Linking the Getty Vocabularies:

The Content Perspective, Including an Update on CONA

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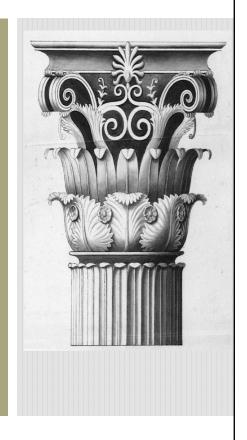


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- For information about the Getty vocabularies, see this site
- Search the data, access data releases, contribute, editorial guidelines, training materials (ITWG too), news
- Contact us: vocab@getty.edu

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

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- **▼**Getty Vocabularies
- Art & Architecture Thesaurus (AAT) ®
- ▶ Cultural Objects Name Authority (CONA) ®
- ▶ Getty Thesaurus of Geographic Names (TGN) ®
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Getty Vocabularies

The Getty vocabularies are now available as Linked Open Data. Learn more.

What is cinnabar? What is a rhyton? The Getty vocabularies contain structured terminology for art, architecture, decorative arts, archival materials, visual surrogates, conservation, and bibliographic materials. Compliant with international standards, they provide authoritative information for catalogers, researchers, and data providers. The vocabularies grow through contributions. In the new linked, open environments, they provide a powerful conduit for research and discovery for digital art history. To search the vocabularies, click on the links below.



The Art & Architecture Thesaurus (AAT)®

Catherine wheel or rose window? AAT is a structured vocabulary, including terms, descriptions, and other metadata for generic concepts related to art, architecture, conservation, archaeology, and other cultural heritage. Included are work types, styles, materials, techniques, and others.



The Cultural Objects **Name Authority** (CONA)®

Mona Lisa or La Gioconda? CONA compiles titles, attributions, depicted subjects, and other metadata about works of art,



The Getty Thesaurus of Geographic Names (TGN)®

Thebes or Diospolis? TGN is a structured vocabulary, including names, descriptions, and other metadata for extant and historical cities, empires, archaeological sites, and physical features important to research of art and architecture. TGN may be linked to GIS, maps. and other geographic resources.



The Union List of Artist Names (ULAN)®

Titian or Tiziano Vecellio? ULAN is a structured vocabulary, including names, biographies, Images may be under additional copyright

See What's New

Multilingual & multi-cultural AAT: Conservation terms; Dutch: 60,600; Spanish: 55,000; Chinese: 26,000; German: 20,500

Have a Question?

Program

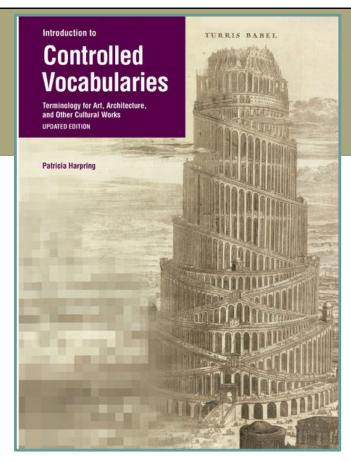
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Introduction to Controlled Vocabularies

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.



www.getty.edu/research/publications/electronic_publications/intro_controlled_vocab/

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The Way We Were
Where We Are Now

Introduction

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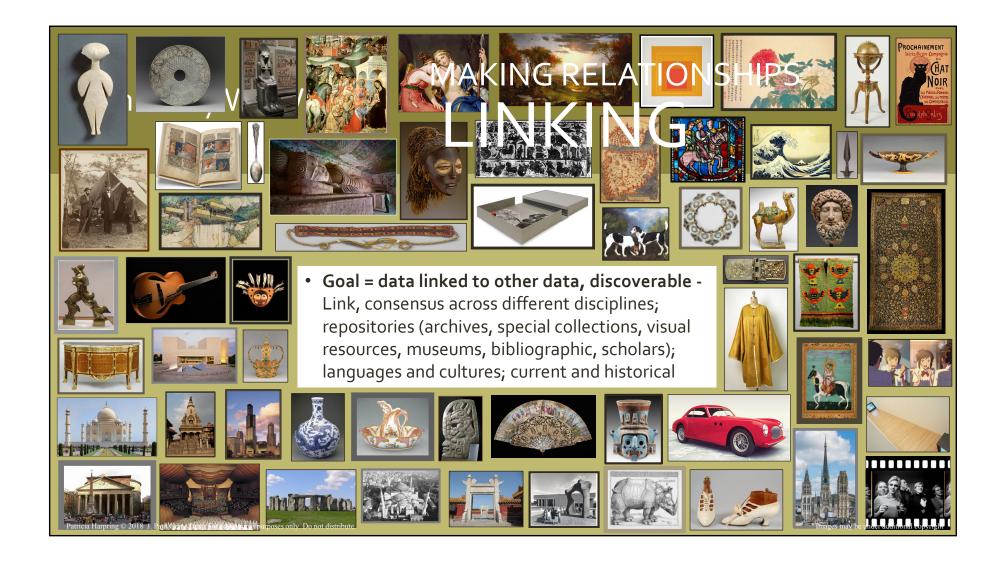
The Way We Were

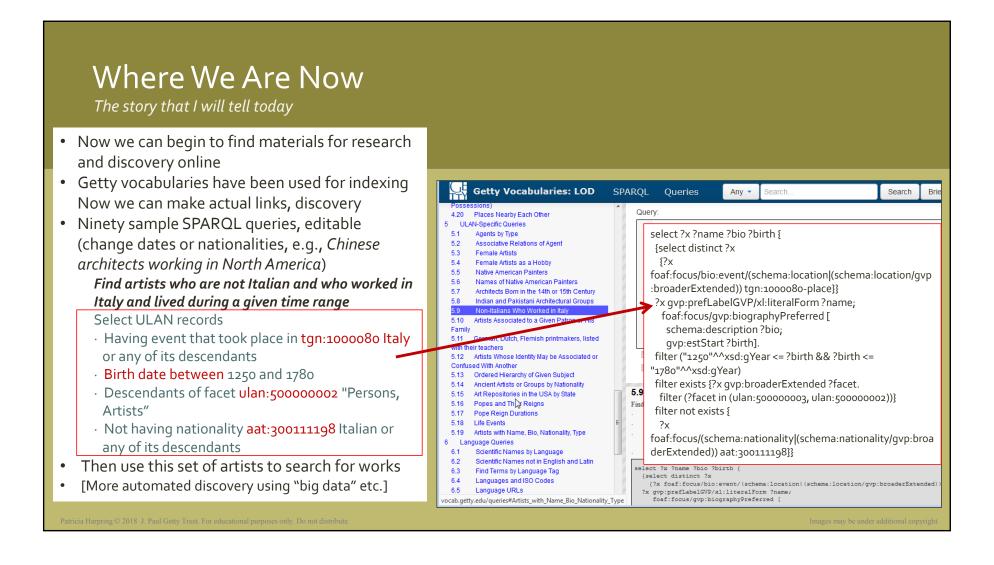
Researching art, architecture, cultural heritage

- How did art historians do research in the past?
- By hand, physical resources and card catalogs, bibliographic indexes such as BHA
- Printing, photocopying, taking photos of materials, note taking
- Traveling around the world, many months to find all data
- Needed better methods and tools for research and discovery
- Solutions would also address needs of repositories, other cataloging institutions with mission to disseminate their data
- The Getty vocabularies, CDWA, etc. were developed to allow consistency in cataloging and improvement of retrieval

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Where We Are Now

The story that I will tell today



- This paper = from the content-creation point of view of the Getty Vocabulary Program
- Getty vocabularies represent over 35 years of continuing international collaborative scholarship
- Relationships and linking are built into and among the Getty vocabularies
- When LOD was under development, we adjusted data accuracy and integrity, editorial rules to meet the new requirements
- Looking to new ways to utilize the vocabularies for research and discovery

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Scope of Each Getty Vocabulary

