Union List of Artist Names®
Introduction and Overview

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Getty Vocabulary Program

Revised April 2016
# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface 3</td>
<td>3</td>
</tr>
<tr>
<td>ULAN in Context 4</td>
<td>4</td>
</tr>
<tr>
<td>...The Getty Vocabularies 5</td>
<td>5</td>
</tr>
<tr>
<td>...Core Data Structure 11</td>
<td>11</td>
</tr>
<tr>
<td>What Is ULAN? 15</td>
<td>15</td>
</tr>
<tr>
<td>...Sample Record 18</td>
<td>18</td>
</tr>
<tr>
<td>...Scope of ULAN 21</td>
<td>21</td>
</tr>
<tr>
<td>...Users of ULAN 26</td>
<td>26</td>
</tr>
<tr>
<td>Data Elements 27</td>
<td>27</td>
</tr>
<tr>
<td>...List of Fields 28</td>
<td>28</td>
</tr>
<tr>
<td>...Names/Equivalence Relationship 35</td>
<td>35</td>
</tr>
<tr>
<td>...Associative Relationship 69</td>
<td>69</td>
</tr>
<tr>
<td>...Hierarchical Relationships 72</td>
<td>72</td>
</tr>
<tr>
<td>...Biography 76</td>
<td>76</td>
</tr>
<tr>
<td>......Life Dates 80</td>
<td>80</td>
</tr>
<tr>
<td>......Role 83</td>
<td>83</td>
</tr>
<tr>
<td>......Nationality 86</td>
<td>86</td>
</tr>
<tr>
<td>...Events, Activity 89</td>
<td>89</td>
</tr>
<tr>
<td>...Descriptive Note 91</td>
<td>91</td>
</tr>
<tr>
<td>...Sources 92</td>
<td>92</td>
</tr>
<tr>
<td>Recent Editorial Issues 93</td>
<td>93</td>
</tr>
<tr>
<td>Contributions to ULAN 101</td>
<td>101</td>
</tr>
<tr>
<td>Utilizing ULAN 107</td>
<td>107</td>
</tr>
<tr>
<td>...Displays 108</td>
<td>108</td>
</tr>
<tr>
<td>...How are vocabularies used? 109</td>
<td>109</td>
</tr>
<tr>
<td>...Linked Open Data 113</td>
<td>113</td>
</tr>
</tbody>
</table>
Preface

• This presentation is an overview of ULAN

• ULAN is available in an online search interface, licensed as XML and relational tables, and as Linked Open Data (LOD)
  http://www.getty.edu/research/tools/vocabularies/ulan/index.html

• For a full discussion of fields and editorial rules, see the ULAN Editorial Guidelines
  http://www.getty.edu/research/tools/vocabularies/guidelines/index.html#tgn

• For the history of ULAN, see About ULAN
  http://www.getty.edu/research/tools/vocabularies/ulan/about.html

• Questions? Contributions? Send an email to us at vocab@getty.edu
Union List of Artist Names

ULAN in Context

Enabling research and discovery for digital art history
The Getty Vocabularies

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

What are the Getty vocabularies?

*Catherine wheel* or *rose window? Giambologna* or *Giovanni da Bologna?*

- Scope includes visual art, architecture, other cultural heritage works, conservation, archaeology, archival materials, visual surrogates, and related bibliographic materials
- The AAT, TGN, and ULAN contain multilingual terminology and other related data
- CONA is a resource in development, linking rich metadata for works from multiple sources and contributors
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
The Getty Vocabularies

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

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
- BHA & 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

Getty Vocabularies as Linked Open Data

The Getty vocabularies are constructed to allow their use in linked data. A project to publish AAT, TGN, ULAN, and CONA 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, 40pp)
- Linked Open Data Flier (PDF, 1 MB, 1pp)
- List of External Advisors (PDF, 8 KB, 7pp)

The AAT and TGN are now available as LOD. They are published under the ODC-by 1.0 license.

- Developers and programmers, technical documentation to help you explore the AAT and TGN data is available at the SPARQL endpoint at vocab.getty.edu
The Getty Vocabularies

- 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.
The Getty Vocabularies

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

- 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
ULAN in context
enabling digital art history

- **Art & Architecture Thesaurus ®**
  AAT = terms for generic concepts, relationships, other data
  - (e.g., watercolors, 玉器, amphora, asa-no-ha-toji)

- **Getty Thesaurus of Geographic Names ®**
  TGN = names for administrative, physical places, relationships, historical information, coordinates, other data
  - (e.g., Diospolis, Acalán, Ottoman Empire, Ganges River)

- **Union List of Artist Names ®**
  ULAN = names for people, corporate bodies, biography, relationships, other data
  - (e.g., Christopher Wren, Altobelli & Molins, Anp’yŏng Taegun)

- **[Cultural Objects Name Authority ®]**
  CONA = not only titles/names of art and architecture
  - (e.g., Mona Lisa, Livre de la Chasse, Chayasomesvara Temple)

- **In development**: CONA links rich metadata for works to allow a conduit for research and discovery in the broader, ever expanding arena of digital art history

- **[Getty Iconography Authority]**
  - (e.g., Adoration of the Magi, Zeus, French Revolution, Der Ring des Nibelungen, Reclining Buddha)

- **In development**: Now a module of CONA, includes names for iconographic narratives, religious or fictional characters, historical events, names of literary works and performing arts

www.getty.edu/research/tools/vocabularies/index.html
Introduction to ULAN

NAMES / TERMS
multiple names, one is flagged preferred; dates for names

Language

Contributors

Sources

ASSOCIATIVE RELATIONSHIPS
links between subjects, dates

SUBJECT
MAIN TABLE
basic record information, unique ID, parent key, record type, descriptive/scope note, flags

• Equivalence relationships between terms/names that are linked to the same concept ID

• Hierarchical relationships between different concept IDs; each record is linked to its immediate parent

• Associative relationships between different concept IDs; are reciprocal

All Getty Vocabularies Have Same Core Structure

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Introduction to ULAN

All Getty Vocabularies Have Same Core Structure

**SUBJECT**

- **MAIN TABLE**
  - basic record information, unique ID, parent key, record type, descriptive/scope note, flags

**NAMES / TERMS**

- multiple names, one is flagged preferred; dates for names

**Coordinates**

**Contributors**

**Biography**

- display bio, birth/death dates, places

**Events**

- event, dates

**Nationality**

**ASSOCIATIVE RELATIONSHIPS**

- links between subjects, dates

**Revision History**

- editor name, action, date of action

**PLACE TYPES/ROLES**

- multiple place types or roles, one is flagged preferred, dates

**Languages**

**Sources**

**ASSOCIATIVE RELATIONSHIPS**

- links between subjects, dates

**TGN, ULAN, and CONA have additional tables**

Patricia Harpring © 2016 J. Paul Getty Trust. For educational purposes. Do not reproduce.
**NAMES / TERMS**  
multiple names, one is flagged preferred; dates for names

**Language**

**Contributors**

**Sources**

**ASSOCIATIVE RELATIONSHIPS**  
links between subjects, dates

**SOURCE**

**MAIN TABLE**  
basic record information, unique ID, parent_key, record type, descriptive/scope note, flags

**Biography**

**Coordinates**

**Events**

**Nationality**

**Relationship Types**

**CONA is first to actually link to the other vocabularies for some fields, rather than maintaining refreshable lists**

**•Controlled values identified by IDs, other shorter controlled lists in the DB simply list terminology (e.g., “preferred,” “non-preferred”)**

**Source controlled**

**Relationship Types controlled**

**Language controlled**

**Contributor controlled**

**Nationality controlled**

**Location controlled**

**Events controlled**

**Place Type / Role controlled**

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See Introduction to Controlled Vocabularies and Editorial Guidelines for full discussion

Patricia Harpring
Series edited by Murtha Baca

This primer on the characteristics, scope, uses, and methods for building and maintaining controlled vocabularies for art and cultural materials explains how vocabularies should be integrated in cataloging systems; utilized for indexing and retrieval; and structured to group synonyms and arrange concepts into categories.
What Is ULAN?

Data and fields
ULAN, the Union List of Artist Names®

Names, biographies, links, 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, Xueshi Bai, 白雪石, Santa Eufémia Master, National Palace Museum (Taipei)

Current totals: Thousands of records are added and edited every year. As of 26 May 2016, the ULAN contains 234,825 published 'records,' 248,990 including candidates (unpublished). The total number of names is 647,577.

