Getty Vocabulary Program: What We Do

WITH A BRIEF HISTORY

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Managing Editor
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 Getty Vocabulary Program
WHAT ARE THE GETTY VOCABULARIES?

Catalog, index, document, retrieve, research, discover
 Getty Vocabularies

www.getty.edu/research/tools/vocabularies/index.html

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

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

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

- **IA**, the *Getty Iconography Authority™* includes proper names, relationships, and dates for iconographical narratives, religious or fictional characters, historical events, names of literary works and performing art (e.g., *Adoration of the Magi, Viaggio dei Re Magi, Flood of Deucalion, French Revolution, Oluwainipilele, Xibalba, Нифльвейд, Shiva, Bouddha couché*)

- **CONA**, the *Cultural Objects Name Authority®* includes titles, artist attribution, creation dates, relationships, and location for works of art, architecture, and other cultural works, whether extant or destroyed (e.g., *The Lacemaker, La Dentellière, Merlettaia, Lion Throne Room, 神奈川沖浪, Great Wave, Die große Welle, Chayasomesvara Temple, Hagia Sofia, Αγία Σοφία*)
Getty Vocabularies are thesauri

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

Objects Facet
- Furnishings and Equipment
- Containers
- <culinary containers>
- <vessels for serving / consuming food>
- rhyta

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

- rhyta
distinguished from
- rhyton
- rheas
- rheons
- ritón
Scope of each Getty Vocabulary

**AAT**

*Art & Architecture Thesaurus®*

Includes **generic terms**, dates, relationships, sources, and notes for work types, roles, materials, styles, cultures, techniques, and other concepts

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**Sample record**

**AAT_ID**: 300011329

**Terms**:
- bas-reliefs (pref, en, fr)
- bas-relief (en, fr)
- low reliefs (en)
- bas-reliëfs (nl)
- travertino (es)
- bassorilievo (it)
- bajos relieves (es)
- travertin (fr)
- Flachreliefs (de)
- 浮雕 (雕塑) (zh; Chinese traditional)
- qián fú diāo (Chinese (transliterated Hanyu Pinyin))
- qián fu diào (Chinese (transliterated Pinyin without tones))
- ch‘ien fu tiao (Chinese (transliterated Wade-Giles))

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**Hierarchical Relationships**

Objects Facet
- Visual and Verbal Communication
  - Visual Works
    - <visual works by material or technique>
      - sculpture (visual works)
      - <sculpture by technique>
      - reliefs (sculptures)
      - bas-reliefs (sculpture)

**Associative Relationships**

produced by ...
- bas-relief (technique) [300053623]

distinguished from ...
- high reliefs (sculpture) [300184782]

**Scope Notes**

- Refers to works executed in relatively shallow relief. (en)
- Beeldhouwwerken uitgevoerd in relatief laag reliëf. (nl)
- Usese para obras ejecutadas en relieve relativamente superficial. (es)
- 指浮雕图案较浅的作品. (zh)
- Bezeichnet eine Arbeit, die in relativ flachem Relief ausgeführt ist. (de)

**Contributors**: AS-Academia Sinica, CDHP-DIBAM, GCI, ICCD, IFM-SMB-PK, RKD, AAT-Ned, VP


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**Five Getty Vocabularies**

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Scope of each Getty Vocabulary

TGN

*Getty Thesaurus of Geographic Names®*

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

Is a thesaurus, but through LOD, TGN may be linked to GIS and maps.

Sample record

*TGN_ID:* 300011329

*Names:*
- Siena (pref, en,it,de,nl,fr,es)
- Sienna (en, it)
- Sienne (fr)
- Σίένα (el)
- 锡耶纳 (zh)
- Сиенна (ru)
- סיינה (he)
- シエーナ (ja)
- Sienese (en, adj)
- Senae (historical, la)
- Saena Julia (historical, la)
- Sena (historical, Etruscan)

*Hierarchical Rel. (polyhierarchical)*

World (facet)
- ... Europe (continent)
- ... Italy (nation)
- ... Tuscany (region)
- ... Siena (province)
- ... Siena (inhabited place)

*Associated Rel.*
- ally of Pisa (inhabited place) (7006082)

*Place Types:*
- Attainable place (flourished by 6th century BCE)

*Contributors: BHA, FDA, GRILPS, VP*

*Sources:*
Scope of each Getty Vocabulary

ULAN

Union List of Artist Names®

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

Sample record

**ULAN_ID:** 500014514

**Names:**
Gaudí, Antoni (ca,es,en,fr,it)
Antoni Gaudí
Cornet, Antoni Gaudí
Cornet, Antonio Gaudí y
Gaudí, Antoní
Gaudí i Cornet, Antonio
Gaudí Jornet, Antoni
Gaudí y Cornet, Antoni
Gaudí Jornet, Antoni
Gaodi, Antonio
Gaudi, Antonio
Gaudi, Antoni
Gaudí, Antòni
גאודי
, אנטוניו (he)
安东尼·高迪 (zh)

**Nationalities:**
Spanish (pref)
Catalan

**Roles:**
AAT
artist (pref)
architect
landscape architect
furniture designer

**Gender:**
Male

**Birth and Death Places:**
Born: Reus (Tarragona province, Catalonia, Spain) (inhab place)
Died: Barcelona (Barcelona province, Catalonia, Spain) (inhab place)