User Statistics

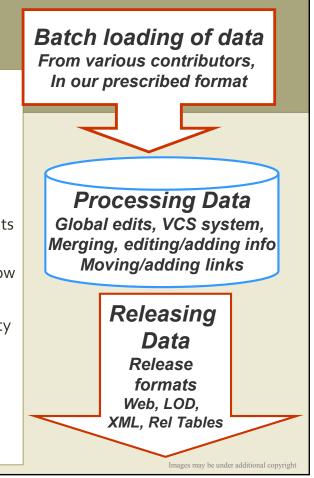
Context of the Getty Vocabularies

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Context of the Getty vocabularies

- Getty vocabularies are structured vocabularies that comply with national and international standards for thesaurus construction (NISO and ISO)
- Getty vocabularies grow through contributions from the user community
- Compiled and disseminated by the Getty Vocabulary Program at the Getty Research Institute and Getty Digital
- Released in online search (refreshed every month), XML, Relational Tables, Web Services, JSON, RDF, N₃/Turtle, N-Triples; analysis going on now for other formats
- Linked Open Data allows the vocabularies to be released in formats that are designed for powerful linking to various data sets, and with open licensing to allow freer use without restrictions
- Target audience: The primary user communities and target audience of the Getty vocabularies include researchers in art and architectural history, art libraries, archives, visual resource collections, museums, special collections, other repositories of cultural heritage information, conservation specialists, archaeological projects, bibliographic indexing projects, and the information specialists who attend to the needs of these users

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Context of the Getty vocabularies

• Please see the full list of contributors to the Getty vocabularies here: www.qetty.edu/research/tools/vocabularies/contributors.html

 $\hbox{A }\hbox{B }\hbox{C }\hbox{D }\hbox{E }\hbox{F }\hbox{G }\hbox{H }\hbox{I }\hbox{J }\hbox{K }\hbox{L }\hbox{M }\hbox{N }\hbox{O }\hbox{P }\hbox{Q }\hbox{R }\hbox{S }\hbox{T }\hbox{U }\hbox{V }\hbox{W }\hbox{X }\hbox{Y }\hbox{Z }$

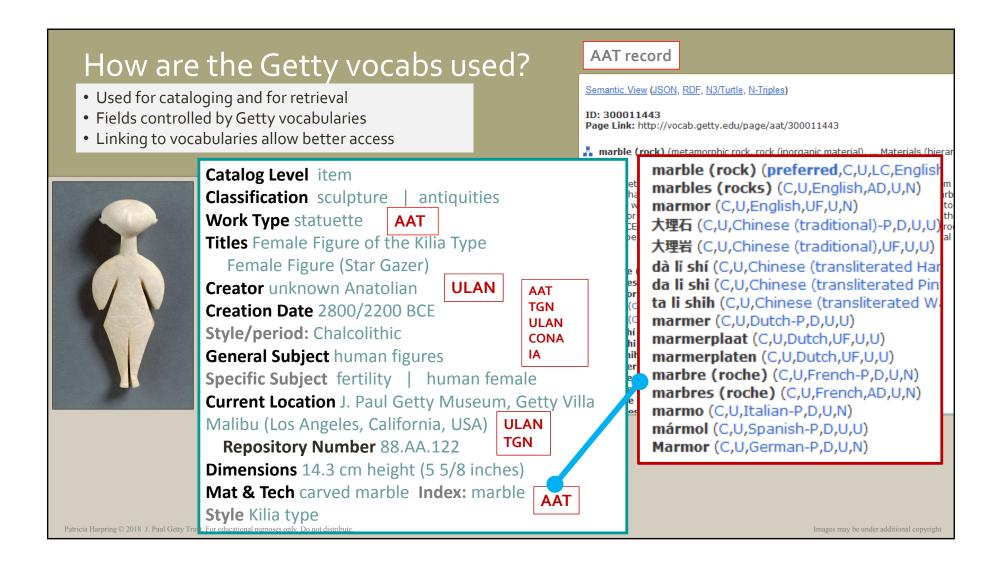
Brief Name	Full Name				
A					
AS-Academia Sinica	Academia Sinica (Academia Sinica; Nankang, Taiwan)				
AAM	Ackland Art Museum (Chapel Hill, North Carolina)				
AKAG	Albright-Knox Art Gallery (Buffalo, New York)				
AC	Allegheny College (Allegheny, Pennsylvania)				

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User statistics for Getty vocabularies

- Getty vocabularies are valued as authorities because their quality is reliable and the data is linkable
- To ensure good quality, the Getty vocabularies are compiled by experts and sources are cited
- Use of the Getty vocabularies is very high for the domain
- Every year, the Getty vocabularies are used by thousands of individuals and institutions to index published or local materials about art and to provide access
- Online search page, there are on average around 100,000 searches per month, making the Getty vocabularies among the top resources accessed at the Getty Research Institute (GRI)
- Implemented in many collection management systems and Web sites around the world
- Linked Open Data (LOD) releases typical month in 2018 over 1,000,000 records (92.95 GB of data)
 were accessed and downloaded from the LOD site

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

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 (e.g., orthographic drawings, amphora, oil paint, olieverf, peintures à l'huile, acetolysis, sintering, 玉器, Jadekünste, Olmeca, Rinascimento, Chen-Yen (Buddhism), watercolors, and asa-no-ha-toji)



• TGN: Getty Thesaurus of Geographic Names ®

Focuses on 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. Thesaurus, through LOD TGN may be linked to GIS and maps (e.g., Diospolis, Acalán, Ottoman Empire, Mogao, Ch'ien-fu-tung, Ganges River, and गंगा नदी)



• 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 (e.g., Charles Vandenhove et associés, Mark Rothko, Cai Xiang, 葵襄, Crevole Master, and Rajaraja Museum)

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

Scope of each Getty vocabulary



IA: Getty Iconography Authority

IA is a new resource that focuses on subjects and topics relevant to art, architecture, and related disciplines. IA 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 (e.g., French Revolution, Adoration of the Magi, Flood of Deucalion, Xibalba, Niflheim, মিল (Hindu deity), Shiva, and Bouddha couché)



CONA: Cultural Objects Name Authority ® CONA is a new resource that compiles titles/names, as well as creator attribution, patron, materials, dates, and location for works of art, architecture, and other cultural works, current and historical, documented as items or in groups, whether works are extant, destroyed, or

and historical, documented as items or in groups, whether works are extant, destroyed, or never built, with data compiled from documentation projects, repositories, and scholars. CONA could be of critical importance to those cataloging visual surrogates and other images, to researchers, and to many other users (e.g., Chayasomesvara Temple, Mona Lisa, Livre de la Chasse, Hagia Sofia, $Ayi\alpha \Sigma o \phi i\alpha$, and Le déjeuner sur l'herbe)

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AAT, the Art & Architecture Thesaurus®

Sample record

Partial record



preferred is flagged, but not required to use it; based on local rules AAT_ID: 300011329

bas-reliefs (pref, en, fr)

bas-relief (en, fr)

Terms:

low reliefs (en)
bas-reliëfs (nl)
travertino (es)
bassorilievo (it)
bajos relieves (es)
travertin (fr)
Flachreliefs (de)
淺浮雕 (雕塑)(zh; Chinese
traditional)
qiǎn fú diāo (Chinese
(transliterated Hanyu Pinyin))
qian fu diao (Chinese
(transliterated Pinyin without
tones))
ch'ien fu tiao (Chinese

(transliterated Wade-Giles)

Associative Relationships

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

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

Hierarchical Relationships (poly)

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)

Scope Notes:

- Refers to works executed in relatively shallow relief. (en)
- Beeldhouwwerken uitgevoerd in relatief laag reliëf. (nl)
- Úsese para obras ejecutadas en relieve relativamente superficial. (es)
- 指浮雕圖案較淺的作品。(zh)
- Bezeichnet eine Arbeit, die in relativ flachem Relief ausgeführt ist. (de)