- ULAN includes records for individuals who are artists, including anonymous masters known by hand and implied biography; it includes corporate bodies, who are groups of people working together, such as studios and museums
- ULAN includes non-artists, such as sitters and patrons; it includes unidentified but named people who are named in archival documentation, but whose identity is not established
- ULAN includes appellations for people whose identity and hand is unknown, but who are referred to by culture, e.g., unknown Aztec
ULAN, the Union List of Artist Names®

Names, biography, links 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, Xueshi Bai, 白雪石, Santa Eufemia Master, National Palace Museum (Taipei))

Current totals: Thousands of records are added and edited every year. As of 26 May 2016, the ULAN contains 234,825 published 'records,' 248,990 including candidates (unpublished). The total number of names is 647,577.

- 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)
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)
- Iichi (en, ja-trans)
- Manji (en, ja-trans)
- Tokitarō (en, ja-trans)
- 時太郎 (ja)
- 葛飾北濟 (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)
  
**Associative Relationships:**
- teacher of Taito, Katsushika, II
- child of Nakajima Ise
- possibly identified with ... Toshūsai Sharaku

**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)

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## 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)
- Dürrer, Alberto (it)
- Durerus, Albertus (la)
- Direr, Albreht
- Djurer, Albrecht
- Dürer, Albrecht
- Dīrers, Albrehts
- Alberto Duro Tedesco
- デューラー, アルブレヒト (ja)
- 阿尔布雷希特·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 place)
- Died: Nuremberg (Bavaria, Germany) (inhab place)

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

### Associated Relationships:
- apprentice of Wolgemut, Michael; 1486 to 1489
- ............. (German painter, printmaker, 1434/1437-1519)
- child of Dürrer, Albrecht, the elder
- ............. (German goldsmith, 1427-1502)
- founder of ...Albrecht Dürrer 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 Dürrer and his Legacy (2002); Bénézit, Dictionnaire des Peintres (1976; Bartsch, Le peintre graveur.

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Thesaural relationships

- ULAN has the basic structure of a thesaurus
  - Equivalence Relationships, Hierarchical Relationships, Associative Relationships
  - Hierarchical relationships important for corporate bodies, divisions of corporate bodies and museums
  - Associative relationships are important in ULAN for people and corporate bodies

- ULAN is mapped to CIDOC CRM and other authorities

Japanese printmaker and painter, 1760-1849

Hokusai, Katsushika
Katsushika Hokusai
Hokusai
葛飾 北斎
Shunrō
Sōri
Kakō
equivalence

Tatsumasa
Gakyōjin
Taito
Ichi
Manji
Tokitarō
teacher of

Tōshūsai Sharaku (Japanese printmaker, active 1794-1795)

Taito, Katsushika, II (Japanese printmaker, active ca. 1820-1850)
SCOPE OF ULAN

• ULAN is a structured vocabulary containing names and other information about artists, patrons, firms, museums, and others related to the production and collection of art and architecture.

• Names in ULAN may include given names, pseudonyms, variant spellings, names in multiple languages, and names that have changed over time (e.g., married names).

• Although it is displayed as a list, ULAN is structured as a thesaurus, compliant with ISO and NISO standards for thesaurus construction; it contains hierarchical, equivalence, and associative relationships.

• The focus of each ULAN record is a person or corporate body. Linked to each artist record are names, related artists, sources for the data, and notes. The temporal coverage of the ULAN ranges from Antiquity to the present and the scope is global.
SCOPE OF ULAN

- Scope is from Antiquity to the present
- Identified individuals or groups of individuals working together (corporate bodies)
- Involved in the conception or production of visual arts and architecture
- May include artists, architects, craftsmen, as well as people and corporate bodies closely related to artists, including originators, rulers, prominent patrons, originators, museums and other repositories of art
Introduction to ULAN

SCOPE OF ULAN

- Artist: Person/group involved in the design or production of the visual arts that are of the type collected by art museums
- Although the objects themselves may actually be held by an ethnographic, anthropological, or other museum, or owned by a private collector
- Performance artists are included (but not persons involved in the performing arts)

What is an artist?

- Architect: Person/group involved in the design or creation of architecture, which includes structures that are made by human beings, are large enough for human beings to enter, are of practical use, are relatively stable and permanent, considered to have aesthetic value
SCOPE OF ULAN

- In addition to individual artists and architects
- Patrons (e.g., Emperor Hadrian or Lorenzo de’Medici), sitters, others involved in design, creation, and maintenance of art and architecture
- Anonymous artists (e.g., Elne Master), unknown creators expressed as cultural group (e.g., unknown Aztec)
- Corporate Bodies may be included
  - Group of people working together as an entity (not necessarily legally incorporated)
  - E.g., architectural firms, photographic studios, families, and other groups of artists working together
- Museums and other repositories of art works (not building names)
  - (building names go in CONA)
### SCOPE OF ULAN

**ULAN Facets**

**Persons, Artists**
- The main and original focus of ULAN, individuals who create or design art and architecture; includes anonymous hands

**Corporate Bodies**
- Groups of people working together, not necessarily legally incorporated, studios, workshops, families, museums

**Non-Artists**
- Individuals whose primary life roles are not artist; for amateur artist, may have non-preferred broader context as *Persons, Artists*

**Unknown People by Culture**
- Creators or others whose identity is unknown, hand is unidentified, known by culture, e.g., *unknown Aztec*

**Unidentified Named People**
- People or corporate bodies known by name, usually from original sources such as archival documents and inventories, but whose identity and biography is not established
**USERS OF ULAN**

- This chart is for Web online searching only
- A typical month in 2014
- Other access via licensed files and their implementations
- LOD downloading and usage

GLOBAL ULAN USE - July 2014

<table>
<thead>
<tr>
<th>Sessions</th>
<th>Users</th>
<th>Pageviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>13,132</td>
<td>4,661</td>
<td>68,795</td>
</tr>
</tbody>
</table>

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Data Elements in ULAN

Overview of fields
Required Fields for ULAN

- preferred name
- variant names, as stated in Rules
- source(s) for the names
- role(s) (e.g., artist, watercolorist)
- display biography
  - nationality/culture
  - birth and death dates
- hierarchical position
**List of Major Fields for ULAN in VCS editorial system**

**3.1 HIERARCHICAL RELATIONSHIPS**
- 3.1.1 Parents (required)
- 3.1.2 Sort Order
- 3.1.3 Historical Flag: Current or Historical parents
- 3.1.4 Dates for relationship to parents
- 3.1.5 Parent String

**3.2 IDENTIFYING NUMBERS, STATUS FLAGS, AND SUBJECT SOURCES**
- 3.2.1 Subject ID (required-default)
- 3.2.2 Parent Key (required)
- 3.2.3 Merged Status (required-default)
- 3.2.4 Published Status (required-default)
- 3.2.5 Review Status (required-default)
- 3.2.6 Record Type (required-default)
- 3.2.7 Candidate Status (required-default)
- 3.2.8 Label (required-default)
- 3.2.9 Contributors for the Subject Record (required)
- 3.2.10 Sources for the Subject Record (required)

**3.3 NAMES**
- 3.3.1 Term ID (required default)
- 3.3.2 Name (required)
- 3.3.3 Preferred Flag (required-default)
- 3.3.4 Qualifier
- 3.3.5 Sequence Number (required-default)
- 3.3.6 Historical Flag (required-default)
- 3.3.7 Term Type (required-default)
- 3.3.8 Vernacular Flag (required-default)
- 3.3.9 Language for Names
- 3.3.10 Preferred Flag for Language
- 3.3.11 Contributor for Name (required-default)
- 3.3.12 Preferred Flag for Contributor (required-default)
- 3.3.13 Sources for Names (required)
- 3.3.14 Page Number for Name Source (required)
- 3.3.15 Preferred Flag for Source (required-default)
- 3.3.16 Dates for Names
- 3.3.17 Display Name Flag (required-default)
- 3.3.18 AACR Flag (LC heading)
- 3.3.19 Other Flags
- 3.3.20 Assigned To

- Data Dictionary for release formats are available from links on this page
- http://www.getty.edu/research/tools/vocabularies/obtain/download.html
List of Major Fields for ULAN in VCS editorial system

3.4 DESCRIPTIVE NOTE
  3.4.1 Descriptive Note
  3.4.2 Sources for the Descriptive Note
  3.4.3 Contributor for the Descriptive Note

3.5 ASSOCIATIVE RELATIONSHIPS
  3.5.1 Related People and Corporate Bodies
  3.5.2 Relationship Type
  3.5.3 Historical Flag
  3.5.4 Dates for Related People and Corporate Bodies

3.6 BIOGRAPHICAL INFORMATION
  3.6.1 Display Biography
  3.6.2 Nationality (required)
  3.6.3 Preferred Flag for Nationality (required-default)
  3.6.4 Sequence Number for Nationality (required-default)
  3.6.5 Role (required)
  3.6.6 Preferred Flag (required-default)
  3.6.7 Sequence Number (required-default)
  3.6.8 Historical Flag (required-default)
  3.6.9 Dates for Roles
  3.6.10 Birth and Death Dates (required)
  3.6.11 Birth and Death Places
  3.6.12 Sex (required)
  3.6.13 Preferred Flag for Biography (required-default)
  3.6.14 Contributor for Biography (required)
List of Major Fields for ULAN in VCS editorial system