**Associative Relationships:**
collaborated with .... Torres-García, Joaquín (Uruguayan painter and theorist, 1874-1949) 1903-1904 [500031259]
worked with .... Martorell y Montells, Joan (Spanish architect, 1833-1906) [500072753]
student of .... Sala Cortes, Emilio (Spanish architect, active late 19th century) [500287019]

**Contributors:**
VP, JPGM, Avery, FRICK, WCI, Prov, GRIP, BHA, CCA

**Sources:**

Scope of each Getty Vocabulary

IA
Getty Iconography Authority

New resource that focuses on subjects and topics relevant to art, architecture, and related disciplines
Includes multilingual and multicultural proper names, relationships, and dates for iconographical narratives, religious or fictional characters, themes, historical events, and named literary works and performing arts

Sample record

IA_ID: 1000085

Names:
Avalokiteshvara (en)
Avalokiteśvara (en)
Avalokitesvara (en)
अवलोकितेश्वर (sa)
Spyan ras gzigs (Tibetan transliterated)

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

Hierarchical Relationships
Top of the IA hierarchies:
Legend, Religion, Mythology
Buddhist iconography
Buddhist characters
Avalokiteshvara (Buddhist iconography)

Associative Relationships
associated with .... Krishna (Hindu deity)
counterpart is .... Guanyin (Buddhist bodhisattva)
counterpart is .... Tara (Hindu-Buddhist deity)
has as manifestation .... Amoghapasa (Buddhist character)
author of .... Great Compassion Mantra (incantation, Buddhist, translated 7th/8th century)

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

Contributors & sources

LINKS to other resources: LOC, Iconclass
### Scope of each Getty Vocabulary

**CONA**

Cultural Objects Name Authority®

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

### Sample record

**CONA ID:** 700000141

**Titles/Names:**
- Hagia Sophia (en)
- Ayasofya (tr)
- Ἱερὸς Ναὸς τῆς Θεοτόκου (gr)
- Agia Sophia
- Hagia Sophia
- Sainte-Sophie (fr)
- Santa Sofía (es)
- Sancta Sophia (la)
- Sancta Sapientia (la)
- Holy Wisdom (en)
- Saint Sophia (en)
- 圣索菲亚大教堂 (zh)

**Catalog Level:** item

**Work Types:**
- church (historical)
- mosque (historical)
- museum
- basilica

**Classification:**
- architecture

**Creation Date:**
- original structure dated from 4th century CE; present structure built 532-537 CE; rebuilt in 12th century

**Creator Display:**
- Anthemios of Tralles (Byzantine, ca. 474-ca. 534) and Isidoros of Meletus, the Elder (Byzantine, active mid-6th century)

**Locations:**
- **Current:** Istanbul (Turkey)
  - **Address Note:** 41.008548°N; 28.979938°E
- **Mat & Tech:** system bearing masonry, centralized plan; ashlar and brick; interior surfaces are sheathed with polychrome marble, porphyry, and mosaics
- **Dimensions:** central dome: diameter 31 meters (102 feet); height 56 meters (184 feet)

**Styles:**
- Byzantine | Ottoman

**General Subject:**
- architecture

**Type:** isness

**Religion and Mythology:**
- Extent: purpose

**Specific Subjects:**
- Holy Wisdom (Christian allegory)

**Contributors:**
- VP, BWR

**Sources:**
- Maidstone, Hagia Sophia (1988); Built Works Registry database (2015-)

**<IActionResult:**
- Getty Vocabulary Program
ORIGINS

Catalog, index, document, retrieve, research, discover
History of the Getty Vocabularies

- Getty was a trailblazer in
  a) committing resources to standards and vocabularies for art information, and
  b) bringing together disparate communities under Getty leadership
- AAT, ULAN, and TGN were begun in 1979-1980s
- Formerly part of the Art History Information Program

Partial group of AHIP staff at new Getty Center, 1997
History of the Getty Vocabularies

- Getty Vocabularies were envisioned as tools to address needs of the art information, collecting, and research communities, to support indexing and retrieval, scholarly discovery.
- From the beginning, meant to be authoritative (not authoritarian), compliant with standards, containing rich data and links.
- Designed separately, united at Getty AHIP.
- Thanks to an army of visionaries and editors, including Toni Petersen, Eleanor Fink, Henry Millon, Murtha Baca, Jim Bower, Patricia Harpring.
- AAT began at Williams College, developed by a panel of experts; support from CASVA and Getty.
AAT candidates were submitted on thousands of paper forms; published warrant was required

From user community: visual resources collections, art libraries, art repositories, some from conservation

Entered by hand in a custom-made editorial system, vetted by a dozen editors

AAT and ULAN were published as books; soon available on diskettes, then online in 1997
History of the Getty Vocabularies

Thanks to the visionaries committed to art information access for research and cataloging

- ULAN and TGN were informed by the CIHA TAU (Thesaurus Artis Universalis) for artists and places important to art history
- Advised by expert committees
- Core initial data was compiled from existing Getty projects’ data and freely available US government geographic resources
- CONA & IA were based on the CDWA (Categories for the Description of Works of Art) model, which itself was the result of user community consensus on best practice
History of the Getty Vocabularies
Thanks to the visionaries committed to art information access for research and cataloging