Contributors: AS-Academia Sinica, CDBP-DIBAM, GCI, ICCD, IfM-SMB-PK, RKD, AAT-Ned, VP Sources: AATA database (2002-) 120890; Avery Index (1963-); Grove Art Online; Oxford English Dictionary; Lucie-Smith, Thames & Hudson Dictionary of Art Terms (2006); Ching, Diccionario Visual de Arquitectura (1997); Preble and Preble, Artforms (1989); RIBA, Architectural Keywords (1982); Van Dale groot woordenboek (1994); IfM Berlin; TAA database (2000-); AAT-Ned (1994-)

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ULAN, the Union List of Artist Names®

Sample record

Partial record



ID: 500014514

Names:

Gaudí, Antoni 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, Antoni Gaudi, Antonio גאודי, אנטוני

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)

TGN

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,GRLPSC,BHA,CCA

Sources: Avery Authority files (1963-); Avery Index to Architectural Periodicals (1963-); Grove Art artist database (1989-); Grove Dictionary of Art online (1999-2002) accessed 13 August 2003; Harald Szeemann papers, Finding Aid, GRI Special Collections (2011-); Library of Congress Authorities database (n.d.) n 79079077



TGN, the Getty Thesaurus of Geographic Names®

Sample record

Partial record

AAT

/D: 7011179

Names:

Siena (it,en,es,fr,nl,de) Σιένα (el) Siyenah 锡耶纳 (zh)

シエーナ (ja)

Saena (h)

Sienese (en-adj) Sienna (h-en) Sena Julia (h-la) Sanna (h)

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Hierarchical Rels. (polyhierarchical)

World (facet)

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

World (facet)

- .. Europe (continent)
- ... Italian Peninsula (peninsula)
- Etruria (former confederation) Siena (inhabited place)
 - Historical: Late Etruscan

Associative Rels

ally of Pisa ..(inhabited place) [7006082] Ghibelline allies, 13th-14th centuries

Place Types

inhabited place settled by Etruscans (flourished by 6th century BCE)

citv

archiepiscopal see

commune (administrative) since 1125

cultural center university center world heritage site

Lat: 43 19 07 N (43.3180) Long: 011 19 50 E (11.3300)

Elevation: 1056.430 feet (322.0000 meters)

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

Contributors: BHA, FDA, GRLPSC, VP

Sources: Annuario Generale (1980); Canby, Historic Places (2007) 2/861; Dizionario Corografico Toscana (1977) 1508; Library of Congress Subject Headings (2002-); Milanesi, Storia dell'Arte Senese (1969) passim; NGA/NIMA database (2003-) -129709; TCI: Toscana (1984) 479 ff; Times Atlas of the World (1992) 183; UNESCO World Heritage Centre [online] (1992-) accessed 20 July ui2010: Webster's Geographical Dictionary (2007) 1114



IA, Getty Iconography Authority

Sample record

Partial record

AAT

TGN

ULAN

CONA

ID: 1000085

Names:

Avalokiteshvara Avalokitesvara अवलोकितेश्वर

ञ्चेष.रश.वाञ्चवादा.

Spyan ras gzigs

AAT links

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

Associative Relationships

associated with Krishna (Hindu iconography) counterpart is Guanyin (Buddhist iconography)

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

Hierarchical Relationships

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

Contributors & sources

[VP] Encyclopedia Britannica Online (2002-); Bowker, Oxford Dictionary of World Religions (1997); Huntington, Art of Ancient India (1985); *LC: LC control no.: sh*

85010492

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CONA, Cultural Objects Name Authority®





CONA ID: 700001950

Titles:

Shiva (nl; en)

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

Catalog Level: item

Work Types:

sculpture (visual work)

Classifications:

sculpture (preferred)

Creation Date: 1000/1200

Creator Display:

anoniem

sculptor: unknown Chola
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ULAN

AAT

Sample record: Movable work

ULAN Locations:

TGN

Partial record

Current: Rijksmuseum (Amsterdam, North Holland,

Netherlands) AK-MAK-1291; RM001.collect.910; Bruikleen van de Vereniging van Vrienden der Aziatische Kunst

Creation: Tamil Nādu (India)

Mat & Tech: bronze founding

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

Events: exhibition: Metamorfoze/Geheugenproject Willem

Witsen **AAT**

Cultures:

AAT Indian Chola

General Subject:

human figures (preferred) religion and mythology

Specific Subjects:

Shivá (Hindu iconography)

mudrā (pose, <visual and representational concepts>)

[link to Iconclass]

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

AAT

TGN

ULAN

CONA

IA



CONA, Cultural Objects Name Authority®

Sample record: Built work

Partial record

TGN

ULAN

CONA ID 700000141 Titles/Names:

Hagia Sophia (en,de,nl) Ayasofya (tr) Αγία Σοφία (el) Agia Sofia Haghia Sophia Sainte-Sophie (fr) Santa Sofía (es) Santa Sofia (it) Sancta Sophia (la) Sancta Sapientia (la) Holy Wisdom (en) Saint Sophia (en) 聖蘇菲亞大教堂 (zh)

Work Types: church; mosque; museum **AAT**

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

Creators: Anthemios of Tralles (Byzantine architect, ca. 474-ca. 534) and Isidoros of Meletus, the Elder (Byzantine architect, active mid-6th century);

Patron: Justinian I (Byzantine emperor, ca. 482-565)

Built Work ... Hagia Sophia Associative Relationship depicted in View of the Hagia Sophia in Constantinople; Eduard Hildebrandt; watercolor; ca. 1852; Hermitage Museum (Saint Petersburg, Russia) [700008345]

Location: İstanbul (Marmara, Turkey) Address Note: 41.008548°N; 28.979938°E

Materials: system bearing masonry, AAT centralized plan; interior surfaces are sheathed with polychrome marble, porphyry, and mosaics

Dimensions: central dome: diameter 31 m (102 feet); height 56 m (184 feet)

General Subject: architecture Specific Subject: Holy Wisdom Religion/Mythology)

CONA Note: Domed basilica was cor IA by the Emperor Justinian; built in Constantinople in 6th century...

Contributors: Avery, BHA, FDA, VP Sources: Fleming, Penguin Dictionary of Architecture (1999); Herrin, Judith, Byzantium (2007); Maidstone, Hagia Sophia (2002); Theoharidou, Architecture of Hagia Sophia (1988); Xydis, Chancel Barrier of Hagia Sophia (1947)

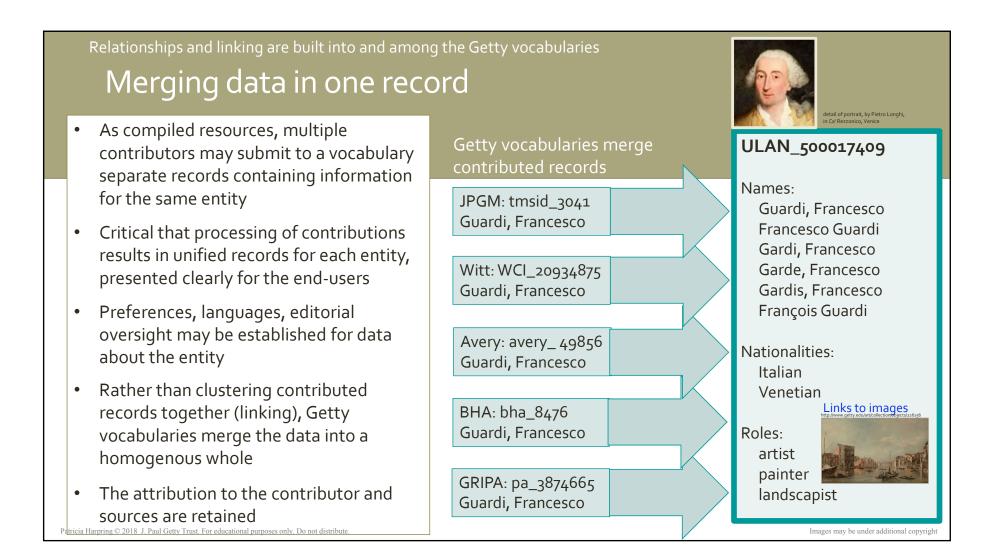
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Coordinating Contributed Records

•Linking or Merging?