3.7 EVENTS
   3.7.1 Event Type
   3.7.2 Preferred Flag for Event
   3.7.3 Sequence Number
   3.7.4 Event Place
   3.7.5 Dates for Events

3.8 ADMINISTRATIVE FLAGS, NOTES, AND REVISION HISTORY
   3.8.1 Comment Flag
   3.8.2 Problem flag
   3.8.3 Assigned To
   3.8.4 Special Project
   3.8.5 Facet Code
   3.8.6 Legacy ID
   3.8.7 Class Notation
   3.8.8 Image
   3.8.9 Index Note
   3.8.10 Not Found Note
   3.8.11 Status Note
   3.8.12 Editor Note
   3.8.13 Revision Note
Record Type

- Type designation that characterizes the ULAN record (Person, Corporate Body, etc.)
- Record types include the following:

**Person:** An individual, whether or not identified by name (e.g., includes both named people and anonymous masters)

**Corporate Body:** A group of people working together, whether or not incorporated (e.g., museums, studios, workshops, firms)

**Cultural Group:** Designations for which individuals are not known, but the creator or other actor is known by cultural affiliation (e.g., unknown Hopi)

**Guide Term:** A sub-facet, directly under the facet level.

**Facet:** Refers to the top of a facet, which is one of the major divisions of the ULAN.
Subject ID

- Unique numeric identification for the ULAN record
- Each concept in the ULAN database is uniquely identified by a numeric ID that serves to link the terms and all other pertinent information to the concept record

- ID is unique and generally persistent (permanent)
- Occasionally an ID may change due to record being unmerged or non-synonymous UFs removed (they then become Descriptors in a new record)
- Then new IDs are included in the licensed files, and a mapping between defunct and new IDs is provided to licensees

Term ID: Terms and other information also have unique, persistent IDs
Unique, persistent numeric ids

Subject ID: 500115493

Record Type: person

Label: Dürer, Albrecht (German printmaker and painter, 1471-1528)

Scope Note: The son of a Nuremberg goldsmith of the same name, Albrecht Dürer was a prolific, popular, and widely influential artist. [...]

Terms/Names:

Dürer, Albrecht (preferred, V, Index, LC, German-P, NA, U) Term ID: 1500065078
Albrecht Dürer (V, display, German, NA, U) Term ID: 1500065071
Törer, Albrecht (H, V, BH) Term ID: 1500816255...early name, father changed family name from Ajtosi to Törer
Dürero, Alberto (V) Term ID: 1500816094
Durerus, Albertus (V) Term ID: 1500816096
Djurer, Albrecht (V) Term ID: 1500816099
Albeto Duro Tedesco (V) Term ID: 1 1500065068
デューラー, アルブレヒト (V, Japanese, NA, U) Term ID: 1500816101
阿尔布雷希特·丢勒 (V, Chinese, NA, U) Term ID: 1500816074

Birth Place: Nuremberg (Bavaria, Germany) [TGN 7004334]

Hierarchical Position:

Persons, Artists Subject ID 500000002
... Dürer, Albrecht Subject ID 500115493

Related concepts:

Code 1105 apprentice of .... Wolgemut, Michael Subject ID 500031446
Code 1106 apprentice was .... Traut, Wolf Subject ID 500002241
Code 1511 child of .... Dürer, Albrecht, the elder Subject ID 500102378
Code 1511 founder of .... Albrecht Dürer Workshop Subject ID 500356337
Code 1202 patron was .... Maximilian I, Holy Roman Emperor Subject ID 500260809

Roles:

artist (preferred, C) [AAT 300025103]
engraver (printmaker) (C) [AAT 300025165]
woodcutter (printmaker) (C) [AAT 300025178]
mathematician (C) [AAT 300025786]
portraitist (C) [AAT 300237351]
religious artist (C) [AAT 300386220]
What is a name in ULAN

- Names, appellations, and designations used to identify the person or corporate body
  - Full name, historical names, official name, names in various languages
  - May include honorifics or titles
- Must be equivalents: Refer to the same person or corporate body
  - If an anonymous hand is “probably” the same as a named artist, these are two separate records and linked through Associative Relationships
**Examples of Names**

- Kalf, Willem
  - Willem Kalf
- Pei, I. M.
- Burgkmair, Hans, the elder
- Bartolo di Fredi
- Gentile da Fabriano
- Masaccio
- Le Corbusier
- Katshushika Hokusai
- 葛飾北斎
- Kicking Bear
- Monogrammist ELA
- Borden Limner
- Brueghel family
- Adler and Sullivan
- Savonnerie Manufactory
- National Gallery of Art

- inversions
- natural order
- initials
- transliterations
- elder, younger, titles
- patronymics and place names
- nicknames and pseudonyms
- transliterations and translations
- anonymous artists, hand is identified
- corporate bodies
**Preferred Names**

- In each record, one name must be flagged “preferred”
- “Preferred” name is the name most commonly used in the literature
- Chosen from authoritative scholarly sources and general reference works
- Generally vernacular; but English (when there is an English equivalent, e.g., corporate bodies)
- Transliterated into Roman alphabet where necessary
- Please include variant names as well
**Preferred Names**

Possible preferences indicated for each name

- Record-preferred
- Language-preferred
- Contributor-preferred
- Source-preferred
- Display or Index
- Current or Historical
- Official name, Birth name, etc. – “Other flag”
**Equivalence Relationships**

- Equivalence = multiple names for same person/corp. body
- one name is required - inverted & natural order
- many records have multiple names

Kahlo, Frida
Frida Kahlo
Kahlo de Rivera, Frida
Rivera, Frida
Kahlo y Calderon, Magdalena
Carmen Frida
Names in ULAN

Wren, Christopher *(preferred, index, LC)*
Christopher Wren *(display)*
Wren, Sir Christopher

- All names **must** refer to the same person or corporate body
- Generally only 2 to 4, not more than 15 names (obscure inventory or sales cat. names not mandatory or desirable, but published names and artist’s signature are desired)
Pseudonyms, parenthetical names

Le Corbusier *(preferred, display, LC)*
Jeanneret, Charles Édouard
Charles Édouard Jeanneret
Corbusier
Corbu
Jeanneret, Charles Edouard
Jeanneret-Gris, Charles-Edouard

- Preferred name may be a pseudonym or nickname
- Do not include parenthetical names in one field
- Include other names as variant names in separate fields
INITIALS

Pei, I. M. (preferred, index, LC)
I. M. Pei (display)
Pei, Ieoh Ming
Bèi Yù Míng

- Use the initials or abbreviations in preferred name only when established by common usage warrant
- Periods, put a space between initials, with the exception of corporate initials established by warrant, such as SOM
- Include fuller name as variant name
Elder, younger, etc.

Brueghel, Jan, the elder *(preferred, index)*

Jan Brueghel the Elder *(display)*

Bruegel, Jan *(LC)*

Brueghel, Jan, le jeune

- **Preferred name:** For members of same family that have same name, distinguish between the people by including the younger, the elder, Jr., or Sr., applied strictly according to the Rules.

- **Preferred name:** “I”, “II” are generally for members of a family with the same name, but not parent-child.

- Other languages included as variant names (e.g., *le jeune*)

Jan Brueghel the Elder; Entry of Animals into Noah's Ark, Flemish, 1613; Oil on panel; 21 1/2 x 33 in.; J. Paul Getty Museum, Los Angeles, 82.PB.82
ARTICLES, PREPOSITIONS

**NAMES:**

Gogh, Vincent van *(preferred, index, LC)*

Vincent van Gogh *(display)*

Gogh, Vincent Willem van

van Gogh, Vincent

- Preferred name: "last name" part of inverted name (left of comma) should not include article or preposition
- But depends upon common usage in standard authoritative sources
- All names: Generally do not capitalize articles and prepositions (e.g., *la, del, von, van der*) unless occasionally when they are the first word in the "last name" and warranted

Vincent van Gogh, *Irises*, 1889, oil on canvas, 71 x 93 cm. J. Paul Getty Museum (Los Angeles, California), 90.PA.20
**PATRONYMS AND PLACE NAME**

Bartolo di Fredi *(preferred, display)*  
Bartolo di Fredi Cini  
Bartolo, di Fredi *(LC)*  
Bartolo di Fredi Battilore  
Bartolo di Maestro Fredi  
Bartalus magistri Fredi  
Bartolo Senese

- **Preferred name**: Use natural order form of the name for early Western, non-Western, pseudonyms, other cases where there is no inverted form or the inverted name is not the form most often used in your sources.

- No “first” or “last” name, patronymic and place name.