- AHIP resided at Getty offices in Santa Monica until 1997
- When the Getty Center opened, we moved
- Our core activity has always been to acquire, process, and disseminate the Getty vocabularies to our core users
- Variety of formats, XML, Relational Tables, APIs, and LOD
- AAT, ULAN, TGN, CONA, and IA all share the same core data structure and the same core editorial rules
- From the beginning, they have been valued as authoritative because they are compiled by experts, contributors and sources are cited, and persistent numeric IDs identify the records, terms, other data associated with each concept
The Getty Vocabularies grow daily

Compiled through contributions from qualified, trained individuals representing institutions (visual resources collections, museums, art libraries, bibliographic indexing projects, international translation projects)

Technical support for loading and dissemination from Getty Digital (formerly Getty ITS)

The Vocabulary Program also creates materials and conducts training, workshops, and various publications covering the creation, contribution, and use of the Vocabularies

From the beginning, our work has been done in consultation with the user community

E.g., the International Terminology Working Group
AVAILABLE GETTY VOCABULARY RESOURCES

Catalog, index, document, retrieve, research, discover
To find resources, start on the landing page.
Contribute to the Getty Vocabularies

The Getty vocabularies are compiled resources that grow through contributions from Getty projects and other institutions. Contributors to the Getty vocabularies include museums, libraries, archives, special collections, visual resources collections, bibliographic and other documentation projects, and large translation and transcription projects for the Getty's Kress Fellowships and the Getty Scholar Program. These contributions, together with contributions from the Getty's individual researchers and other collaborators, help to grow the vocabularies. The vocabularies are recognized as premier resources for indexers and researchers working in art, architecture, and related disciplines. By contributing to the vocabularies, you can benefit from having your data incorporated in standard vocabularies used in the field and for the use of the broader community for linking, research, and discovery.

Why contribute?
The Getty vocabularies are recognized as premier resources for indexers and researchers working in art, architecture, and related disciplines. By contributing to the vocabularies, you can benefit from having your data incorporated in standard vocabularies used in the field and for the use of the broader community for linking, research, and discovery.

How to contribute
Contributions must meet the following criteria: they must be submitted by an authorized contributor; must be within scope of the vocabulary; must contain minimum information; and must be submitted in the prescribed format, including as Linked Open Data. See the Quick Reference Guide for more information.

XML contribution format
Contributions for AAT, TGN, ULAN, and CONA are accepted in the prescribed Getty Vocabulary XML Schemas for Contributions. Schemes for AAT, TGN, and ULAN and a new schema for CONA are available in zipped files.

Contributors to the Getty Vocabularies

<table>
<thead>
<tr>
<th>Brief Name</th>
<th>Full Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT-AD</td>
<td>AAT Advisory Committee (Williamstown, Massachusetts)</td>
</tr>
<tr>
<td>AS-Academia Sinica</td>
<td>Academia Sinica (Academia Sinica; Nankang, Taiwan)</td>
</tr>
<tr>
<td>TELM-nw</td>
<td>Academia Sinica's Taiwan E-Learning &amp; Digital Archives Program (Nankang, Taiwan)</td>
</tr>
<tr>
<td>AAM</td>
<td>Aaland Art Museum (Chapel Hill, North Carolina)</td>
</tr>
<tr>
<td>AKAG</td>
<td>Albright-Knox Art Gallery (Buffalo, New York)</td>
</tr>
<tr>
<td>AC</td>
<td>Allegheny College (Allegheny, Pennsylvania)</td>
</tr>
<tr>
<td>ACC</td>
<td>American Art Collaborative (United States)</td>
</tr>
<tr>
<td>AASLH</td>
<td>American Association for State and Local History (Nashville, Tennessee)</td>
</tr>
</tbody>
</table>
Editorial Guidelines

These documents contain information about editorial practice for the Art & Architecture Thesaurus (AAT®), the Getty Thesaurus of Geographic Names (TGN®), the Union List of Artist Names (ULAN®), the Cultural Objects Name Authority (CONA®), and the Getty Iconography Authority (IA™). The guidelines are subject to frequent modification and addition.

Purpose of these guidelines

These editorial guidelines for the AAT, ULAN, TGN, CONA, and IA are intended for contributors to the Getty vocabularies. All contributors and implementers of the vocabulary data should understand and apply these guidelines.

- Editorial Guidelines: Art & Architecture Thesaurus (AAT)
- Editorial Guidelines: Getty Thesaurus of Geographic Names (TGN)
- Editorial Guidelines: Union List of Artist Names (ULAN)
- Editorial Guidelines: Cultural Objects Name Authority (CONA)
- Editorial Guidelines: Getty Iconography Authority (IA)
- Overview for contributors (PDF, 8.7 MB, 139pp)
- AAT Translations: Multilingual Equivalency Work
  - News: Recently added Getty vocabulary records (Revised 1.3 MB, 84pp)
  - Editorial issues and contributions (August 2017) (PDF, 7.7 MB, 24pp)
  - Editorial issues and contributions 2 (August 2016) (PDF, 7.5 MB, 24pp)
  - Technical issues: Part 1 (August 2016) (PDF, 3.5 MB, 34pp)
  - Technical issues: Part 2 (August 2017) (PDF, 4.4 MB, 12pp)

How to create records

3.3.2.5

RULES for Terms

3.3.2.5.1

Minimum requirements

Required: Record at least one term for the concept record. If a concept is known by multiple terms, include them in repeating instances of this field. All terms in one record must be true synonyms.

