Getty Vocabulary Program: What We Do

WITH A BRIEF HISTORY

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Managing Editor

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Getty Vocabularies: Background and Context

Catalog, index, document, retrieve, research, discover
Find Getty Vocabs Online

For information about Getty Vocabularies, Google “getty vocabularies”

Or on the Getty site, do not search: instead, scroll down to “search art terms”

Search the data, access data releases, how to contribute, editorial guidelines, training materials, news

Contact us: vocab@getty.edu

Search Getty.edu

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Contact us: vocab@getty.edu
Find Getty Vocabs Online

Search online
Relational Tables
Web Services APIs
XML
LOD (GVP and Linked.Art)
SPARQL end point
OpenRefine Reconciliation

Open Data Commons
Attribution License (ODC-By) 1.0

Contact us:
vocab@getty.edu

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

Click the heading
scroll OR papyri

For information about Getty Vocabularies, see this site; search "vocabularies"

Search the data, access data releases, how to contribute, editorial guidelines, training materials, news

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vocab@getty.edu

Attribution License (ODC-By) 1.0
Getty was trailblazer in committing resources to standards and vocabularies for art information in 1980s

TAU, Thesaurus Artis Universalis; CIHA, Comité international d'histoire de l'art

Getty engaged disparate communities (visual resources, museums, libraries, special coll., archives, some scholars) under Getty leadership to reach consensus

History

1997

Art History Information Program (AHIP)
Over the years, Vocabs have changed with the requirements of our core community

Getty partners with international visual arts information community

Multilingual, multicultural, inclusive

Staff: Small editorial staff, working with one person at Getty Digital and consultants Ontotext

Contributions: Rely upon contributors’ having compatible and good quality data; technology

History

International Terminology Working Group (ITWG)
Why Getty Vocabularies?

- For some users, purpose is to promote consistency in assignment of preferred terms, or to provide multiple synonyms from which to choose, in cataloging and documentation.
- For other users, to link to the unique ID or otherwise reconcile to Getty Vocabularies’ data.
- For other users, in retrieval and discovery, to utilize variant terms, broader/narrower contexts, rich contextual data.
- For others, look-up resources of information.
• **Structured, linked vocabularies**: AAT, TGN, ULAN, CONA, IA
• **Relationships**: Thesauri, 3 relationships: equivalence (synonyms), hierarchical (broader-narrower), associative (btwn records, not hierarchical)
• **Standards-compliant**: Comply with standards for controlled vocabularies (ISO, NISO)
• **Rich knowledge bases**: not simple ‘value vocabularies’
• **Authoritative**: Vocabularies cite authoritative sources and contributors; but not authoritarian (may use variant terms)
• **Scope**: Getty Vocabularies strive to be ever more multilingual, multicultural, and inclusive, within domain of visual arts
• **Target Domain**: Since 1980s, traditional audience (art and architecture domains: visual resources, catalogers, museums), plus scholars, and related disciplines (archaeology, conservation)
• **Collaborative**: Grow through contributions from expert user community: > 350 institutions, consortia, scholarly projects, and individual scholars
Purpose and Context: Getty Vocabularies

- In a global environment where we strive to be more open and equitable, while maintaining high standards for scholarship and research, Getty Vocabularies intend to provide appropriate terms for art history and related disciplines.

- We do not yet have all the answers – successful resolutions in a rapidly changing world will be ongoing, occurring over months and years, and in concert with the expert contributor and user communities of Getty Vocabularies.

- Features of Getty Vocabularies that can allow multiple views of data to accommodate multilingual, multicultural, and inclusive access: polyhierarchy; associative relationships; preferences on language, sources, contributors; other flags; coreferences. See discussion at https://www.getty.edu/research/tools/vocabularies/Vocabs_unbiased_terminology.pdf
Catalog Level: item  Classification: paintings

Work Type: hanging scroll [AAT 300265079]  H: Current
Work Type: folding screen [AAT 300265156]  H: Historical

Title: Scene of Early Spring  Type: repository  Lang.: English
Title: 宋郭熙早春圖 軸  Type: repository  Lang.: Chinese

Creator Display: Guo Xi, Song Dynasty
   Index: Guo Xi (Chinese painter, 1023 - ca.1085 CE)  
   [ULAN 500125758]  Role: artist

Creation Date: 1072 CE; fifth year of Xining, first era of the Shenzong Emperor, Northern Song Dynasty
   Index: Start Date: 1072  End Date: 1072