- Flag this as the Display Name.


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## Non-Western

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dai Xi</td>
<td>(preferred, display)</td>
</tr>
<tr>
<td>Dai, Xi</td>
<td>(LC)</td>
</tr>
<tr>
<td>Dài Xī</td>
<td>(Chinese, transliterated Pinyin)</td>
</tr>
<tr>
<td>Tai Hsi</td>
<td>(Chinese, transliterated Wade-Giles)</td>
</tr>
<tr>
<td>Chunshi</td>
<td>(sobriquet)</td>
</tr>
<tr>
<td>Yu'an</td>
<td>(sobriquet)</td>
</tr>
<tr>
<td>戴熙</td>
<td>(Chinese)</td>
</tr>
</tbody>
</table>

- Inverted or natural order, depending upon common usage in English sources
- Informed by rules of the language if you are an expert
- ULAN preferred not necessarily LC name

---


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LANGUAGES

Giambologna (preferred, display, Italian-P)

Bologna, Giovanni (Italian)

Giovanni Bologna (Italian)

Giovanni da Bologna (Italian)

Bologne, Jean de (French)

Jean de Bologne (French)

Boulogne, Jean (French)

• names in various languages, flagged when applicable

portrait: "Portrait of Giovanni Bologna" by Hendrick Goltzius; Image from Bridgeman Art Gallery

sculpture: Female Figure, marble, 1571–1573; 45 1/4 in.; J. Paul Getty Museum, 2.3A.47; image http://www.getty.edu

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Various transliterations, diacritics

- Variant transliterations provide access
- Unicode
- Soon allow others, Russian Cyrillic, Chinese, etc.

Shishkin, Ivan (preferred, index, LC)
Ivan Shishkin (display)
Šiškin, Ivan Ivanovič
Chichkin, Ivan Ivanovitch
Schischkin, Iwan Iwanowitsch
Иван Иванович Шишкин

Ivan Shishkin; Sun-Lit Pines; 1886; oil on canvas; 102 x 70.2 cm; Tretyakov Gallery (Moscow, Russia)
**Translations**

- Common translations are important variants
- “coined” terms or names are not allowed
- Translation must be found in published source

**Kicking Bear** *(preferred, English-P)*

**Mato Wanartaka** *(Native American language)*
Married Name
Common misspelling

O'Keeffe, Georgia
Georgia O'Keeffe
O'Keefe, Georgia
Stieglitz, Alfred, Mrs.

- Published misspellings provide access
FORMER NAMES, “INCORRECT” NAMES

- Names for 14th-century *Sienese painter*
- Include spelling variations, former names (e.g., appellations used when the artist was anonymous)

Bulgarini, Bartolomeo
Bartolomeo Bolgarini
Bartolomeo Bolghini
Bartolomeo Bulgarini
Bartolommeo Bulgarini da Siena
Maestro d'Ovile
Master of the Ovile Madonna
Ovile Master
Lorenzetti, Ugolino
Ugolino Lorenzetti
FORMER NAMES, “INCORRECT” NAMES

- Names for 14th-century Sienese painter
- Include spelling variations, former names (e.g., apppellations used when the artist was anonymous)

But do NOT include in same record unless it is generally agreed in scholarly sources that they are the same person. If uncertain, link as Related People.
**Related People/Corporate Bodies**

**Jorge Afonso** (Portuguese painter and court artist, born ca. 1470-1475, died before 1540)

**Master of 1515** (Portuguese painter, active 1515)

**Relationship Type:** possibly identified with

**Related Person:**
Master of 1515
...(Portuguese painter, active 1515)

- Use for artists who are perhaps the same person
- If scholars are not sure, do not put the names in the same record; use associative rels.
<table>
<thead>
<tr>
<th><strong>Anonymous Artist</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID:</strong> S00055339</td>
</tr>
<tr>
<td><strong>Spitz Master</strong> (preferred, display)</td>
</tr>
<tr>
<td>Master of the Spitz Hours (1425)</td>
</tr>
<tr>
<td>Nationalities: French (preferred)</td>
</tr>
<tr>
<td>Roles: artist (preferred) painter illuminator</td>
</tr>
<tr>
<td>Gender: male illuminator</td>
</tr>
<tr>
<td>Events: active: ca. 1415-1425</td>
</tr>
</tbody>
</table>
| List/Hierarchical Position: ...
  - Person
  - ....... Spitz Master |
| Biographies: (French illuminator, active ca. 1415-1425) ..... [GRLPSC] |
| Sources and Contributors: Master of the Spitz Hours
  - ........................................
  - Spitz Master ....... [VP Preferred] Paul Getty Museum, collections online |

- "Anonymous" artist = appellations are devised by scholars or museums
- when the hand (style), and oeuvre (works) are identified, approximate dates known, but the name of the artist is not known

- For constructed names (i.e., for anonymous creators), preferred name = English for descriptive words in the name (e.g., Master, Monogrammist)

**Saint Christopher Carrying the Christ Child: Spitz Master; French, Paris, about 1420; Tempera colors and gold leaf on parchment; 7 1/16 x 5 7/8 in.; J. Paul Getty Museum (Los Angeles, California), Ms. 23, fol. 47v**
**Unknown Artist**

- **Names:**
  - unknown Inca
  - unknown Inka
  - anonymous Inca
  - anonymous Inka
  - Incaic

- **Display Biography:** Inca artist
- **Nationality/Culture:** Inca
- **Hierarchical Position:**
  Top of the ULAN List/Hierarchy
  ... Person (Facet)
  ..... <Unknown Artists>
  ....... Inca

- “Unknown” = culture of object or creator; facet in ULAN

- Used in the creator field when the person is not named and an anonymous personality (with established oeuvre) has not been identified; culture of the work is used

Other information may be attached to names

Name: Le Corbusier
Term ID: 1500074565

Display Date: pseudonym adopted in 1920
Start Date: 1920 End Date: 9999

• Dates when the name was or is still used

Contributors: AVERY Preferred, BHA Preferred, CCA Preferred, CENSUS Preferred, FDA Preferred, GRLPSC, VP Preferred

Sources:
Bénézit, Dictionnaire des Peintres (1976)
CCA Authority File (1980-)
RILA/BHA (1975-2000)

• Sources and contributors for the name
## Corporate body names

### A closer look

<table>
<thead>
<tr>
<th>Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studio West Architects</td>
<td>names generally not inverted</td>
</tr>
<tr>
<td>Barrott, Marshall and Montgomery</td>
<td>generally in English (see Rules for guidance)</td>
</tr>
<tr>
<td>Aegisthus Group</td>
<td>not necessarily legally incorporated</td>
</tr>
<tr>
<td>Gobelins Manufactory</td>
<td>appellations may be constructed by editors in certain defined cases</td>
</tr>
<tr>
<td>J. Paul Getty Museum</td>
<td>if a constructed “name,” descriptive term is in lower case</td>
</tr>
<tr>
<td>della Robbia family</td>
<td></td>
</tr>
</tbody>
</table>
• Corporate Body = any group of two or more people working together
• Not necessarily legally incorporated

- architectural, photographic, etc. firms
- ateliers and studios
- manufactories
- repositories, museums
- families
- administrative originators of groups
Corporate body names

- Skidmore, Owings & Merrill *(preferred, display, LC)*
- Skidmore, Owings and Merrill
- SOM *(abbreviation)*
- Skidmore, Owings & Merrill, LLP

- As with individual person record
- Corporate body record has at least one name
- Others included to provide access
- Prefer the name most often used in standard and scholarly sources
Corporate body names

U. S. Forest Service (*preferred*)
United States Forest Service
National Forest Service (*historical*)
United States National Forest Service (*historical*)

- Consult official publications and Web sites for names and information about extant corporate bodies
- Includes corporate bodies needed to record administrative origin of archival groups
Languages

Ethnological Museum *(preferred, English-P)*
Ethnologisches Museum *(German-P)*
Ethnographische Sammlung *(historical, German)*
Ethnographic Collection *(historical, English)*
.... name used from 1829
Cabinet of Art and Rarities *(historical, English)*
Kunst- und Raritätenkabinett *(historical, German)*

- Language often more pertinent with corporate bodies than people
- since corporate body names are often translated in published sources (while people's names rarely are)
1. **Abdullah Frères**  
   (Turkish photography and painting studio, 1858-1899) [50003328]
2. **Adam family**  
   (British architects, active 17th-18th centuries) [500075129]
3. **Adam family**  
   (German painters, active 18th-20th centuries) [500090706]
4. **Adrada family**  
   (Spanish ceramicists, active 16th-17th centuries) [500081344]
5. **Albanese family**  
   (Italian sculptors and architects, active 16th-17th centuries) [50011777]
6. **Alberti family**  
   (Italian artists, active 16th-17th centuries) [500110643]
7. **Albertoli family**  
   (Swiss artists and teachers, active 18th-19th centuries) [500120292]
8. **Alken family**  
   (English artists, active 18th-19th centuries) [500121841]
9. **Allio family**  
   (Italian family of artists, active 16th-18th centuries) [500121838]

- Families included with corporate bodies
- Same characteristics as other corporate bodies
Corporate body names

Abdullah Frères *(preferred, display)*

Abdullah Biraderler

Abdullah Bros.