3.3.2.5.2

How to record Terms

- It is required to record at least one term — the record-preferred term, which is the word or phrase used most often in scholarly literature to refer to the concept. Excluded are proper names of persons, organizations, geographic places, named subjects, and named events.

- Warrant for terms
  The descriptor must be found in at least three authoritative sources. All other terms, including alternate descriptors or used for terms, must be found in at least one authoritative source. List as many synonymous terms or translated terms as have at least one legitimate source or have been contributed by an authorized translation project.

3.3.2.5.3

Alphabet and diacritics

- For the descriptor
  Use the Roman alphabet to record the record-preferred term. The record-preferred term should typically be in English, if possible. Other terms in the record may be in other alphabets and writing systems.

  There may be a preferred term for each language.

  Express terms in Unicode.

3.3.2.6

Documentation

- Documentation for contributors (PDF, 8.7 MB, 139pp)

3.3.2.7

Accessing the Glossary

- Online access to the Glossary (PDF, 1 MB, 28pp)

3.3.2.8

Testing and Consultation

- Testing and consultation procedures (PDF, 1 MB, 18pp)

3.3.2.9

List of contributors

- List of contributors to the Getty vocabularies (PDF, 1 MB, 18pp)

3.3.2.10

List of contributors

- List of contributors to the Getty vocabularies (PDF, 1 MB, 18pp)
4.4.2 Contributing Large Translations

*Guidelines for Multilingual Equivalency Work (Patricia Harpring)*

Please use the guidelines here with *Introduction to Controlled Vocabularies* (Harpring, Patricia, 2013), and the *Editorial Guidelines* on this site. The lengthy, comprehensive discussions in these works are not repeated here.

Details of the guidelines here are augmented and revised as necessary over time, typically as new issues arise in translation projects.

For occasional terms in foreign languages rather than large translation projects, see the *AAT Editorial Guidelines: Terms: Translating terms.*

4.4.2.1 Quick Reference Guide

Below is a brief list of critical guidelines for establishing multilingual equivalencies in the AAT.

- Contact the *Getty Vocabulary Program* before beginning a translation project.
- Follow the guidelines in the *AAT Editorial Guidelines*.
- For each language, organize the translations as a unified project managed by the participating translating institutions.
- Assemble an expert team for translations, including experts in both a) the content and b) the source and target languages.
- Organize the work logically, either a) working facet by facet or b) using a two-step approach, by first mapping existing terminology in the target language back to the master AAT, and then proceeding...
Training Materials

The documents on this page include presentations and other training materials for the Art & Architecture Thesaurus (AAT®), the Getty Thesaurus of Geographic Names (TGN®), the Union List of Artist Names (ULAN®), the Cultural Objects Name Authority (CONA®), the Getty Iconography Authority ([IA]™), Categories for the Description of Works of Art (CDWA), Cataloging Cultural Objects (CCO), and standards in general. These materials are subject to frequent modification and addition.

- Getty Vocabularies and Contributing
- Getty Vocabularies: Conferences, Linked Open Data, Technical Issues
- Cataloging, CDWA, and Other Standards
- International Terminology Working Group

Getty Vocabularies and Contributing
Presentations describing the history, scope, and characteristics of the Getty Vocabularies and how to contribute to them. For more details on contributions, see Contributing to the Getty Vocabularies. For detailed editorial rules for contributing, see the Editorial Guidelines. For comprehensive information on controlled vocabularies, see Introduction to Controlled Vocabularies.

- Introduction to Controlled Vocabularies: Companion to the Book (2019) (PDF, 9.2 MB, 91pp)
- Overview of the Getty Vocabularies (2019) (PDF, 8.5 MB, 79pp)
- Abridged Overview of the Getty Vocabularies (2019) (PDF, 8.4 MB, 43pp)
- Multilingual Equivalency: Translating the AAT (2019) (PDF, 7.6 MB, 99pp)
- Contributing to the Getty Vocabularies (2019) (PDF, 15.4 MB, 197pp)
- Indexing Art Information with Getty Vocabularies (2019) (PDF, 12.1 MB, 129pp)
- AAT: Introduction and Overview (2016) (PDF, 11.3 MB, 228pp)
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.
Getty Vocabularies Frequently Asked Questions

- Is it possible to obtain the Getty vocabulary data?
- What is the history of the Getty vocabularies?
- Getty Vocabulary Program: What do we do?
- Why isn’t the term I need in the vocabularies?
- How do I know which is the "correct" term in a vocabulary record?
- Who contributes to the Getty vocabularies?
- What are the sources of information for the vocabularies?
- How often is the information updated?
- What areas are currently being developed in the vocabularies?
- Do the Web versions of the AAT, ULAN, TGN, CONA, and IA contain all available data from the vocabularies?
- Are there diacritics (accent marks) in the vocabulary data?
- How may I cite the vocabularies in MARC?