Materials Display: painted scroll
   Index: color (pigment) [AAT 300264870]
   Index: ink [AAT 300015012]
   Index: silk (silkworm material) [AAT 300014072]
   Index: paper (fiber product) [AAT 300014109]
Dimensions: 158.3 x 108.1 cm
  Index: Value: 158.3  Unit: cm  Type: height
  Index: Value: 108.1  Unit: cm  Type: width
Location: National Palace Museum (Taipei, Taipei, Taiwan)
  [ULAN 500309392 ]  Type: current
Repository No.: Meta Data identification: 000053N000000000
Credit Line: National Palace Museum
Location: Bianliang (China) [TGN 7001845 ] Type: original
Inscription: On the right side, the painter wrote: "Early Spring. Painted by Guo Xi in the year of Ren-Zi
(49th year of the Chinese sexagenary cycle, referring to 1072 AD)."; 畫幅右側畫家自題：「早春。壬子（1072）年郭熙畫。」顧名思義，這幅畫作是在描寫瑞雪消融，雲煙變幻，大地復甦，草木發枝，一片欣欣向榮的早春景象
General Subject: landscapes
Specific Subjects: Renewal of Life [IA 901002238]
  spring (season) [AAT 300133097]  |  shan shui [AAT 300387301]
  trees [AAT 300132410]  |  streams [AAT 300008699]
  Pinus (genus) [AAT 300343658]  |  travel [AAT 300080094]
  floating perspective [AAT 300438516]  Extent: design element
Descriptive Note: Early Spring is here conceived of as a mist and forest filled mountain. The
brushwork registers infinite variations of pressure and ink: the silhouette of the rocks and boulders are
delineated with a heavy touch, the fog-washed trees with a light one....
(2010)
Standards for data content and structure

There are several types of controlled vocabularies and related specifications relevant for art and other cultural heritage information

- Subject heading lists
- Controlled lists
- Synonym ring lists
- Authority Files
- Taxonomies
- Alphanumeric classifications
- **Thesauri**

**Getty Vocabularies are thesauri**

- Ontologies
- Folksonomies
 Getty Vocabularies: Based in Standards

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

 Getty Vocabularies Are Thesauri

 Getty Vocabularies: Based in Standards
Compliant with national (NISO) and international (ISO) standards for thesaurus construction: ISO 25964-1:2011; ISO 25964-2:2013; ANSI/NISO Z39.19

Getty Vocabularies 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)

Editorial rules are based on common practice, reflect best practice
Links between Vocabularies and rich data structure

Not simple ‘value vocabularies’

Link to outside resources as well; Coreferences

Data is structured and published in standard way to be interlinked and made openly accessible and shareable on the Semantic Web

Digital Art History
Data releases

- Contributed data is compiled, merged, edited, and published by the Getty; refreshed monthly
- **Open Data Commons Attribution License (ODC-By) v1.0**
- Allows sharing, creation, adaptation of data with attribution

- Data is made available in various ways, standards, conventions for markup and for linked structured data
  - Online searching, [https://www.getty.edu/research/tools/vocabularies/index.html](https://www.getty.edu/research/tools/vocabularies/index.html)
  - Web services APIs, relational tables, and XML format
  - Linked Open Data: structured and published to make it openly accessible and shareable on the Semantic Web: **JSON, RDF, N3/Turtle, N-Triples** formats
  - Future: **MARC** mapping and transform [?]
Meet the Getty Vocabulary Program

- PhD or MA in Art History, or MLIS with strong Art History
- All are recognized experts in vocabulary creation
- Cross-trained on all Getty Vocabularies

Contact us: vocab@getty.edu
What do we do?

- Getty Research Institute
- Vocabs grow through contributions: We train contributors, process incoming contributions, 1000s per year
- Is data compliant with standards, within scope, correct? Updates published regularly by Getty Digital
- Outreach, workshops, individual training
- Contact us: vocab@getty.edu

https://www.getty.edu/research/tools/vocabularies/

Meet the Getty Vocabulary Program
What Are Getty Vocabularies?