Abdullah Brothers

- Often hard to distinguish family from an atelier, thus problems would develop re. where to place the corporate body.

<table>
<thead>
<tr>
<th>#</th>
<th>P</th>
<th>H</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P</td>
<td>NA</td>
<td>studio</td>
</tr>
<tr>
<td>2</td>
<td>N</td>
<td>NA</td>
<td>photography studio</td>
</tr>
<tr>
<td>3</td>
<td>N</td>
<td>NA</td>
<td>artists</td>
</tr>
<tr>
<td>4</td>
<td>N</td>
<td>NA</td>
<td>painters</td>
</tr>
<tr>
<td>5</td>
<td>N</td>
<td>NA</td>
<td>photographers</td>
</tr>
<tr>
<td>6</td>
<td>N</td>
<td>NA</td>
<td>family</td>
</tr>
</tbody>
</table>

- Types of corporate bodies can be extracted by using "role" field as a query variable.
Corporate Body Names

ID: 500109196

Brueghel family (Flemish painters, active 16th-17th centuries)

Names:
- Brueghel family (preferred, display)
- Bruegel family (v)

Nationalities:
- Flemish (preferred)

Roles:
- artists (preferred)
- painters
- family

Gender: not applicable

Events:

Related People or Corporate Bodies:
- member was .... Bruegel, Pieter, I (Flemish painter, ca. 1525-1569) [500013247]
- member was .... Brueghel, Abraham (Flemish painter, ca. 1631-1690) [500001301]
- member was .... Brueghel, Jan Baptist (Flemish painter, 1647-1719) [500110935]
- member was .... Brueghel, Jan Peeter (Flemish painter, ca. 1628-ca. 1682) [500029934]
- member was .... Brueghel, Jan, the elder

- Often hard to distinguish family from an atelier, thus problems would develop re. where to place the corporate body

- Members of the family are linked to the record for the family through associative relationships
for Pieter Bruegel, I

<table>
<thead>
<tr>
<th>Related People or Corporate Bodies:</th>
</tr>
</thead>
<tbody>
<tr>
<td>child by marriage (in-law) of .... Coecke van Aelst, Pieter, the elder</td>
</tr>
<tr>
<td>(Flemish artist, architect, and author)</td>
</tr>
<tr>
<td>child by marriage (in-law) of .... Verhulst, Mayken</td>
</tr>
<tr>
<td>(Flemish painter, ca. 1520-1600)</td>
</tr>
<tr>
<td>collaborated with .... Balten, Pieter</td>
</tr>
<tr>
<td>(South Netherlandish painter, engraver, and draftsman, 1584) [500015430]</td>
</tr>
<tr>
<td>colleague of .... Clovio, Giulio</td>
</tr>
<tr>
<td>(Croatian illuminator, 1498-1578, active in Italy)</td>
</tr>
<tr>
<td>colleague of .... Cock, Hieronymus</td>
</tr>
<tr>
<td>(Netherlandish artist, ca. 1510-1570) [50000569]</td>
</tr>
<tr>
<td>grandparent of .... Brueghel, Ambrosius</td>
</tr>
<tr>
<td>(Flemish painter, 1617-1675) [500007956]</td>
</tr>
<tr>
<td>grandparent of .... Brueghel, Jan, the younger</td>
</tr>
<tr>
<td>(Flemish painter and draftsman, 1601-1678) [500013747]</td>
</tr>
<tr>
<td>grandparent of .... Brueghel, Pieter, III</td>
</tr>
<tr>
<td>(Flemish painter, born 1589, died after 1608) [500000792]</td>
</tr>
<tr>
<td>member of .... Brueghel family</td>
</tr>
<tr>
<td>(Flemish painters, active 16th-17th centuries) [500109196]</td>
</tr>
<tr>
<td>parent of .... Brueghel, Jan, the elder</td>
</tr>
<tr>
<td>(Flemish painter and draftsman, 1568-1625) [500007095]</td>
</tr>
<tr>
<td>parent of .... Brueghel, Pieter, II</td>
</tr>
<tr>
<td>(Flemish painter, 1564/1565-1637/1638) [500023420]</td>
</tr>
<tr>
<td>related to (familial) .... Verhulst, Merten</td>
</tr>
<tr>
<td>(Flemish painter, active 16th century) [500082721]</td>
</tr>
</tbody>
</table>

- Do not build family trees, only link artists that are related
- Link through associative relationships, not hierarchical relationships
- Familial relationships along with professional
NAME CHANGES

Bode Museum *(record-preferred, English-P)*
Bode-Museum *(German-P)*
Kaiser Friedrich Museum *(historical, German)*
Königlichen Museum *(historical, German)*
Royal Museum *(historical, English)*

- Names may change for corporate bodies over time
- Historical names are flagged
NAME CHANGES

Morris & Co. \textit{(preferred)} …. name of the firm after 1875
Morris and Company
Morris, Marshall, Faulkner & Co. \textit{(historical)}.. original name, 1861-1875
Morris, Marshall, Faulkner and Company \textit{(historical)}

- Dates may be included for names
- For corporate bodies, must carefully consult the editorial rules re. name changes
- Is the added name a Variant Name?
- Or should you make a second record; link the two corporate bodies as Related People/Corporate Bodies?
**NAME CHANGES**

Morris & Co. (*preferred*) .... name of the firm after 1875  
Morris and Company  
Morris, Marshall, Faulkner & Co. (*historical*).. original name, 1861-1875  
Morris, Marshall, Faulkner and Company (*historical*)

- **For one record:** Generally include the former names as historical names in one record rather than making two records  
  1) if the corporate body is a historical studio or institution or 2) if the primary partners have remained the same for a modern firm.

- **For separate records:** Generally make two separate records  
  1) if the function or location of the historical corporate body changed with the name change, or 2) for a modern firm and legal incorporation, the primary partners have changed, and the firm apparently prefers to clearly distinguish its separate incarnations. Link the related corporate bodies.

---

Fruit (or pomegranate) wallpaper; designed 1866; printed from woodblocks; Daisy Tiles; tin-glazed terracotta; Both designed by William Morris for Morris, Marshall, Faulkner & Co.; Victoria & Albert Museum, London.

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Introduction to ULAN 69

- Associative = related people and corporate bodies, not hierarchical
- E.g., a corporate body may be related to people
- Relationships are reciprocal

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**RELATED PEOPLE/CORPORATE BODIES**

for Albrecht Dürer (German, 1471-1528)

**Relationship Type:** son of  
**Related Person:**  
*Albrecht Dürer the elder*

**Relationship Type:** student of  
**Related Person:**  
*Michael Wolgemut*

**Display Date:** from 1486 through 1490  
**Start Date:** 1486  
**End Date:** 1490

- student/teacher relationships  
- familial relationships if parent is also an artist  
- dates of relationship  
- Earliest and Latest are used for searching, do not display to end user

Albrecht Dürer; German, 1471 - 1528; Knight, Death and Devil, 1513; engraving on laid paper; sheet: 24.8 x 19 cm (9 3/4 x 7 1/2 in.); © National Gallery of Art, Washington, DC. Gift of W.G. Russell Allen, 1941.1.20

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Introduction to ULAN

- Choose the Relationship Type from controlled list
- Definitions are in the Editorial Manual and LOD documentation
- Arranged by guide terms

<table>
<thead>
<tr>
<th></th>
<th>related to</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>1001</td>
<td>miscellaneous</td>
<td>1001</td>
</tr>
<tr>
<td>1003</td>
<td>associated with</td>
<td>1003</td>
</tr>
<tr>
<td>1005</td>
<td>possibly identified with</td>
<td>1005</td>
</tr>
<tr>
<td>1007</td>
<td>distinguished from</td>
<td>1007</td>
</tr>
</tbody>
</table>

◇ **<person to person - teaching/learning>**
The following relationships may be used as appropriate and described in scholarly literature. These relate to relationships between two people.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1101</td>
<td>teacher of</td>
<td>1102</td>
</tr>
<tr>
<td>1102</td>
<td>student of</td>
<td>1101</td>
</tr>
<tr>
<td>1105</td>
<td>apprentice of</td>
<td>1105</td>
</tr>
<tr>
<td>1106</td>
<td>apprentice was</td>
<td>1105</td>
</tr>
<tr>
<td>1107</td>
<td>influenced</td>
<td>1108</td>
</tr>
<tr>
<td>1108</td>
<td>influenced by</td>
<td>1107</td>
</tr>
<tr>
<td>1111</td>
<td>master of</td>
<td>1112</td>
</tr>
<tr>
<td>1112</td>
<td>master was</td>
<td>1111</td>
</tr>
<tr>
<td>1113</td>
<td>fellow student of</td>
<td>1113</td>
</tr>
</tbody>
</table>