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Merging data in one record

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

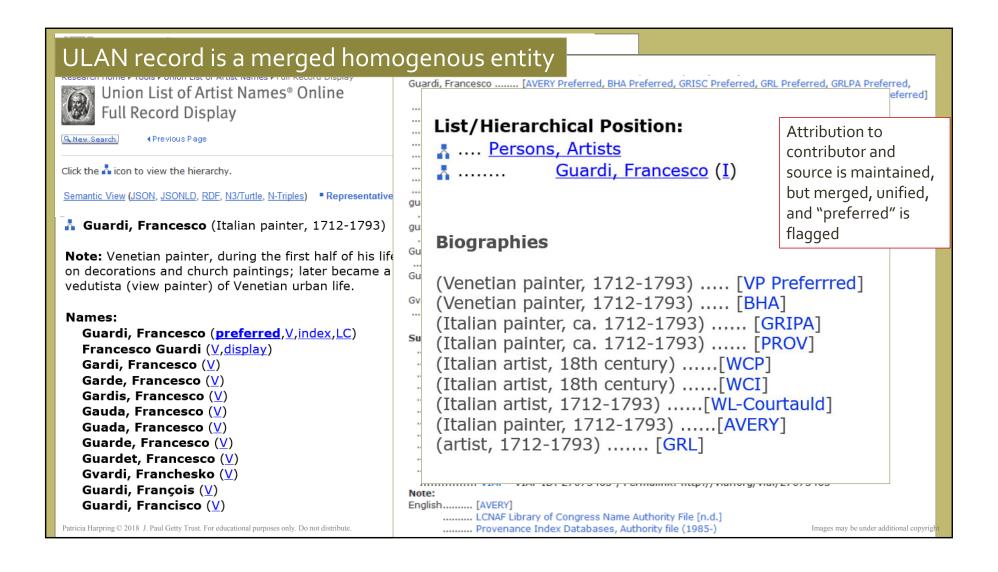
A name matches exactly; role matches; a nationality matches; dates within range?

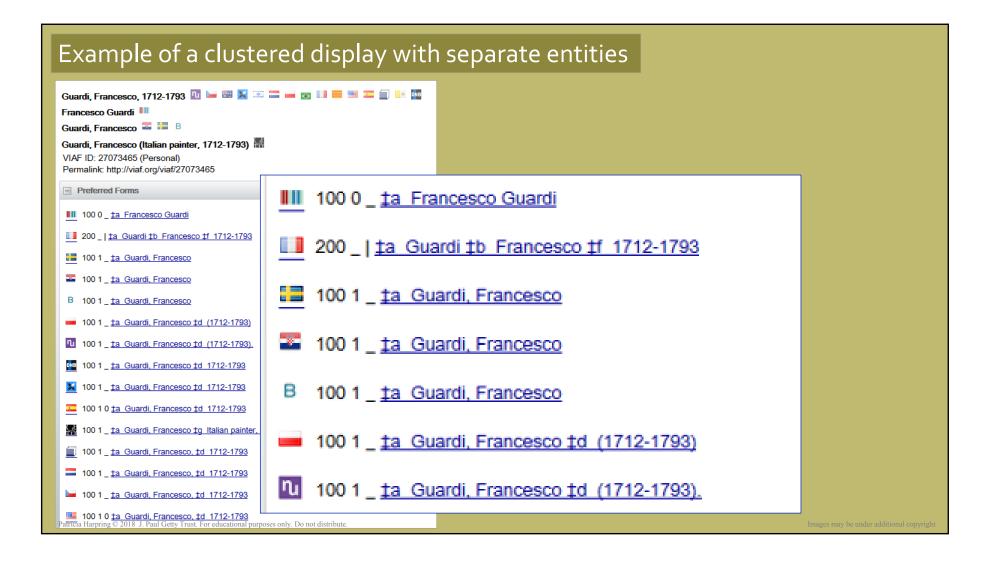
 Example of ULAN records that are candidates for merging

- If there are enough matching data, the records may be automatically merged or rejected for merging
- If the match is deemed possible but not enough firm data are available, the records are passed to human editors for processing and approval
- Long experience and algorithms → Reconciliation API is under development

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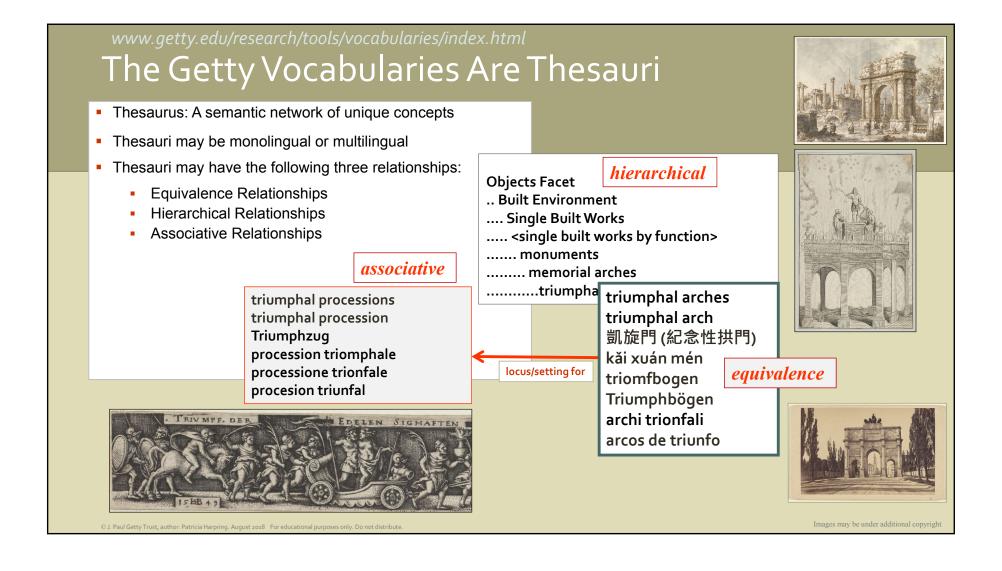


Equivalence Relationships

Hierarchical Relationships

Associative Relationships Thesaural Relationships

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Sample AAT record display (partial data)

AAT ID: 300132869

Terms:

- triumphal arches [1000007003] Qual: (memorial arches)
 Pref: pref Type: D Lang: (en) Con.: FDA, GCI, VP
- triumphal arch [1000290974] Qual: (memorial arch)
 Type: ALT Lang: (en) Con.: FDA, VP
- ·凱旋門 Qual: (紀念性拱門) [1000545314]
 Type: D Lang: (zh, Chinese (traditional)) Con.: AS
- **kǎi xuán mén** [1000545316] Lang: (zh, Chinese (transliterated Hanyu Pinyin)) Con.: AS
- kai xuan men [1000545315] Lang: (zh, Chinese (transliterated Pinyin without tones)) Con.: AS
- · k'ai hsüan men [1000545317]
 - Lang: (zh, Chinese (transliterated Wade-Giles)) Con.: AS
- · triomfbogen [1000467730] Type: D Lang: (nl) Con.: RKD, AAT-Ned
- triomfboog [1000467731] Lang: (nl) Con.: RKD, AAT-Ned
- Triumphbögen[1000603579] Qual: (Ehrenbögen)
 Type: D Lang: (de) Con.: IfM-SMB-PK
- Triumphbogen [1000603580] Qual: (Ehrenbögen)
 Lang: (de) Con.: IfM-SMB-PK
- archi trionfali [1000131380]
- Type: D Lang: (it) Con.: ICCD
- arcos de triunfo [1000415271]
 Type: D Lang: (es) Con.: CDBP-DIBAM
- arco de triunfo [1000415272] Lang: (es) Con.: CDBP-DIBAM
- arcs de triomphe [1000777382] Type: D Lang: (fr) Con.: AAT-AD
- arc de triomphe [1000777381] Lang: (fr) Con.: AAT-AD