Catalog, index, document, retrieve, research, discover
Scope and Coverage: Getty Vocabularies

- **AAT**, *Art & Architecture Thesaurus*® includes generic terms in several languages, relationships, sources, and scope notes for agents, 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**, *Getty Thesaurus of Geographic Names*® includes names, relationships, and coordinates with special focus on historical information for current cities, historical nations, empires, archaeological sites, lost settlements, and physical features as necessary for cataloging art; not GIS but may include coreferences to GIS and maps (e.g., *Diospolis*, *Acalán*, *Ottoman Empire*, *Mogao*, *Ch'ien-fu-tung*, *Ganges River*, गंगा नदी)

- **ULAN**, *Union List of Artist Names*® includes names, relationships, notes, sources, and biographical information for artists, architects, firms, studios, repositories, patrons, and other individuals and corporate bodies, both named and anonymous; may include coreferences to other resources for same entity (e.g., *Mark Rothko*, *Cai Xiang*, 蔡襄, *Crevole Master*, *Riza Abbasi*, *Altobelli & Molins*, *Rajaraja Museum*)

- **IA**, *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; special focus on non-Western with coreferences to other resources including Iconclass for Western (e.g., *Viaggio dei Re Magi*, *Flood of Deucalion*, *French Revolution*, *Olouaipipilele*, *Xibalba*, निफ्लिंहम, शिव, Bouddha couché)

- **CONA**, *Cultural Objects Name Authority*® focuses on architecture, multiples, and works depicted in other works; includes titles, artist attribution, creation dates, relationships, and location for works whether extant or destroyed (new contribution: 70,000 works from BWR) (e.g., *Chayasomesvara Temple*, *Hagia Sofia*, Αγία Σοφία, *The Lacemaker*, *La Dentellière*, *Merlettaia*, *Lion Throne Room*, 神奈川沖浪, Great Wave, Die große Welle)
AAT, Art & Architecture Thesaurus® includes generic terms in several languages, relationships, sources, and scope notes for work types, roles, materials, styles, cultures, and techniques (477,898 terms) (e.g., amphora, literati (painters), oil paint, olieverf, peintures à l'huile, acetolysis, 玉器, Jadekünste, sintering, orthographic drawings, Olmeca, Rinascimento, Buddhism, emakimono, watercolors, asa-no-ha-toji)
Sample record (partial)

Terms (cont):
grabados al acero (es-N) [1000429838]  
Stahlstiche (de-N) [1000655952]  
Associative Relationships
produced by ... steel engraving (printing process) [300190536]  
distinguished from ... siderographs [300389774]  
Hierarchical Relationships (poly)
Objects Facet  
.. Visual and Verbal Communication (G)  
... Visual Works (hierarchy name) (G)  
...... visual works (works) (G)  
........ <visual works by material or technique> (G)  
........... prints (visual works) (G)  
............ <prints by process or technique> (G)  
............... <prints by process: transfer method> (G)  
................ intaglio prints (G)  
.................. engravings (prints) (G)  
.................... steel engravings (visual works) (G)  

Note: Prints made by the process of "steel engraving (printing process)," in which plates of steel or steel-faced copper are used, having replaced the use of less durable copper plates in the early 19th century...  
Contributors: VP,BHA,CHIN,AS,RKD,IfM-SMB-PK,CDPB-DIBAM  
TGN, Getty Thesaurus of Geographic Names® includes names, relationships, and coordinates, with special focus in development on historical information for current cities, historical nations, empires, archaeological sites, lost settlements, and physical features as necessary for cataloging art; not comprehensive and not GIS but may include coreferences to GIS and maps (5,316,468 names) (e.g., Diospolis, Acalán, Ottoman Empire, Axumite Empire, Mogao, Ch'ien-fu-tung, Leptis Magna, Machupicchu, Ganges River, गंगा नदी).
TGN, Getty Thesaurus of Geographic Names®
Sample record

**TGN ID:** 7011179

**Names:**
Siena (pref, it, en-P) [47413]

**Contrib.** [VP, BHA, Avery]

**Sources.** Annuario Generale 1980, UNESCO (1992); Williams (2010)*

Sienna [140808]
Sienne (fr-P) [1002860953]
Σιένα (el-P) [1002038443]
锡耶纳 (zh-P) [1002038446]
Σιένα (ru) [1002038445]
シエーナ (ja) [1002038441]
Sienese (adj) (en) [1159549]
Senae (hist.) [181416]

**Date:** Medieval

**Start:** 800 **End:** 1500

Sena Julia (hist.) (la) [181415]
Sen (hist.) [181414]