◇ **<person to person / person to firm - patronage>**
Generally for relationships between artists and patrons.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1201</td>
<td>patron of</td>
<td>1202</td>
</tr>
<tr>
<td>1202</td>
<td>patron was</td>
<td>1201</td>
</tr>
</tbody>
</table>
Hierarchical Relationships

BTG = Genus/Species (generic)
AAT hierarchical relationships are usually BTG (*bronz*e is a type of metal)

BTP = Part/Whole (partitive)
TGN relationships are usually part/whole (*Tuscany* is part of *Italy*)

BTI = Instance
used seldom or never in AAT and TGN, may be used in ULAN:
a child is an example of the parent, often used with proper names arrayed under a generic terms
• For the parent *Persons, Artists, Picasso* is an example of
• If in some vocabulary or implementation (such as in Gallery Systems’ implementation of TGN), for the parent *rivers, Nile* is an example of the parent
Hierarchical Relationships

<table>
<thead>
<tr>
<th>Gobelins</th>
</tr>
</thead>
<tbody>
<tr>
<td>..... Gobelins Furniture Manufactory</td>
</tr>
<tr>
<td>..... Gobelins Marquetry Studio</td>
</tr>
<tr>
<td>..... Gobelins Pietra Dura Studio</td>
</tr>
<tr>
<td>..... Gobelins Metalwork Studio</td>
</tr>
<tr>
<td>.......... Gobelins Engraving Studio</td>
</tr>
<tr>
<td>.......... Gobelins Silversmiths' Studio</td>
</tr>
<tr>
<td>..... Gobelins Painting Studio</td>
</tr>
<tr>
<td>..... Gobelins Sculpture Studio</td>
</tr>
<tr>
<td>..... Gobelins Tapestry Manufactory</td>
</tr>
<tr>
<td>.......... Gobelins Dye Works</td>
</tr>
</tbody>
</table>

- Hierarchical in ULAN = whole/part (e.g., above, for corporate bodies) and instance (e.g., for facets)
- Represented with indentation in display
### Corporate Body

- **National Museums in Berlin**
  - **Art Library**
  - **Museum of Photography**

#### Collection of Classical Antiquities
- German museum, Berlin, founded in 1898

#### Egyptian Museum
- German museum, Berlin, founded in 1828

#### Ethnological Museum
- German museum, Berlin, founded in 1873 in its current configuration

#### Friedrich Christian Flick Collection
- German art collection, Berlin, contemporary

#### Friedrichswerdersche Kirche collection
- German art collection, Berlin, dating to 19th century

#### Gemäldegalerie
- German art collection, Berlin, dating to 19th century

#### Hamburger Bahnhof - Museum für Gegenwart
- German art collection, Berlin, in current configuration since 1996

#### Museum Berggruen
- German art museum, Berlin, founded in 2000

#### Museum for Pre- and Early History
- German museum, Berlin

#### Museum of Decorative Arts
- German decorative arts collection, Berlin, founded in 1868

#### Kunstgewerbemuseum in Schloß Köpenick
- German decorative arts collection, portion of the Museum of Decorative Arts Collection, Berlin

#### Museum of East Asian Art
- German art museum, Berlin, founded in 1906

#### Museum of European Cultures
- German art museum, Berlin, founded in 1999

#### Museum of Folklore
- Former German folklore museum, Berlin, merged in 1999

---

**Dates may be associated with hierarchical relationships**

- **Start and End Dates index the Display Date**
  - **Start**: 2004
  - **End**: 9999
Hierarchical displays and query results: name plus Display Biography

Museum of Photography (German art museum, Berlin, founded in current configuration in 2004)

In the Current Location field of the Work record for a photograph

Current Location:
Museum of Photography (Berlin, Germany)

- Data may be displayed differently for different purposes
- One display may be appropriate for hierarchical display and query results lists
- When repositories are used to index location in an art Work Record, by convention and CDWA/CCO rules, name should display with parent string instead of Display Biography field
**Display biography, Indexed**

for Jacques Louis David  
**Display Biography:**  
French painter and draftsman, 1748-1825

- **NATIONALITY:** French  
- **ROLES:** artist, painter, draftsman, portraitist(s)  
- **BIRTH DATE:** 1748  
- **DEATH DATE:** 1825

- DISPLAY vs. Indexing  
- May be relatively simple to concatenate from fielded data
Display Biography, Indexed
for Sèvres Porcelain Manufactory

Display Biography:
French porcelain manufactory, active from 1756 to the present

- **NATIONALITY:** French
- **ROLES:** manufactory, porcelain makers
- **START DATE:** 1756
- **END DATE:** 9999

- Indexing also for corporate bodies
- E.g., end date for retrieval, not seen by end users
DISPLAY BIOGRAPHY, Indexed

for Payag

**DISPLAY BIOGRAPHY**: Indian painter, active ca. 1595-1655

**NATIONALITY**: Indian
Mughal

**BIRTH DATE**: 1545

**DEATH DATE**: 1675

**ROLES**:
- artist
- painter
- miniaturist
- portraitist

- Display may include expressions of approximation, uncertainty, and nuance
- “active,” ca.
- estimate birth/death dates accordingly

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Payag, Jahangir Presents Prince Khurram with a Turban Ornament, 1615

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Display Biography

- Russian painter, 1793-1836
- Canadian architect and engineer, 1898-1976
- Belgian muralist and sculptor, born 1934
- Mexican muralist, died 1917
- English illuminator, ca. 1800-1874
- Spanish sculptor, ca. 1710-ca. 1765

- No more than three roles in display
- If only birth or death date known, do not use hyphen (not “1934-“)
- Use “ca.” or “probably” as needed
INDEXING LIFE DATES

Display Biography: American painter, 1903-1970
Birth Date: 1903  Death Date: 1970

Display Biography: Greek vase painter, ca. 340-ca. 265 BCE
Birth Date: -350  Death Date: -275

Display Biography: Japanese architect, born 1963
Birth Date: 1963  Death Date: 2063

Display Biography: Nigerian sculptor, died 1978
Birth Date: 1878  Death Date: 1978

Display Biography: American art museum, established in 1937
Birth Date: 1937  Death Date: 9999

Display Biography: Canadian architect, contemporary
Birth Date: 1900  Death Date: 2090

Display Biography: Italian painter, ca. 1360-before 1413
Birth Date: 1355  Death Date: 1413

- Rules have many examples; find one that fits your situation at hand
INDEXING LIFE DATES

Display Biography: French architect, baptized 1598, died 1666
Birth Date: 1597   Death Date: 1666

Display Biography: Persian king and patron, reigned 522-486 BCE
Birth Date: -550   Death Date: -486

Display Biography: German painter, master in 1315, died 1344
Birth Date: 1270   Death Date: 1344

Display Biography: British architectural firm, founded 1768, dissolved 1833
Birth Date: 1768   Death Date: 1833

Display Biography: French miniaturist, 14th century
Birth Date: 1300   Death Date: 1399

Display Biography: Florentine architect, 1300/1310-1362
Birth Date: 1300   Death Date: 1362

- Be sure to state only what is known in Display; e.g., don’t state a birth date in display if only the date of Baptism is known.
DISPLAY BIOGRAPHY

American miniaturist, active 1860s
Native American craftsman, 18th century
French printmaker, 1645/1648-1721
Roman sculptor, 1st century BCE

- Use “active” if life dates are unknown
- May list century
- For decades, do not use apostrophe (not “1860’s”)
- Use slash for “between”
- Use BCE and CE (not BC and AD)
## Indexing the Role

<table>
<thead>
<tr>
<th>painter</th>
<th>architect</th>
<th>landscape architect</th>
</tr>
</thead>
<tbody>
<tr>
<td>sculptor</td>
<td>architectural firm</td>
<td>portraitist</td>
</tr>
<tr>
<td>printmaker</td>
<td>museum</td>
<td>marine painter</td>
</tr>
</tbody>
</table>

- Controlled list mapped to AAT (will be linked to AAT)
- Try to list specific role in Display, but general *artist* and very specific in indexing

**Display Biography:** Russian painter, 1789-1852  
**Roles:** artist *(preferred)*  
  - painter  
  - portraitist  
  - watercolorist

- In the Display Biography, if you do not know the specific role or roles, use the general “artist.”