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Associative Relationships

Type: locus/setting for
triumphal processions [300379150]

Hierarchical Relationships (polyhierarchical)

Objects Facet

- .. Built Environment (hierarchy name) (G)
- Single Built Works (hierarchy name) (G) single built works (built environment) (G)
- <single built works by specific type> (G)
- $\ldots \ldots < \!\! \mathsf{single}$ built works by function> (G)
- monuments (G)
-<monuments by form> (G)
- memorial arches (G)
- triumphal arches (memorial arches) (G)

Contributors: CDBP-DIBAM, FDA, GCI, IfM-SMB-PK, TELDAP, RKD AAT-Ned, VP, AAT-AD

Sources: AATA database (2002-) 129984; Avery Index (1963-); Library of Congress Authorities online (2002-) sh 85006535; Brilliant, Roman Art (1974) index; RIBA, Architectural Keywords (1982); Van Dale groot woordenboek (1994); Duden [online] (2011-); dtv-Atlas Baukunst (1982) 211; GND - Gemeinsame Normdatei http://d-nb.info/gnd/4186247-8; IfM Berlin; Van Dale groot woordenboek (1994); TELDAP database (2009-); Sear, Roman Architecture (1983); RCHME, Revised Thesaurus of Architectural Terms (1989); Harris, Illustrated Dictionary of Historic Architecture (2013); 世界建築經典圖鑑 338; 智慧藏百科全書網 May 2, 2012 [etc.]

Scope Note:

Monumental structures containing at least one arched passageway and erected to honor an important person or to commemorate a significant event. The basic form consisted of two piers connected by an arch ... Lang: (en) Contrib: GCI; VP Source: RCHME, Revised Thesaurus of Architectural Terms (1989); Sear, Roman Architecture (1983); Encyclopedia Britannica Online (2002-) accessed 30 April 2017

具有一個以上拱形通道的紀念性建築物用於向偉人致敬或紀念重大事件 · ... Lang: (zh,Chinese (traditional) Contrib: AS Source: TELDAP database (2009-)

Oorspronkelijk in de Romeinse tijd vrijstaande poorten of bogen... Lang: (nl) Contrib: RKD, AAT-Ned Source: Van Dale groot woordenboek (1994); AAT-Ned (1994-)

Monumentalbau, der mindestens einen bogenförmigen Durchgang... Lang: (de) Contrib: IfM-SMB-PK Source: IfM Berlin

Equivalence Relationship

- The Equivalence Relationship refers to the links between terms in the same record
- The Getty vocabularies strive for true synonymy, which is the characteristic of terms or names having meanings that are identical or as nearly identical as is possible
- Enforcing true synonymy increases precision in indexing and retrieval
- Terms or names that refer to a similar or related concept are recorded in separate records, and linked through associative or hierarchical relationships
- In the AAT example for triumphal arches, the related concept memorial arches is recorded in a broader context record, linked to the record for *triumphal* arches rather than being included in the same record

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AAT ID: 300132869 Terms: • triumphal arches [1000007003] Qual: (memorial arches)

Pref: pref Type: D Lang: (en) Con.: FDA, GCI, VP

• triumphal arch [1000290974] Qual: (memorial arch) Type: ALT Lang: (en) Con.: FDA, VP

·**凱旋門 Qual:** (紀念性拱門) [1000545314] Type: D Lang: (zh, Chinese (traditional)) Con.: AS

- kǎi xuán mén [1000545316] Lang: (zh, Chinese (transliterated Hanyu Pinyin)) Con.: AS

- kai xuan men [1000545315] Lang: (zh, Chinese (transliterated Pinyin without tones)) Con.: AS

· k'ai hsüan men [1000545317]

Lang: (zh, Chinese (transliterated Wade-Giles)) Con.: AS

• triomfbogen [1000467730] Type: D Lang: (nl) Con.: RKD, AAT-Ned

• triomfboog [1000467731] Lang: (nl) Con.: RKD, AAT-Ned

- Triumphbögen[1000603579] Qual: (Ehrenbögen)

Type: D Lang: (de) Con.: IfM-SMB-PK

- Triumphbogen [1000603580] Qual: (Ehrenbögen)

Lang: (de) Con.: IfM-SMB-PK

archi trionfali [1000131380]

Type: D Lang: (it) Con.: ICCD

- arcos de triunfo [1000415271]

Type: D Lang: (es) Con.: CDBP-DIBAM

- arco de triunfo [1000415272] Lang: (es) Con.: CDBP-DIBAM

- arcs de triomphe [1000777382] Type: D Lang: (fr) Con.: AAT-AD

- arc de triomphe [1000777381] Lang: (fr) Con.: AAT-AD

Equivalence Relationship

Information associated with the terms

AAT_ID and Term IDs
Term
Term type (D,ALT, UF)
Qualifier
Language
Contributor
Sources
Term preferences: for record,

AAT_ID: 300132869

Terms:

- triumphal arches [1000007003] Qual: (memorial arches)
 - Pref: pref Type: D Lang: (en) Con.: FDA, GCI, VP
- triumphal arch [1000290974] Qual: (memorial arch)

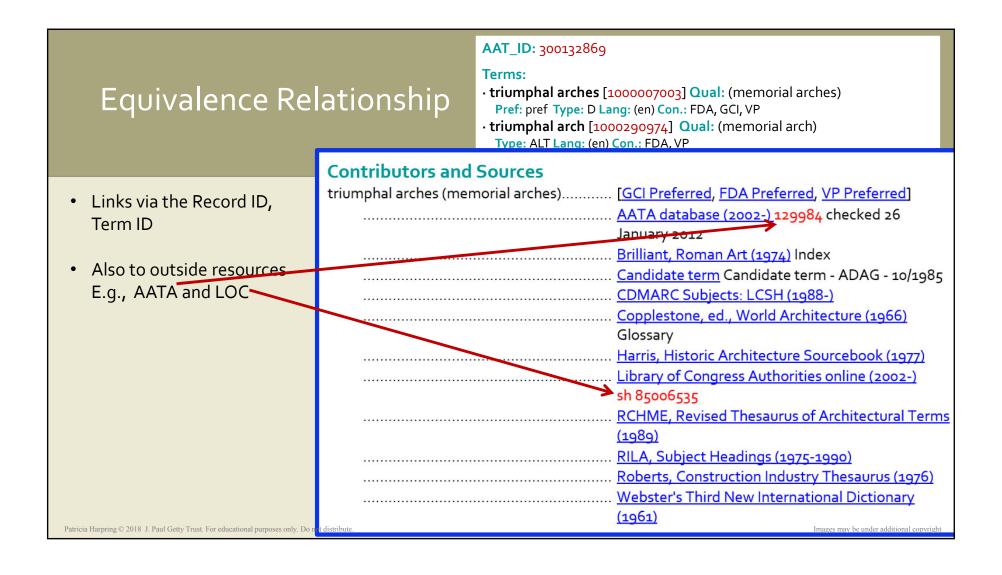
Type: ALT Lang: (en) Con.: FDA, VP

·凱旋門 Qual: (紀念性拱門) [1000545314]

Type: D Lang: (zh, Chinese (traditional)) Con.: AS

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contributor, language, source



Patricia Harpring Linking Getty Vocabularies PNC18

23 October 2018

Equivalence Relationship

- In order to retain true synonymy

 Homographs are recorded in separate records
- Distinguished by Qualifiers in displays
- chancel arches (<arches by location or context>, arches, ... Components (hierarchy name)) [300001093]

arches, triumphal (church components)
triumphal arches (church components)

triumphal arches (memorial arches)
(memorial arches, <monuments by form>, ... Built Environment (hierarchy name)) [300007003]
arches, triumphal (memorial arches)