**Date:** Etruscan

**Start:** -800 **End:** 200

**Hierarchical Relationships (poly.)**

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

**Date:** settled by Etruscans (flourished 6th century BCE) **Start:** -800 **End:** 9999

- City
- Archiepiscopal see
- Commune (administrative)
  **Date:** since 1125 **Start:** 1125 **End:** 9999

- Cultural center
- University center
- World heritage site

**Place Types**

- Inhabited place

**Contributors:**
VP, BHA, Avery, GRI

**Sources:**
Annuario Generale (1980); NGA/NIMA database (2003-)
129709; Library of Congress Authorities in 79013822
UNESCO World Heritage Centre [online] (1992-);
VIAF: Virtual International Authority File [online] (2009-) VIAF ID: 239842096 (Geographic)
ULAN, Union List of Artist Names® includes names, relationships, notes, sources, and biographical information for artists, architects, firms, studios, repositories, patrons, other individuals and corporate bodies, both named and anonymous; may include coreferences to other resources (1,470,142 names) (e.g., Mark Rothko, Cai Xiang, 蔡襄, Crevoile Master, Riza Abbasi, Rajaraja Museum, I. M. Pei & Partners, Ahuitzotl, William Kentridge, Frida Kahlo)
**ULAN, Union List of Artist Names®**

**Sample record**

**ULAN ID:** 500060426

**Names:**
Katsushika Hokusai (en,ja-trans) [1500235399]

**Contrib.** [VP, CCA, Avery]

**Sources.** Bowie (1964), Grove (2022), Met (2003)*

Hokusai (en,ja-trans) [1500235408]

**Date:** name taken by the artist in 1798, and used for his prints and paintings
**Start:** 1798 **End:** 9999

葛飾 北斎 (ja) [1500705416]

Shunrō (en,ja-trans) **Date:** gō (artist's name), used in his years of training, when painting hosoban (narrow prints) [1500235400]

Sōri (en,ja-trans) **Date:** gō used in early career, named taken from his Rinpa-school master Tawaraya Sōri [1500235401]

Kakō (en,ja-trans) **Date:** used for the production of commercial prints and books [1500235402]

Tatsumasa (en,ja-trans) **Date:** used for the production of privately published illustrations [1500235403]

**Display bio:** (Japanese printmaker, painter, 1760-1849)

**Birth date:** 1760 **Death date:** 1849

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

**Nationalities:**
Japanese (pref)

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

**Gender:** male

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

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

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

**Sources:**
Bowie, Drawings of Hokusai (1964);
Grove Dictionary of Art online (1999-2002);
Library of Congress Authorities
Metropolitan Museum of Art [online] (2003-);
Bouquillard, Hokusai: First Manga Master (2007)
• **IA, 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; special focus on non-Western with coreferences to other resources (7,200 terms) (e.g., *Xibalba, Yemonja, शिव, Shiva, Bouddha couché, Flood of Deucalion, Viaggio dei Re Magi, French Revolution, Olouaipipilele, Niflheim, Mithras*)
IA ID 901000085

Names
Avalokiteśvara (pref-en) [5000191]

Qualifier: Buddhist bodhisattva
Date: name occurs in Sanskrit by 7th century
Start: 600 End: 9999 Contrib: VP,BHA,BWR-P
Sources: Bowker (1997); Dunhuang (2010)

Avalokitesvara [5001067]
Avalokitesvara [5003150]
अवलोकितेश्वर (sa) [5001068]
Spyan ras gzigs [5002308]

Vocab links
role/characteristic is ... Bodhisattva [AAT]
symbolic attribute is ... lotus [AAT]
culture/religion is ... Mahayana (Buddhism) [AAT]
culture/religion is ... Theravada (Buddhism) [AAT]

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

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

Display Date: veneration in India flourished ca. 3rd-7th centuries
Start: 200 End: 9999

Note The bodhisattva of infinite compassion and mercy; embodies the compassion of all Buddhas. Known in over 100 manifestations; is portrayed in different cultures as either female or male, as … …

Contributors VP,BHA,BWR
Sources Bowker, Oxford Dictionary of World Religions (1997); Huntington, Art of Ancient India (1985);
Encyclopedia Britannica Online (2022-);
LC: LC control no.: sh 85010492
• **CONA, Cultural Objects Name Authority®** titles, artist attribution, creation dates, relationships, and location for works; focuses on architecture, multiples, works depicted in other works, lost works, designed but not built (107,493 titles) (e.g., *Hagia Sophia, Αγία Σοφία, Adinatha Temple, Flatiron Building, The Lacemaker, Merlettaia, La Dentellièrê, Lion Throne Room, 神奈川沖浪, Great Wave, Die große Welle*)
CONA, Cultural Objects Name Authority®

