American art museums’ data, of the core fields (agreed by consensus in CDWA, CCO, etc.), all museums included all core fields except the subject by OCLC (Online Computer Library Center, a nonprofit computer library service and research organization); core fields per CCO and CDWA (Categories for the Description of Works of Art)
CONA, the Cultural Objects Name Authority®

- CONA could link depicted subjects

Index three levels of subject analysis

- Objective **description**
- **Identification** of named subject
- **Interpretation** of the meaning or theme

- For such subject indexing: CONA can link to AAT, TGN, ULAN, CONA itself, and the CONA Iconography Authority
- As well as to other sources for subjects, such as the US Library of Congress authorities and Iconclass (we intend to work closely with Iconclass, a Dutch classification system, www.iconclass.nl/)
General subject is an extensible controlled list, originally derived from CDWA and CCO

One term for general subject is the minimum required

Additional terms to describe the specific subject are strongly encouraged

How to supply values when missing in large data sets? Title and notes could be mined, parsed, mapped to vocabularies, checked by editors as necessary
CONA, the Cultural Objects Name Authority®

<table>
<thead>
<tr>
<th>Depicted Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
</tr>
<tr>
<td>architecture</td>
</tr>
<tr>
<td><strong>Specific</strong></td>
</tr>
<tr>
<td>San Lorenzo (built work, Florence, Italy)</td>
</tr>
<tr>
<td>church</td>
</tr>
<tr>
<td>façade</td>
</tr>
<tr>
<td>elevation</td>
</tr>
<tr>
<td>plan</td>
</tr>
</tbody>
</table>

Plan and Elevation of the façade of San Lorenzo; drawing; Aristotile da Sangallo after Michelangelo; late 15th century; 32.0 x 21.5 cm (12 1/2 x 8 3/8 inches); pen and sepia ink; Staatliche Graphische Sammlung (Munich, Germany) #33258.

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CONA, the Cultural Objects Name Authority®

Depicted Subjects

General
religion and mythology
human figure(s)

Specific
bodhisattva . . . . . . . AAT
Avalokiteshvara. CONA IA
Maitreya . . . . . . . . . . . . CONA IA
compassion . . . . . . . . . AAT
The CONA Iconography Authority
Named events, religious/mythological iconography, fictional characters and places, themes from literature

- Includes the proper names of subjects not covered by other Getty vocabularies
- The CONA Iconography Authority (IA) is a module within CONA; over time, it could become a stand-alone authority through contributions
- Includes links to other sources, such as Iconclass and the US Library of Congress subject authorities
### Sample record

**ID:** 1000085

**Names:**
- Avalokiteshvara
- Avalokiteśvara
- अवलोकितेश्वर
- Kannon
- Guanyin
- Guānzìzāi
- 觀自在
- 觀音
- 觀音菩薩

**AAT link:**
- role/attribute bodhisattva
- role/attribute Lotus (genus)
- related to Mahayana Buddhism
- related to Theravada Buddhism

**Associative Relationship:**
- associated with .... Krishna (Hindu iconography)

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

**Contributors & sources**

**Iconclass:** no  
**LC:** LC control no.: sh 85010492
CONA, the Cultural Objects Name Authority®

Relationships in CONA

- CONA could provide links between works
  - Whole/part relationships for groups, subgroups, items
  - CONA can accommodate links that a repository would maintain

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Traveling Tea Service
- Teapot
- Tea Caddy
- Japanese Imari Sugar Bowl and Cover
- Chinese Famille-Verte Tea Bowl and Saucer
- Silver-mounted Scent Flask
- Two Spoons
- Wooden Box

Create separate records when each part of a work contains enough unique information so that it would be difficult to clearly delineate the information in a single record. Repositories decide when separate records may be necessary to manage the works.

Traveling tea service; probably Martin Berthe (French silversmith, master 1712); 1728/1729; silver and ebonized wood, porcelain, glass; various dimensions; Museum of Fine Arts (Boston, Massachusetts); 1993.520.1-8

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CONA, the Cultural Objects Name Authority®

Relationships in CONA

- Whole/Part Records for a series and items (conceptual relationship)

Great Wave at Kanagawa; Katsushika Hokusai (Japanese, 1760-1849); published by Nishimura Eijudo (Japanese, 19th century); woodcut, polychrome ink and color on paper; 25.7 x 37.9 cm (10 1/8 x 14 15/16 inches); Metropolitan Museum of Art, New York, New York, USA), JP1847.
CONA, the Cultural Objects Name Authority®