Is it possible to obtain the Getty vocabulary data?
The three published Getty vocabularies, AAT, TGN, and ULAN, CONA, and IA, are made available in Web search interfaces to support limited research and cataloging efforts. Companies and institutions interested in regular or extensive use of the vocabularies may use AAT, TGN, or ULAN in XML format, relational tables, or as Linked Open Data. The new Getty resources, CONA and IA, are currently in development and not yet available as data files.
Obtain the Getty Vocabularies

How to obtain the Getty Vocabulary data

- **Licensing:** All Getty Vocabulary data found on this site are made available openly and free from fees under the [Open Data Commons Attribution License (ODC-By) 1.0](http://opendatacommons.org/licenses/by/1.0/). Data has been compiled from various institutional contributors using published sources; the contributor and sources should be cited along with the Getty as attribution.

- **On the Getty Web site:** Users may search for individual terms and names in the Getty Vocabularies online. The data is refreshed monthly. The Getty Vocabularies are made available via this Web interface to support limited research and cataloging efforts. See below how URIs may be used to refer to the vocabulary records on this site.

- **LOD formats:** Users may acquire the full data for AAT, TGN, and ULAN, in JSON, RDF, N3/Turtle, and N-Triples through our Linked Open Data (LOD) project. Data is refreshed monthly.

- **Additional formats:** The AAT, ULAN, and TGN are available in monthly releases of XML and relational tables. The data are also available via Web Services, refreshed monthly.

See links to the full data sets, data dictionaries, and more information at the [Download Center](#).

**NOTE:** Any or all of these additional formats will likely be discontinued in the future. Please plan your transition to accessing the Getty Vocabulary releases in LOD formats.

- **Outside availability:** Incorporated in vendors' systems: The Getty Vocabularies may be found in various collection management systems or

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**GettVocabularies as Linked Open Data**

Do you use the Getty Vocabularies LOD? Take the survey and help us improve our services.

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
- URIs (Uniform Resource Identifiers)
- What is LOD?
- Introduction to Getty Vocabularies as LOD (PDF, 3.8 MB, 46pp)
- List of External Advisors (PDF, 88KB, 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](http://opendatacommons.org/licenses/by/1.0/). CONA is being mapped to CIDOC CRM.

- 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

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News and Status of the Project

Getty Vocabulary Program
Search the databases online

 Getty

Art & Architecture Thesaurus® Online

Search the AAT

Find Term or ID: [input field]

Note: [input field]

AND OR

Search

Pop-up Search

Browse the AAT hierarchies

Copyright information

Search Tips

For the Find Term or Note field, you may use AND and OR (all in upper case) [e.g., 1 windsor chairs, 2) chairs OR rockers, 3) chairs OR rockers OR armchairs, 4) bow-back AND windsor, 5) windsor AND (rockers OR chairs), 6) (windsor OR boston) AND (rockers OR chairs)]. Wildcard is the asterisk (*); right truncation only. To find an exact match rather than a key word in the Find Term field, use quotes [e.g., "chairs"]. If you wish to search the term and note together, click on the buttons for AND or OR.

About the AAT

Learn about the purpose, scope and structure of the AAT. The AAT is an evolving vocabulary, growing and changing thanks to contributions from Getty projects and other institutions. Find out more about the AAT's contributors.

F.A.Q. about the AAT

Here you will find a list of the most frequently asked questions about the thesaurus.

AAT@getty.edu

Click here to send a message to the AAT editors.
Millions of records are available, refreshed monthly.

Art & Architecture Thesaurus® Online Search Results

Find Name: frescoes OR "murals"

Logic:

Note:

5 results

Click the icon to view the hierarchy. Check boxes to view multiple records at once.

1. frescoes (paintings)
   <paintings by material or technique>, paintings (visual works), ... Visual and Verbal Communication (hierarchy name) [300177433]

2. fresco papers
   <wall coverings by location or context>, wall coverings, ... Furnishings and Equipment (hierarchy name) [300204198]
   frescoes (wallpapers)

3. mural paintings (visual works)
   <paintings by location or context>, paintings (visual works), ... Visual and Verbal Communication (hierarchy name) [300033644]
   murals (paintings)

4. murals (general, decorations on wall)
   <visual works by location or context>, visual works (works), ... Visual and Verbal Communication (hierarchy name) [300182732]
Included are rich data, links to other formats.
Primary areas of activity of the Getty Vocabulary Program and Getty Digital technical support

- Contributions
- Processing
- Outreach
- Training
- Publications
- Dissemination
- Integration
- Tools
MORE ABOUT OUR ACTIVITIES

Catalog, index, document, retrieve, research, discover
The mission of the Getty Vocabulary Program (GVP) is to produce rich, structured, authoritative vocabularies, in compliance with international standards, that provide a powerful conduit for inter-related, linked, and meaningful research, discovery, and understanding of the visual arts and their various histories, in collaboration with the international community, and utilizing training and outreach to inform the field.

One of our primary goals is to broaden and enrich the scope and coverage of the Getty Vocabularies to become ever more multilingual, multicultural, inclusive, and representative of the subjects and priorities of the GRI, the Getty, and global art history.
Basic workflow

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

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

Editors have monthly quotas for work done to allow anticipation of time frame for publications to ensure not too much time is spent on unsolvable tasks
### Who are the contributors?