**Display Biography:** German artist, ca.1488-after 1535  
**Role:** artist *(preferred)*
**INDEXING THE ROLE**

*For Willem Kalf*

DISPLAY BIOGRAPHY:
Dutch painter, 1619-1693

LIFE ROLES:
artist *(preferred)*
painter
still life painter
art dealer

- "artist" is typically the first (preferred) role
- General to specific
- List non-preferred in order of importance or chronologically
INDEXING THE ROLE
For Giovanni Battista Piranesi

DISPLAY BIOGRAPHY:
Italian printmaker and architect, 1720-1728

ROLES:
artist
printmaker
architect
draftsman
engineer

- may have multiple roles
- only the most important in Display, no more than three
- recommended to index all major professional roles

Giovanni Battista Piranesi; The Round Tower, published 1761; Mark J. Millard Architectural Collection, acquired with assistance from The Morris and Gwendolyn Cafritz Foundation; National Gallery of Art (Washington, DC); 1983.118.4

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**INDEXING NATIONALITY**

*For André Kertész*

**DISPLAY BIOGRAPHY:**
American photographer, 1894-1985, born in Hungary

**NATIONALITY:**
- Hungarian
- American

- The nationality, culture, or ethnic group associated with the person or corporate body (e.g., Nigerian, Celtic, Native American)
- May have multiple nationalities
- Not necessarily legal citizenship
INDEXING NATIONALITY

For Palmer C. Hayden

DISPLAY BIOGRAPHY:
American painter, 1893-1973

NATIONALITY:
American
African-American

- Index culture and ethnicity where important for retrieval
INDEXING NATIONALITY

- Controlled list mapped to AAT (will be linked to AAT)

- Adjectival name of a nation, other place name, culture, ethnic group, sexual orientation

- Refers to a prolonged association of an artist with a given place; does not necessarily indicate legal citizenship

- May refer to historical nations (e.g., Flemish)

- May refer to culture (e.g., Frankish) or ethnic groups (e.g., Native American).

<table>
<thead>
<tr>
<th>English</th>
<th>Nigerian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vietnamese</td>
<td>Japanese</td>
</tr>
<tr>
<td>Sienese</td>
<td>Italian</td>
</tr>
<tr>
<td>Celtic</td>
<td>Berber</td>
</tr>
<tr>
<td>Ancient Roman</td>
<td>Native American</td>
</tr>
</tbody>
</table>

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EVENTS, locus of activity

For Vincent van Gogh

DISPLAY BIOGRAPHY:

Dutch painter and craftsman, 1853-1890

EVENT:
active

PLACE:
Holland
France

*where places of activity and nationality differ, locus of activity is recorded*
**Other Events**

*For Henri Rousseau*

**EVENT:** exhibited  
**DISPLAY DATE:** at the Salon des Indépendants, Paris, in 1886  
**START DATE:** 1886  
**END DATE:** 1886  
**PLACE:** Paris (France)

- Must index either location or dates of the event

---

Henri Rousseau, *The Dream*, 1910. Oil on canvas, 6' 8 1/2" x 9' 9 1/2" (204.5 x 298.5 cm). Gift of Nelson A. Rockefeller. Image MOMA online.
Riza, son of 'Ali Asghar, was a leading artist under the Safavid shah Abbas I (reigned 1588-1629). He is noted primarily for having created portraits and genre scenes. The various names for this artist and the attributions of paintings in his oeuvre are somewhat uncertain, since his signatures and contemporary documentary references are ambiguous. Most scholars agree that the artist, Aqa Riza, who is named by Safavid chroniclers, is the same person as Riza in the court of Abbas (thus, "Abassi"). Others believe that the artist's style changed significantly at mid-life. Others believe that two different artists with similar names are responsible for the oeuvre generally attributed to Riza. His early paintings display a fine, almost calligraphic linear style with mainly primary colors; the palette of his later works is darker and earthier, and the lines are coarser and heavier. He was probably born in Kashan and he probably died in Esfahan.

*Freer Gallery of Art and Arthur M. Sackler Gallery, National Museum of Asian Art, Smithsonian Institution (Washington, DC, USA) F19151M.3, ca. 1605; image © Smithsonian Institution, 2005.*
## Sources

### 4.3.1.1 Preferred Sources

For rules regarding which sources should be used for a specific field, see the pertinent chapter in this manual. Prefer the most authoritative, up-to-date source available. Sources of information in the ULAN record may include the following:

- **Standard general reference sources**
  - Grove, Thieme-Becker, Bénézit
  - LC Name Authority Headings
  - text books
  - general biographical dictionaries
- **Other official sources**
  - repository publications, including catalogues and official Web sites
  - general encyclopedia and dictionaries
  - authoritative Web sites other than museum sites (e.g., university sites)
- **Other sources**
  - inscriptions on art objects, coins, or other artifacts
  - journal articles, newspaper articles
  - archives, historical documents, and other original sources
  - authority records of contributors' databases

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Recent Editorial Issues

Survey of a few issues reported at the 2014 ITWG meeting
ULAN: Facets and new content

- Last time we reported on the new and enlarged facets “Unknown People by Culture” (e.g., unknown Aztec) and “Non-Artists” (e.g., sitters and patrons)

- 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: Facets and new content

- Examples of Unidentified Names People
- On our “to do” list to globally make the “unidentified” consistent
- (now in name field, need to put it in qualifier field; if possible globally, add the source for context in the bio)

<table>
<thead>
<tr>
<th>Pref Name</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unidentified Named People (ULAN facet)</td>
<td>500355043</td>
</tr>
<tr>
<td>Aalst, van (unidentified) (Unknown artist, Sale at Dordrecht, 1 November 1802)</td>
<td>500046796</td>
</tr>
<tr>
<td>Abel (unidentified) (artist, active 1940; Witt Library, Authority files)</td>
<td>500191978</td>
</tr>
<tr>
<td>Abinetti (unidentified) (Unknown artist, sale Jan. 29, 1824, lot 209, London)</td>
<td>500051176</td>
</tr>
<tr>
<td>Abraham (unidentified) (Unknown artist, Cornu inventory, Paris (1644))</td>
<td>500048836</td>
</tr>
<tr>
<td>Adan (unidentified) (Unknown artist, Almirante de Castilla inventory, Madrid (1647))</td>
<td>500050906</td>
</tr>
<tr>
<td>Adecausen (unidentified) (Unknown painter, British Saie, 17 June 1813, Coxe)</td>
<td>500053262</td>
</tr>
<tr>
<td>Aelbert, Mr. [Unidentified] (Unknown artist)</td>
<td>500047778</td>
</tr>
<tr>
<td>Aelst [Unidentified] (Unknown artist)</td>
<td>500048618</td>
</tr>
<tr>
<td>Aevert [Unidentified] (Unknown artist)</td>
<td>500044084</td>
</tr>
<tr>
<td>A. G. (French artist, ca. 1900, active Paris)</td>
<td>500006838</td>
</tr>
</tbody>
</table>
Introduction to ULAN

ULAN: Entity in ULAN or in CONA IA?

- Is the person historically documented, or a character of legend, religion, or mythology?
- Not always clear-cut: maybe based on a presumed historical person (ULAN), but to him/her is attached extensive legend and iconography (better captured in CONA IA).
- Is Saint Luke the evangelist a real person, or a character of legend/iconography?
ULAN: Entity in ULAN or in CONA IA?

- E.g., the US Library of Congress (LOC) calls Saint Luke the evangelist an author (i.e., real person)
  - Although most scholars agree that the Gospel of Luke was written by a later anonymous author using as sources the Gospel of Mark, source Q, and some unique Lukan material
  - In the CONA IA, Luke could be linked to legends and fictional events associated with him, such as painting the portrait of the Virgin Mary
  - Solution: in rare cases, for practical reasons (given that he is an author in LOC), perhaps the entity exists in both ULAN and the CONA IA
  - But the two are linked
- Another factor is cultural sensitivity: E.g., when referring to characters from extant religions; but at the same time we cannot ignore scholarly opinion

LC control no.: n 50082065
LCCN permalink: http://lccn.loc.gov/n50082065
HEADING: Luke, Saint
  000 01893cz a2200301n 450
  001 476470

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ULAN: Entity in ULAN or a CONA work?

- Classic example is *National Gallery of Art* (Washington, DC)

- **ULAN Corporate Body:** A group of people working together, having a board of directors, date of foundation, etc.

- **CONA Built Work:** A complex having structures, architects, materials, and dates of design and execution
ULAN: Entity in ULAN or a CONA work?