Relationships in CONA

Record Type: multiples
Classification: prints and drawings
Work Type: drypoints
Title: Christ Presented to the People
Creator: Rembrandt van Rijn (Dutch, 1606–1669)
Description: Rembrandt treated this large drypoint almost as a painting, making marked changes to the composition as he reconceived …

- Multiples: For example, prints made from the same plate
- Each print is described as a unique item; then linked to a record for the multiples
- (conceptual relationship)
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Relationships in CONA

- Catalog Level: multiples
- Classification: prints and drawings
- Work Type: drypoints
- Title: Christ Presented to the People
- Creator: Rembrandt van Rijn (Dutch, 1606–1669)
- Description: Rembrandt treated this large drypoint almost as a painting, making marked changes to the composition as he reconceived …

- State: 1
- State: 2
- State: 3
- State: 4
- State: 5
- State: 6
- State: 7
- State: 8

- Combine relationships with inferred relationships in other fields to expand research
- E.g., to compare different items representing various states of this print

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Classification  architecture
Work Type  memorial

Titles  Lincoln Memorial
Creator  architect Henry Bacon (American, 1866-1924) and sculptor Daniel Chester French (American, 1850-1931)
Creation Date  designed 1911-1912; constructed 1914-1922

Subject (general)  architecture
(specific)  commemoration | Abraham Lincoln

Current Location  Washington (DC, USA)
Measurements  not available
Materials  exterior: Colorado Yule marble, interior walls and columns: Indiana limestone

- Work record for a built work describes a physical work
- But designs may represent works never constructed (conceptual relationship to a nonexistent work)
These competition designs are works that were never constructed (conceptual relationships to a nonexistent work, which had architect and proposed physical characteristics such as materials, measurements, etc.)
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Relationships in CONA

- CONA could virtually reconstruct disassembled works
- Held in different repositories or locations
- Manuscripts, paintings, sculpture, architecture, etc.

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Relationships in CONA

Associative relationships may also allow related works in different repositories to be linked for research and discovery.

Jean-Auguste-Dominique Ingres; Study for the Dress and the Hands of Madame Moitessier; 1851; graphite on tracing paper; 13 15/16 x 6 5/8 inches; J. Paul Getty Museum (Los Angeles, California); 91.GG.79

Jean-Auguste-Dominique Ingres; Madame Moitessier; 1851; Samuel H. Kress Collection, National Gallery of Art (Washington, DC); 1946.7.18

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Many complex relationships are possible
- Built work – dome – design drawing – record drawing – model

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Getty Vocabularies to LOD: Usage and Editorial Perspective

AAT      TGN      ULAN      CONA
How are vocabularies used?

- Traditional use of vocabularies for retrieval focuses on the names
  - If a user asks for one name/term, all of the synonyms can be used for retrieval
  - For example, if a user searches on “Giovanni da Bologna”...

  "giambologna" OR “giovanni da bologna” OR “giovanni bologna” OR “jean boulogue” OR “bologna, giovanni da”

From ULAN

Giambologna
Giovanni da Bologna
Giovanni Bologna
Jean Boulogne
Jean de Boulogne
Bologna, Giovanni da
New methods and LOD can incorporate hierarchical and associative relationships, and other links or inferred relationships to answer more complex questions and aid serendipitous discovery.

**Giambologna** *(Flemish sculptor and architect, 1529-1608, active in Italy)*

**Marie de Medici** *(French queen, patron, 1573-1642)*

**Tacca, Pietro** *(Italian sculptor and architect, 1577-1640)*

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**Display Date:** from 1592  
**Start Date:** 1592  
**End Date:** 1608
The Getty vocabularies have always been compiled by experts
- Using authoritative sources
- Rules in extensive editorial manuals

Seen through the LOD lens, any inconsistency or omission becomes ever more obvious

 Getty Vocabulary Program analyzes and cleans up of the data for LOD releases

Editorial perspective: LOD
• From conceptual to actual links

• Lookup lists had been based on AAT, but had gotten out of sync with AAT over the years

• E.g., nationalities, roles in ULAN and place types in TGN must map to AAT terms
Many links cannot be made automatically

Matching ULAN Nationality to AAT

- Nationality/ Culture/ Race/ Ethnicity in ULAN was conceptual, now needed to be linked to AAT
- Certain matches must be resolved by hand

Example:

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<th>code</th>
<th>Nat/Culture ULAN</th>
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<td>Burgundian (Migration)</td>
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<td>Merovingian (scripts)</td>
<td>300001476</td>
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<td>Frankish</td>
</tr>
</tbody>
</table>

This hessian is bad match, type of burlap