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Equivalence Relationship

- Authoritativeness of the Getty vocabularies is warranted by their accuracy and basis in scholarship: Rembrandt van Rijn
- Preferred = most commonly used names in published, scholarly or expert resources
- common names, historical names, nicknames commonly published misspellings, signatures, etc. are welcome variants
- Usually avoid misspellings or archival variants that are used in only one source and not relevant to searching outside the one resource
- In order to make them relevant and up-to-date in Linked Open Data, we experimented with the Local Use flag, newly employed in ULAN for contributions from the Getty's Provenance Index
- But not a scalable solution; better to retain a local authority and contribute to ULAN the names useful to a broader community

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Rheinbrand (LU,U) Rhembrant (LU,U) Rhembrant van Rhyn (LU,U) Rhembrant Van-Rhyn (LU,U) Rhynbrandt (LU,U) Rienbraut (LU,U) Rimbrans (LU,U) LU = Local Use Rimbrant (LU,U) Rimbrant Van-Rhein (LU,U) Rinbrant (LU,U) Rinbraut (LU,U) Rinebrand (LU,U) Riombrach (LU,U) Rinbraut (LU,U) Rinebrand (LU,U) For some ULAN Riombrach (LU,U) records, there R. Rhyn (LU,U) are hundreds of R. van Ryn (LU,U) variants, many Rymbrand (LU,U) found in only Rymbrandt (LU,U) one original Rymbrand Van Ryn (LU,U) Rymbrant (LU,U) inventory Rymbrants (LU,U) Rymbrants Van Ryn (LU,U) Positioned at Rynbrandt (LU,U) the bottom of Rynbrand van Ryn (LU,U) displays and Van Rhyn Rembrant (LU,U) Van-Ryn, dit Rembrandt (LU,U) implementers Van-Ryn Rembrandt (LU,U) are advised to Van-Ryn Rembrant Fiammingo (LU,U) ignore them

V. Rembrants (LU,U)

Wan Rhin, o Rembrandt (LU,U)

Hierarchical Relationship

- Hierarchical relationships are the broader and narrower (parent/child) relationships between two entities in a thesaurus
- genus/species = AAT triumphal arches is a type of memorial arches, under monuments, up the hierarchical tree to the Objects Facet
- whole/part = TGN Machupicchu is part of Cuzco (region), which is part of Peru
- instance relationship = IA Penance of Indra is an instance of <Hindu narratives>

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Hierarchical Relationships (polyhierarchical)

Objects Facet

- .. Built Environment (hierarchy name) (G)
- Single Built Works (hierarchy name) (G)
- single built works (built environment) (G)
- <single built works by specific type> (G)
- <single built works by function> (G)
- monuments (G)
- <monuments by form> (G)
- memorial arches (G)
- triumphal arches (memorial arches) (G)



Hierarchical Relationship

- Links are maintained through preferred parents and also through nonpreferred parents
- •E.g., linking triumphal arches to p'ai-lous as siblings under ceremonial gates, as well as memorial arches



In Hanzhong, Shaanxi Province, China



In Munich, Germany

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Hierarchical Relationships (polyhierarchical)

Objects Facet

Built Environment (hierarchy name)

Single Built Works (hierarchy name)

single built works (built environment)

<single built works by specific type>

<single built works by function>

gate structures

ceremonial gates

hongsalmuns

p'ai-lous

propylaea

toranas

torii

triumphal arches (memorial arches) [N]

Hierarchical Relationship

- How to allow publication of data not fully resolved, due to incomplete information or state of scholarship?
- Hierarchical levels are also used to separate records for entities that are not fully identified
- Specific applicable level is not known = placed under broader context, lost & found
- E.g., Abaskūn, a trading port city on the Caspian Sea, known from 9th-century literary sources and believed to have been located somewhere in the area occupied by modernday Iran, but scholars are not certain of exact location and which province

```
.... World (facet)
..... Asia (continent)
..... Iran (nation)
..... <lost & found/Iran> (miscellaneous)
..... Abaskūn (lost settlement)
```



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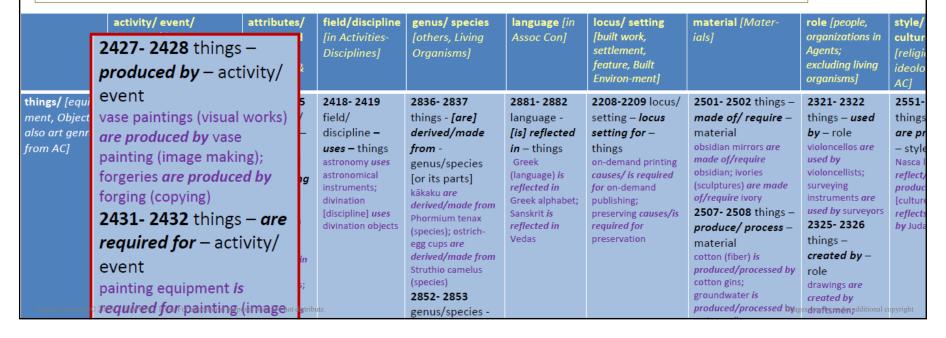
Hierarchical Relationship

- Unidentified named ... levels are used in ULAN and CONA for entities that are not yet identified in full
- Example, in ULAN, people and firms contributed by Provenance Index, Witt, Getty Special Collections finding aids, etc.
- Some or many may be resolved and fully identified with research, expert crowd sourcing in future

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Associative Relationship

- Relationships between records that are closely related conceptually, but the relationship is not hierarchical because it is not whole/part, genus/species, or instance (RT for related term)
- In the Getty vocabularies, the relationship type is defined



Associative Relationship

E.g., AAT, reciprocal relationships
 2427 things – produced by – activity/event
 2428 activity/event – produces – things

AAT 300007868 suspension bridges

2427 [are] produced by

AAT 300418008 suspension construction (technique)

 In preparation for LOD releases, relationships that had been maintained by hand had to be corrected if logic was off or wrong relationship types were used



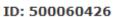
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Associative Relationship

E.g., ULAN,
 1101 person – teacher of – person
 1102 person – student of – person

Japanese printmaker Katsushika Hokusai [was] teacher of Katsushika Taito II

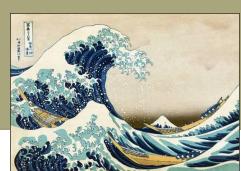
• As with other relationships in vocabulary records, the relationship may be circumscribed with dates



Page Link: http://vocab.getty.edu/page/ulan/500060426

👗 Katsushika Hokusai (Japanese printmaker and painter, 1760-1849)

Relationship Type	Record Type	Name	Display Date	Start	End
1101 - teacher of	Person	Taito, Katsushika, II	ca. 1820-before 1830	1819	1830
1102 - student of	Person	Shunshō, Katsukawa	ca. 1778-1793	1777	1793
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The Getty vocabularies are linked to each other

Links betweenVocabularies

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Links between vocabularies

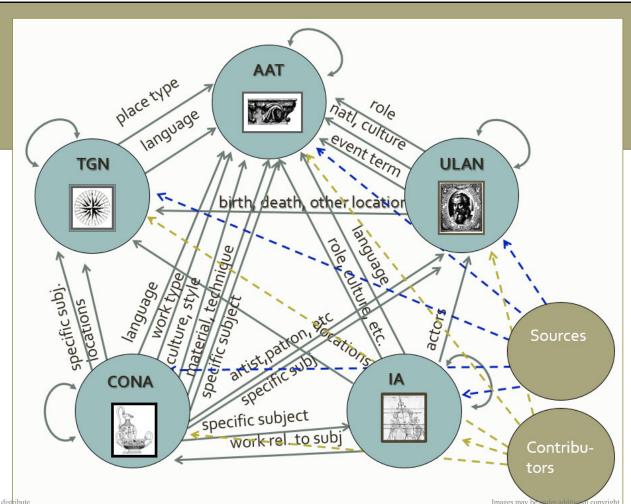
- Certain data within each Getty vocabulary record are controlled through links to values in other vocabularies
- From the beginning, even before linking between vocabularies was technically practical, fields were controlled by extensible lists drawn from the pertinent other vocabulary

AAT nati, culture TOR language **ULAN TGN** birth death, other location specific subj. locations Sources CONA specific subject work rel_to subj Contributors

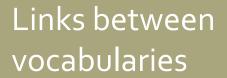
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Links between vocabularies

- E.g., roles within ULAN
 (e.g., artist, watercolorist,
 portraitist, patron, emperor)
 were controlled by lists
 containing terms from the
 Agents Facet in AAT
- Going from hand-made lists to LOD required cleaning up inconsistencies
- Links between vocabularies had to be logical and correct in LOD.