- Getty projects
- 300 institutions, consortia, other expert groups

### How is the data generated?

- They may research and create original data for the purpose of contribution
  E.g., translations: Spanish, Dutch, Chinese, German
- Or may map data already collected in the course of their own work
  E.g., repositories and documentation projects
- Contributions: 10s of thousands per year

### Getty projects are major contributors

<table>
<thead>
<tr>
<th>Provenance Index</th>
<th>GRI Photo Archive</th>
<th>GCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRI Special Collections</td>
<td>GRI Library</td>
<td>JPGM</td>
</tr>
</tbody>
</table>

### Examples of other contributors

- Centro de Documentación de Bienes Patrimoniales, Santiago
- Netherlands Institute for Art History
- Staatliche Museen zu Berlin Preussischer Kulturbesitz
- Academia Sinica of Taiwan
- Canadian Heritage Information Network
- Istituto Centrale per il Catalogo e la Documentazione, Rome
- Avery Architectural & Fine Arts Library
- Courtauld Institute
- Canadian Centre for Architecture
- Frick Art Reference Library
- Indiana University Digital Collections
- Harry Ransom Center, University of Texas at Austin
- Bunting Visual Resources Library, U. of New Mexico
- Pinacoteca do Estado de São Paulo
- Rijksmuseum in Amsterdam
- Mystic Seaport Museum in Connecticut
- Smithsonian National Museum of African Art
- Grove Art online
- Florentine Codex

### Image collections, libraries

### National documentation agencies, proj.

### Art repositories

### Publishers

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

**Coordinating contributions**

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

![Photo of the ITWG members](image)
Steps for receiving and processing contributions

- Communication with the Getty Vocabulary Program
- Are you mapping existing data or making new records?
- Small contributions via email or online contribution form
- Larger contributions are bulk loads
- Click through the contribution agreement
- Send sample files, back-and-forth if there are problems
- Send full data files for bulk loads
- Data must be normalized, reconciled, transformed, and loaded
- Data is vetted, processed, and edited as necessary
- May include merging, if incoming record matches an existing record
- Data is moved from candidate to non-candidate
- Data is published with regular monthly contributions
### Merging candidate data in one record

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

### Publishing data

- Contributors’ data is loaded and processed by the Getty Digital technical team and the Vocabulary Program editorial team
- Data is merged, normalized, and published
- Refreshed for users every two weeks
- Releases: Online search, XML, relational tables, APIs, LOD

<table>
<thead>
<tr>
<th>ULAN ID</th>
<th>Matching name</th>
<th>Display biography</th>
<th>Roles (AAT-controlled)</th>
<th>Nationality (AAT-controlled)</th>
<th>Estimated birth date</th>
<th>Estimated death date</th>
</tr>
</thead>
<tbody>
<tr>
<td>500017409</td>
<td>Guardi, Francesco</td>
<td>Venetian painter, 1712-1793</td>
<td>artist painter landscapist</td>
<td>Venetian Italian</td>
<td>1712</td>
<td>1793</td>
</tr>
<tr>
<td>500312969</td>
<td>Guardi, Francesco</td>
<td>Italian noble, born 1514</td>
<td>noble</td>
<td>Italian</td>
<td>1514</td>
<td>1614</td>
</tr>
<tr>
<td>500412666</td>
<td>Guardi, Francesco</td>
<td>Italian artist, ca. 1712-1793</td>
<td>artist</td>
<td>Italian</td>
<td>1707</td>
<td>1793</td>
</tr>
</tbody>
</table>

A name matches exactly; role matches; a nationality matches; dates within range?
Merging data in one record

Relationships and linking are built into and among the Getty vocabularies. Merged in one record

Attribution to contributor and source is maintained, but merged and unified, and various “preferred” data is flagged.
### Resulting ULAN record is a merged, homogenous entity

#### Instructions
- **Contributors**
  - Avery, BHA, GRisc, GRL, GRLPA, Prov, VP, WCI, WCP, WL-Courtauld

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

#### Merged information, redundancy eliminated

#### Note links to other ULAN records, to AAT and TGN

---

#### Nationalities:
- Italian *(preferred)*
- Venetian

#### Roles:
- artist *(preferred)*
- painter
- landscapist

#### Gender:
- male

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

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

Steering committee advises
ITWG (International Terminology Working Group) periodic meetings

Contribution
First contact with contrib (type, number, scope, format)
Vocab logs new contrib (name, ID, contact)

Receive Data
Online for AAT or ULAE

Contrib fills in Click-Through LOA
FMP Contrib File
VCS: Contrib File

Write editorial guidelines and training
Conduct training, publish articles or books
Open editorial guidelines / training

Grooming based on quarterly usage monitoring
Organize ITWG meetings
Monthly production reports

Online archival documentation
Site for XRM, REA

Maintenance
Quality checks for vocabulary organization

Digital test: ensure completeness
Run tests: maintain

Site: data testing
Online access data

Support: feedback, data updates
Project: reports

 Getty Vocabulary Program

Patricia Harpring

Getty Vocabularies: What We Do? Revised October 2020
Systems / Procedures diagram: Getty Vocabularies
Systems / Procedures diagram: Getty Vocabularies
Systems / Procedures diagram: Getty Vocabularies
Systems / Procedures diagram: Getty Vocabularies
STATUS OF THE GETTY VOCABULARIES

Catalog, index, document, retrieve, research, discover
Statistics for the Getty Vocabularies