- We must rely upon the contributor, since we don’t have time to do the research
- If they contribute as a repository of a work rather than the architectural context, then it goes in ULAN (e.g., temples)
- [Corporate bodies have different attributes than built works]

<table>
<thead>
<tr>
<th>Stat</th>
<th>Mark</th>
<th>Pref Name</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN</td>
<td></td>
<td>Top of the ULAN list / hierarchy</td>
<td>500000001</td>
</tr>
<tr>
<td>FN</td>
<td>+</td>
<td>Corporate Bodies (ULAN facet)</td>
<td>500000003</td>
</tr>
<tr>
<td>AC</td>
<td></td>
<td>Dargah Temple (Afghan repository, K$01abul, contemporary)</td>
<td>500300743</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stat</th>
<th>Mark</th>
<th>Descriptor (Qualifier)</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN</td>
<td></td>
<td>Top of the CONA hierarchy</td>
<td>700000000</td>
</tr>
<tr>
<td>FN</td>
<td></td>
<td>Built Work</td>
<td>700000000</td>
</tr>
<tr>
<td>RV</td>
<td>+</td>
<td>Alampur temple complex (building complex; various; various dates)</td>
<td>70000281</td>
</tr>
<tr>
<td>AC</td>
<td></td>
<td>Attagudi (Siva temple) (temple (building); patron: Ganapatideva; unknown Telengana; First q</td>
<td>70000280</td>
</tr>
<tr>
<td>RV</td>
<td></td>
<td>Bartholomew County Courthouse (courthouse; Isaac Hodgson (American architect, born 1</td>
<td>70000016</td>
</tr>
<tr>
<td>RV</td>
<td></td>
<td>Bastille (bastide; unknown architect, by order of Charles V, King of France; begun in 1370,</td>
<td>70000191</td>
</tr>
</tbody>
</table>
**ULAN: Entity in ULAN or a CONA work?**

Indexing with AAT further disambiguates

**ULAN**

**Dargah Temple**  (Afghan repository, Kabul, contemporary)

- **AAT**
  - temples (institutions) (religious institutions, institutions by activity, ... Organizations (Hierarchy Name))

  *Note: Institutions focused on the worship of a deity or deities.*

**CONA**

**Mallikarjuna temple**  (temple (building); unknown Telangana; Mid-13th century CE; Kakatiya ...; Ainavolu (Andhra Pradesh, Bharat, Asia)

- **AAT**
  - temples (buildings) (religious buildings, religious structures, ... Built Environment (Hierarchy Name))

  *Note: Buildings housing places devoted to the worship of a deity or deities. In the strictest sense, it refers to the dwelling place of a deity, and thus often houses a cult image. In modern usage a temple is generally a structure, but it was originally derived from the Latin "temple" and historically has referred to an uncovered place affording a view of the surrounding region. For Christian or Islamic religious buildings the terms "churches" or "mosques."*
Contributions to ULAN

Contributors and issues
Contributions to ULAN

• ULAN focuses on names for people and corporate bodies (groups of people) and related information used for cataloging, research, and discovery of art, architecture, archaeology, conservation, and related disciplines

• Contributors to ULAN include representatives of these disciplines, museums and special collections, the conservation community, and others
Recent Getty vocabulary contributors

• Contributors include projects at the Getty Research Institute, the Getty Conservation Institute, and the J. Paul Getty Museum

• Other recent contributors include the Centro de Documentación de Bienes Patrimoniales, Chile; Netherlands Institute for Art History (RKD); Academia Sinica of Taiwan; the Staatliche Museen zu Berlin Preussischer Kulturbesitz; the Courtauld Institute; Grove Art online; the Rijksmuseum in Amsterdam; Indiana University slide library; the Victoria and Albert Museum; Istituto Centrale per il Catalogo e la Documentazione, Rome; the Canadian Heritage Information Network (CHIN); the Canadian Centre for Architecture; the Frick Art Reference Library; the Smithsonian Institution National Museum of African Art; the National Art Library in London; the Mystic Seaport Museum; the Harry Ransom Humanities Research Center at the University of Texas at Austin; the Bunting Visual Resources Library at the University of New Mexico
Merging records: for multiple records contributed for the same person; automated if possible in the load.
Name: Del Duca, Giacomo
Biography: Italian sculptor and architect, ca. 1520-1604
ULAN ID: 500016281

Name: Jacopo Siciliano
Biography: Sicilian architect, active in Rome, ca. 1520-1601
ULAN ID: 500137834

• “Giacomo del Duca” is same person as “Jacopo Siciliano”
• Records were “merged” into a single record
Name: Del Duca, Giacomo
Biography: Italian sculptor and architect, ca. 1520-1604
ULAN ID: 500016281

Name: Jacopo Siciliano
Biography: Sicilian architect, active in Rome, ca. 1520-1601
ULAN ID: 500137834

• “Giacomo del Duca” is same person as “Jacopo Siciliano”
• Records were “merged” into a single record

Names: Del Duca, Giacomo (pref)
Jacopo Siciliano
Biography: Italian sculptor and architect, ca. 1520-1604, born in Sicily, active in Rome
ULAN ID: 500016281
Utilizing ULAN

Implementers and end users
How to disambiguate homographs in displays for end users

1. Andrea da Jesi  
   (Italian painter, 1430 or 1440-after 1492) [500046226]  
   Andrea Di Bartolo Da Jesi Il Vecchio

2. Andrea de'Bartoli  
   (Italian painter, active ca. 1355-ca. 1367) [500041805]  
   Andrea di Bartolo

3. Andrea di Bartolo  
   (Sienese painter, active by 1389, died 1428) [500024770]  
   Andrea di Bartolo Cini  
   Andrea di Bartolo di Fredi  
   Bartolo, Andrea di  
   Cini, Andrea di Bartolo

4. Ansano di Andrea di Bartolo  
   (Italian painter, flourished 1439/1380) [500199533]  
   Cini, Ansano di Andrea di Bartolo  
   Sano di Andrea di Bartolo

5. Attavante, Attavante  
   (Italian illuminator, 1452-before 1525) [500026603]  
   Attavante di Gabriello di Vante di Francesco di Bartolo  
   Attavantes di Bartolo

- Preferred name plus preferred display biography  
- Include any variant names that met criteria of the search  
- In example, on keyword “bartolo”
How are vocabularies used?

For cataloging and indexing

**CONA is linked to TGN, ULAN, and AAT**

<table>
<thead>
<tr>
<th>CONA Record</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONA ID:</strong></td>
<td>700000153</td>
</tr>
<tr>
<td><strong>Class:</strong></td>
<td>Sculpture</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Hacha (Ceremonial Ax)</td>
</tr>
<tr>
<td><strong>Creator Display:</strong></td>
<td>unknown Veracruz</td>
</tr>
<tr>
<td><strong>Creation Date:</strong></td>
<td>Late Classic Veracruz (600-900 CE)</td>
</tr>
<tr>
<td><strong>Current Location:</strong></td>
<td>Dumbarton Oaks (Washington DC, USA), ID: B38 VCS</td>
</tr>
<tr>
<td><strong>Discovery Location:</strong></td>
<td>Veracruz (Mexico)</td>
</tr>
<tr>
<td><strong>Subject:</strong></td>
<td>religion/mythology • human figure • face • game • sacrifice • ceremonial object • Inca ballgame</td>
</tr>
<tr>
<td><strong>Measurements:</strong></td>
<td>35 x 22.2 cm (height) (13 3/4 x 8 3/4 inches)</td>
</tr>
<tr>
<td><strong>Materials and Techniques:</strong></td>
<td>marble</td>
</tr>
<tr>
<td><strong>Descriptive Note:</strong></td>
<td>The hacha had ritualistic significance and likely served as an actual ballcourt marker. ..</td>
</tr>
</tbody>
</table>

E.g., Place names in the CONA record are controlled by links to TGN; artists to ULAN, Work Type to AAT, etc.
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 boulogne" OR "bologna, giovanni da"

From ULAN

Giambologna
Giovanni da Bologna
Giovanni Bologna
Jean Boulogne
Jean de Boulogne
Bologna, Giovanni da
How are vocabularies used? • 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

**Associative relationships**

**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)*

had patron

patron of

teacher of

student of

Display Date: from 1592
Start Date: 1592  End Date: 1608
How are vocabularies used?

- GRI (with ULAN and TGN) contributes to VIAF, the Virtual International Authority File.
- Link to other sources in Linked Open Data

http://viaf.org/
What is Linked Open Data (LOD)?

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

- When data is linked and open, it means that data is structured and published according to the principles of Linked Data, so that it can be both interlinked and made openly accessible and shareable on the Semantic Web. The goal of linked open data is to allow data from different resources to be interconnected and queried.

- In order for data to be understood and processed automatically by computers, data in records or about resources must be expressed in a standard format. Each thing (for example, a museum object, a place, or a person) must be represented by a persistent identifier (known as a Uniform Resource Identifier (URI)). A Resource Description Framework (RDF) is a language or format for describing things as well as the relationships between things as simple properties and values (known as 'triples'), while things are represented using URIs.
Getty vocabularies are linked to each other
Getty vocabularies providing conduits to links in the cloud