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TGN List Name: Place Types

Search Method: New Search

Place Type ID	Place Type
84202	section
84203	barriada
84205	bidonville
84211	Chinatown
84214	Bezirk
84215	contrada
84216	sestiere
84217	rione
84218	urban district
84219	urban division
84221	frazione

E.g, TGN *place types* were normalized and linked to AAT terms with release of LOD

AAT record

ID: 300108469

Page Link: http://vocab.getty.edu/page/aaf

Chinatowns (neighborhoods, residential

Note: Chinese sections of large towns or citi

Terms:

Chinatowns (preferred,C,U,English-P,D,Chinatown (C,U,LC,English,AD,U,SN)中國城 (C,U,Chinese (traditional)-P,D,U,U) 唐人街 (C,U,Chinese (traditional),UF,U,U) 華埠 (C,U,Chinese (traditional),UF,U,U) zhōng guó chéng (C,U,Chinese (translite zhong guo cheng (C,U,Chinese (translite chung kuo ch'eng (C,U,Chinese (translite chinezenwijken (C,U,Dutch-P,D,U,U) chinezenwijk (C,U,Dutch,AD,U,U) barrios chinos (residentes de ascenden barrio chino (residentes de ascendencia



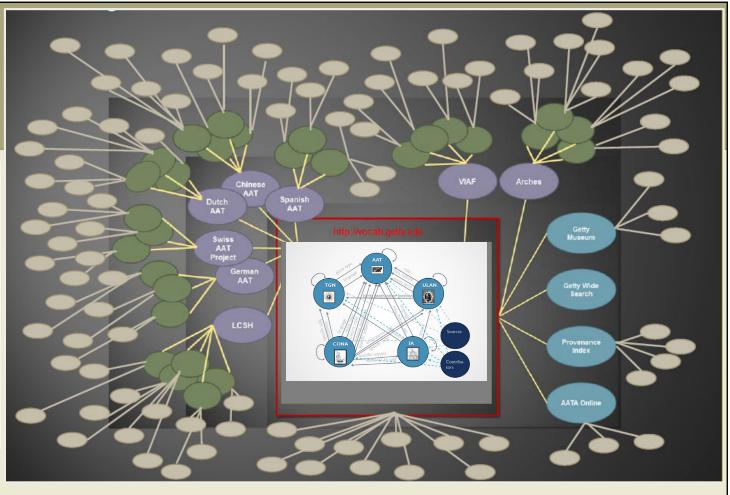


Links to outside

 Links within each vocab and between vocabs

Goal:

•Relationships from the Getty vocabularies to other resources within the Getty and outside



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Background on CONA

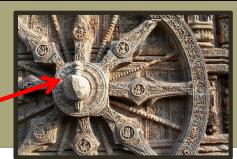
Update on CONA

About CONA

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CONA as Linchpin

linchpins
SN: Pins inserted through the end of an axletree to secure the wheel or other part from sliding off the axle



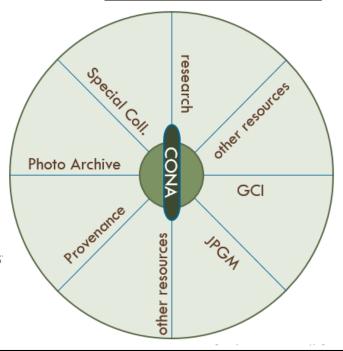
LINKS and RELATIONSHIPS

- Thesaural relationships, equivalence relationship (for titles and names), associative relationship (for links between works), and hierarchical relationship (for links between a whole work and its parts)
- Powerful links and relationships within a CONA record, between CONA records, and to the other Getty vocabularies are among the most attractive characteristics of the CONA model
- Scope can include many types of works, built and unbuilt, historical and current, extant and destroyed

How will CONA be used? Ideas for Getty use, and beyond

- During the last few years, we have been compiling in CONA thousands of records to represent many types of works and relationships in order to test hypotheses about content, required fields, and editorial guidelines
- Now it is time to analyze lessons learned and move forward

Now lets time to analyze lessons learned and move for



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Broadened Scope of CONA: Major subdivisions

Built Works

• **Structures or parts of structures** that are the result of conscious construction, are of practical use, are relatively stable and permanent, and are of a size and scale appropriate for—but not limited to—habitable buildings

Movable Works

• The **visual arts and other cultural works** that are of the type collected by art museums and special collections, or by an ethnographic, anthropological, or other museum, or owned by a private collector; Examples **include paintings**, **sculpture**, **prints**, **drawings**, **manuscripts**, **photographs**, **ceramics**, textiles, furniture, and other visual media such as frescoes and architectural sculpture, performance art, archaeological artifacts, and various functional objects that are from the realm of material culture and of the type collected by museums

Visual Surrogates

• Images and three-dimensional works intended to be surrogates for the works depicted, for example study photographs; does not include works considered themselves works of art (e.g., Julius Shulman)

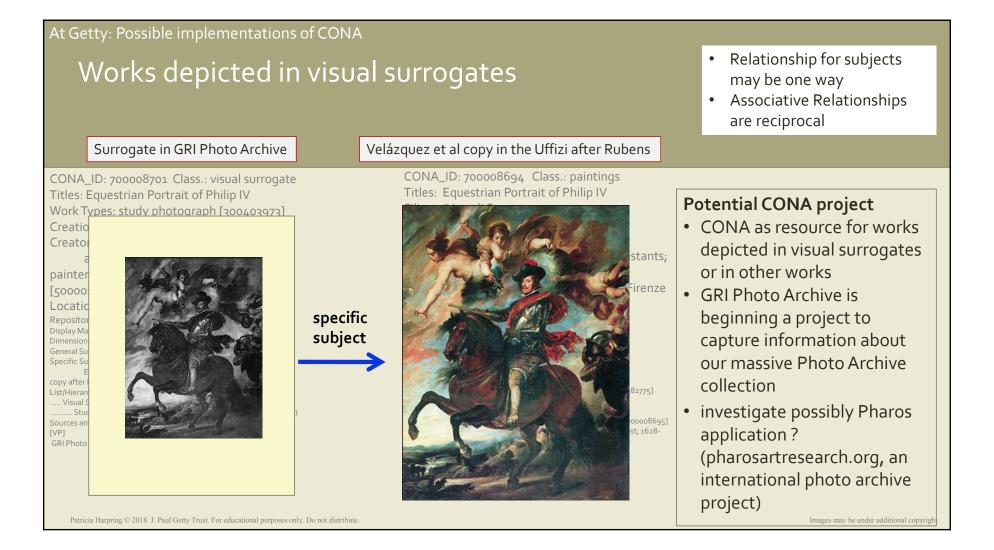
Conceptual Works

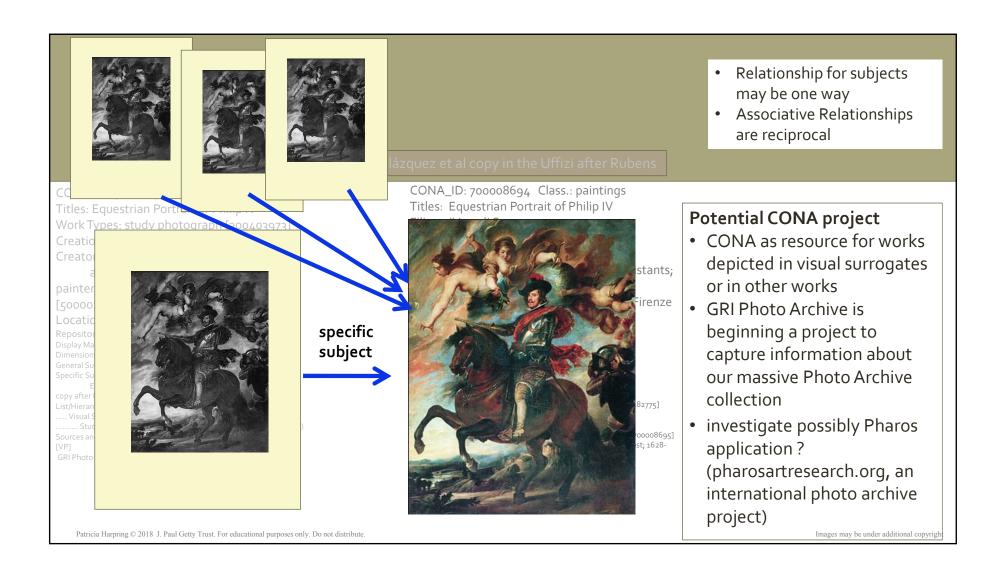
• **Multiples: records for series as a concept**, conceptual records for multiples (made from same plate, negative, mold, etc.), and other similar records; physical works, such as prints that belong to a series, may be linked to conceptual record for the series (similar to FRBR "work")