Totals as of 26 April 2019

<table>
<thead>
<tr>
<th>Vocab</th>
<th>Records</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT</td>
<td>60,635</td>
<td>400,334</td>
</tr>
<tr>
<td>ULAN</td>
<td>312,442</td>
<td>928,660</td>
</tr>
<tr>
<td>TGN</td>
<td>2,531,649</td>
<td>4,084,938</td>
</tr>
<tr>
<td>CONA</td>
<td>6,677</td>
<td>13,256</td>
</tr>
<tr>
<td>IA</td>
<td>1,757</td>
<td>5,002</td>
</tr>
</tbody>
</table>

Records edited or created FY19Q3

<table>
<thead>
<tr>
<th>Vocab</th>
<th>Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT</td>
<td>903</td>
</tr>
<tr>
<td>ULAN</td>
<td>11,834</td>
</tr>
<tr>
<td>TGN</td>
<td>1,940</td>
</tr>
<tr>
<td>CONA</td>
<td>15</td>
</tr>
<tr>
<td>IA</td>
<td>23</td>
</tr>
</tbody>
</table>

AAT Loaded, awaiting processing

Incomplete records languish awaiting research, clean contributions are processed quickly

<table>
<thead>
<tr>
<th>Contrib</th>
<th>Candidates</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS</td>
<td>19</td>
</tr>
<tr>
<td>BHA</td>
<td>3</td>
</tr>
<tr>
<td>CCA</td>
<td>2</td>
</tr>
<tr>
<td>CDBP-TRP</td>
<td>701</td>
</tr>
<tr>
<td>CHIN</td>
<td>15</td>
</tr>
<tr>
<td>GCI</td>
<td>12</td>
</tr>
<tr>
<td>GRISC</td>
<td>8</td>
</tr>
<tr>
<td>ICCD</td>
<td>11,628</td>
</tr>
<tr>
<td>IUAV</td>
<td>1</td>
</tr>
<tr>
<td>ifM-SMB</td>
<td>6</td>
</tr>
<tr>
<td>PMA</td>
<td>2</td>
</tr>
<tr>
<td>RKD / ANET</td>
<td>91</td>
</tr>
<tr>
<td>SIK-ISEA</td>
<td>8</td>
</tr>
<tr>
<td>Suzzalo-UW</td>
<td>3</td>
</tr>
</tbody>
</table>

Files awaiting loads and potential contributions (issue: need tech support)

<table>
<thead>
<tr>
<th>Vocab</th>
<th>Potential Contribs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT</td>
<td>36</td>
</tr>
<tr>
<td>ULAN</td>
<td>28</td>
</tr>
<tr>
<td>TGN</td>
<td>9</td>
</tr>
<tr>
<td>CONA</td>
<td>10</td>
</tr>
<tr>
<td>IA</td>
<td>6</td>
</tr>
</tbody>
</table>

Each contribution could entail multiple files, may be hundreds or thousands of records

E.g.,
CHIN: 15,000 AAT records
FloCo: 400 records, all vocabs
Belvedere: 20,800 ULAN recs
Heard Museum: 26,000 ULAN recs

Getty Vocabulary Program
Use of the Getty Vocabularies

• Always at the top of resources used at the GRI
  • E.g., Online Web searches

• Access to training materials and editorial guidelines

• Highest number of pages accessed at GRI every month (17,000 page views, 200,000 queries)
  • Among the highest at Getty overall
• Demonstrating usefulness is important to proving the value of the project, re. budgets, etc.

<table>
<thead>
<tr>
<th>No.</th>
<th>Page</th>
<th>Views</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Vocabs: AAT</td>
<td>16,106</td>
</tr>
<tr>
<td>2</td>
<td>Vocabs: ULAN</td>
<td>11,826</td>
</tr>
<tr>
<td>3</td>
<td>Vocabs: TGN</td>
<td>9,479</td>
</tr>
<tr>
<td>4</td>
<td>GRI landing page</td>
<td>5,676</td>
</tr>
<tr>
<td>5</td>
<td>GRI list of resources</td>
<td>5,171</td>
</tr>
<tr>
<td>6</td>
<td>Exhibition: monumentality</td>
<td>4,273</td>
</tr>
<tr>
<td>7</td>
<td>Vocabs: general information</td>
<td>4,245</td>
</tr>
<tr>
<td>8</td>
<td>Provenance: search</td>
<td>3,895</td>
</tr>
<tr>
<td>9</td>
<td>Library</td>
<td>3,345</td>
</tr>
<tr>
<td>10</td>
<td>Provenance: general information</td>
<td>2,690</td>
</tr>
<tr>
<td>11</td>
<td>BHA (Bibliography for History of Art)</td>
<td>2,091</td>
</tr>
<tr>
<td>12</td>
<td>Photo Archive</td>
<td>1,759</td>
</tr>
<tr>
<td>13</td>
<td>GRI: Digital Collections: Turkey photos</td>
<td>1,673</td>
</tr>
<tr>
<td>14</td>
<td>Vocabs: CONA</td>
<td>1,489</td>
</tr>
<tr>
<td>15</td>
<td>Vocabs: CDWA (cataloging rules for art)</td>
<td>1,143</td>
</tr>
</tbody>
</table>
Use of the Getty Vocabularies

- Data release files also have high numbers of users
- Relational Tables, XML, APIs
- Example illustrates LOD with very high use for one month
- AAT is also available at satellite sites in Germany, Taiwan, Chile, the Netherlands
- Vocabularies are available in various vendor systems
Integration of the Getty Vocabularies