Sample record

CONA ID: 700002923

Titles/Names:
Temple of Heaven (pref- en) [1000016889]
Display Date: renamed in the 16th century Start: 1521 End: 9999
Contrib: JPGM-P,BWR,BHA

Tian Tan (zh-tr) [1000016890]
T‘ien-t’an (zh-trl) [1000019041]
Tiantan [1000016892]
Temple du Ciel (fr) [1000019264]
Templo del Cielo (es) [1000019265]
Himmelstempel (de) [1000019266]

Catalog Level: item
Work Types: temple complex
Classification: Architecture
Creation Date: construction 1406-1420; extended 16th century Start: 1406 End: 1420
Qualifier: construction
Creator Display: first built by Ming Chengzu; extended by Ming Shizong; renovated by Qianlong

Locations:
current Beijing (Beijing Shi (municipality), China) nation
Address Note: +39.913889,+116.391667

Dimensions: [display] entire complex: 237 hectares
Mat & Tech: [display] wood and stone wood AAT 300011914 | stone AAT 300011176

Style: Chinese [AAT 300018322] | Taoist [AAT 300143666]

General Subject: architecture Type: isness
religion and mythology Extent: purpose

Specific Subjects:
Heaven [AAT 300185658] Extent: dedication
Chinese heaven [IA 901002236]

Note: Large religious complex in the old outer city comprises three buildings are built in a straight line

Contributors:
JPGM; VP; GRISC; BHA; BWR;
Sources: Built Works Registry BWR3792244; Library of Congress Authorities online (2002-)
Ref: 881

References:
UNIQUE IDS
LANGUAGES
PREFERENCES
DATES, HIST/CUR
RELS/LINKS--POLY
CREDIT/WARRANT
COREFERENCES

AAT
TGN
ULAN
CONA
CONA IA
Activities of Getty Vocabulary Program

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.
Activities of the Getty Vocabulary Program

• Processing contributions
• Quality and scope control
• Dissemination of Vocabs
• Integration of Vocabs
• Outreach
• Development of tools
• Training
• Publications
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 throughout the year.

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
- > 350 institutions, consortia, other expert groups, projects, scholars

### 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 Kulturbesit
- 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

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**National documentation agencies, proj.**

**Image collections, libraries**

**Art repositories**

**Publishers**

**Research Proj.**
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

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.
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

<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?

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

 Getty Vocabulary Program: What We Do
Resulting ULAN record is a merged, homogenous entity

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

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

Merged in one record
Attribution to contributor and source is maintained, but merged and unified, and various “preferred” data is flagged
Guardi, Francesco (Italian painter, 1712-1793)

Note: Venetian painter, during the first half of his life, he was famous for his depictions of Venice and its environs, often with a focus on decorations and church paintings; later became a vedutista (view painter) of Venetian urban life.

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]

- sibling of .... Guardi, Antonio
  (Italian painter, 1699-1760) [500025094]
- sibling of .... Guardi, Niccolò
  (Italian painter, 1715-1785) [500029088]
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

Conrib fills in Click-Through LOA

FMP Contrib File

VCS: Contrib File

Online forms for AAT or ULUSA

Write editors' guidelines and training

Conduct training; publicize guidelines or books

Online Editorial Guidelines / Training

Fix bugs, resolve issues

Monitor statistical reports

Maintain site for XML Res

Online search data

Discovery, track, document issues...
Systems / Procedures diagram: Getty Vocabularies
Systems / Procedures diagram: Getty Vocabularies

Loading / Processing

- Reconciliation
- Transformation
- Loader
- Contributions harvested from online form & loaded
- Contributions loaded from bulk XML, spread
- Contributions prioritized & distributed to editors
- Tasks outlined, based on analysis
- Ask for global edit or report to assist if needed
- Editors do tasks (edit, move, merge, etc.)
- Move to Non-Candidate if ready for publication
- Spreadsheets and folders
- JIRA: reports / global edit requests
- VCS Test Load system
Systems / Procedures diagram: Getty Vocabularies
Systems / Procedures diagram: Getty Vocabularies
Thank you.

Patricia Harpring
Managing Editor
Getty Vocabulary Program

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