- Vocabulary data is available in several consolidated resources
  - **VIAF**: ongoing, ULAN, concordance of IDs from resources globally
  - Internal integration, current
    - **Provenance Index**: AAT, ULAN, TGN; issue = local authority for artists verbatim names
    - **PhotoTech**: AAT, ULAN, TGN, CONA
  - **TMS**: Gallery Systems, updating Getty Vocabs on board; or link in a new Web product
  - **Alma**: Ex Libris, how to incorporate Getty Vocabs

http://viaf.org/
Linking the Getty Vocabularies

Relationships between the vocabularies
Linking the Getty Vocabularies

Relationships from the vocabularies to other Getty resources

Special Collections
Provenance
Photo Archive
GCI
JPGM

Getty Vocabulary Program
Linking the Getty Vocabularies

Relationships from the Getty vocabularies to other resources
Goals: Increased multilingual, multi-cultural, inclusive Vocabularies

Status: Current ULAN is heavily European, but our goal is to add more non-Western

Nat./Cultures in ULAN:
Records total: 305,684 (as of Feb. 2019)
Nat/cultures total linked: 351,773
[a person may have multiple nationalities, cultures]

Partial list of Nationality/Culture/Ethnicity
European 212,286
American 55,933
African American 517
Native American, First Nations 4,394 [Heard]
Mexican, Central-South 11,652
African 2,588
Middle Eastern 2,006 [soon greater, IMJ]
Indian subcontinent 1,370
East Asian 6,270
Canadian 4,812
Other 49,945

Total Records by Nat/Culture/Eth in ULAN

- Other
- American
- Canadian
- European
- Mexico,C&S Am
- Native Am
- African Am
- Middle E
- Indian subc
- East Asian
- African

Getty Vocabularies Program
Goals: Increased multilingual, multi-cultural, inclusive Vocabularies

Languages in AAT

136 different languages as of 27 April 2019

No of terms for top 20 languages
- English 165,905
- Chinese 91,839
- Dutch 63,336
- Spanish 56,188
- German 20,959
- Italian 14,444
- French 6,813
- Latin 2,141
- Portuguese 247
- Greek 70
- Nahuatl 49
- etc.

Number of Terms by Language in AAT

Status: Current AAT is in process of receiving several translations and increasing multilinguality.

Getty Vocabularies: What We Do? Revised October 2020
Users are already from all over the globe

Distribution of users, Vocab online search
149 countries total; top 50 in a year

<table>
<thead>
<tr>
<th>Country</th>
<th>Users</th>
<th>Country</th>
<th>Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>79597</td>
<td>Colombia</td>
<td>612</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>9125</td>
<td>New Zealand</td>
<td>594</td>
</tr>
<tr>
<td>Canada</td>
<td>6528</td>
<td>South Korea</td>
<td>565</td>
</tr>
<tr>
<td>Germany</td>
<td>5809</td>
<td>Portugal</td>
<td>553</td>
</tr>
<tr>
<td>France</td>
<td>5687</td>
<td>Sweden</td>
<td>542</td>
</tr>
<tr>
<td>Italy</td>
<td>4847</td>
<td>Czech Republic</td>
<td>522</td>
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<tr>
<td>Spain</td>
<td>4343</td>
<td>Ireland</td>
<td>480</td>
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<td>Netherlands</td>
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<td>Ukraine</td>
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<td>Australia</td>
<td>3378</td>
<td>Hungary</td>
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<td>Belgium</td>
<td>2106</td>
<td>Slovakia</td>
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<tr>
<td>Poland</td>
<td>2017</td>
<td>Turkey</td>
<td>348</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1962</td>
<td>Chile</td>
<td>336</td>
</tr>
<tr>
<td>Russia</td>
<td>1602</td>
<td>Indonesia</td>
<td>330</td>
</tr>
<tr>
<td>Japan</td>
<td>1572</td>
<td>Denmark</td>
<td>324</td>
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<tr>
<td>Mexico</td>
<td>1543</td>
<td>Croatia</td>
<td>306</td>
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<td>Brazil</td>
<td>1398</td>
<td>Finland</td>
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<tr>
<td>China</td>
<td>1200</td>
<td>Norway</td>
<td>294</td>
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<tr>
<td>Greece</td>
<td>1200</td>
<td>Singapore</td>
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<td>Argentina</td>
<td>1188</td>
<td>Puerto Rico</td>
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<td>Taiwan</td>
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<tr>
<td>Austria</td>
<td>894</td>
<td>unidentified</td>
<td>222</td>
</tr>
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<td>India</td>
<td>876</td>
<td>South Africa</td>
<td>215</td>
</tr>
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<td>Thailand</td>
<td>193</td>
</tr>
<tr>
<td>Philippines</td>
<td>667</td>
<td>Saudi Arabia</td>
<td>168</td>
</tr>
</tbody>
</table>

Total users by country for online Vocab search
12 months

Users are already from all over the globe.
Challenges:

- How to retain high productivity of loading and editorial processing with small staff
  - Working with the community for contributions
  - Need improved technical support for loading and processing
- How to retain high scholarly quality, attributions to sources, and rich data in releases focused on new technology
Thank you.