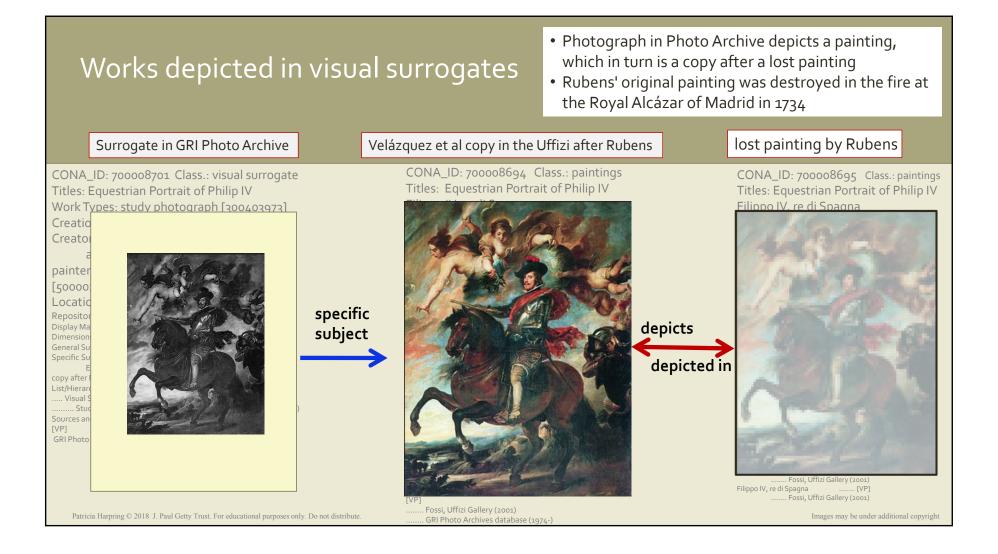
Unidentified Named Works

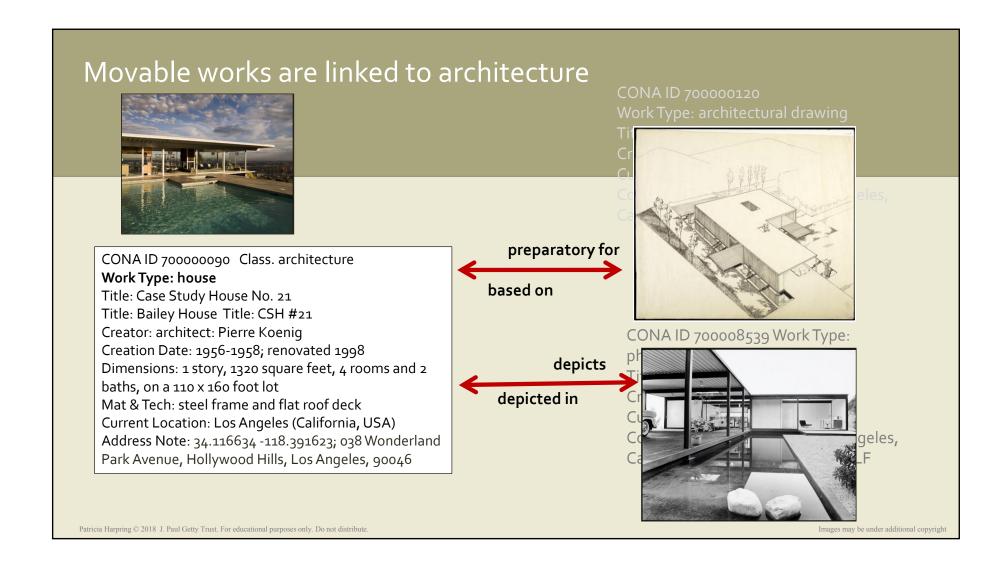
• Works described in archival inventories or other sources, but their identity is not established (e.g., Provenance Index inventories, or named architecture in finding aids)

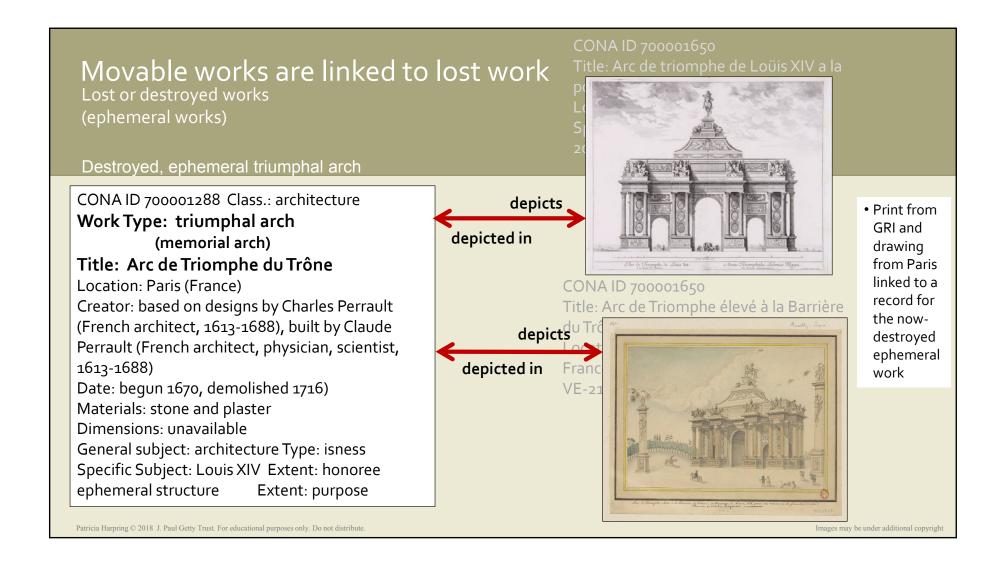
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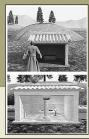




Outside Getty: Possible implementations of CONA

Movable works are linked to lost work





CONA_ID: 700009114 Class.: architecture | sculptures

Title: Wu Family Shrine

武氏祠

Work Type: assemblage | shrines | pictorial stones

Location: Shandong province, China

Creator: various artists
Style/Period: Han Dynasty
Date: 206 BCE-211 CE

Materials: carved and engraved stone; masonry construction **Dimensions**: various dimensions **General Subject**: history and legend | funerary

Specific Subject:

Wu family (Chinese family) Extent: theme

memorial Extent: purpose

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 If leveraged as a research tool, CONA could link works that are not in the Getty collections

CONA_ID: 700009113 Class.: graphic arts

Title: Rubbing of stone relief from the offering shrines of

Wuliangci Flag: exhibition

Rubbing of stone relief from the offering shrines of Wuliangci of the Han dynasty: Traditional grouping Wu Liang Group 3

Flag: repository
Work Type: rubbing

Location: Art Gallery of New South Wales (Sydney, Australia)

Type: current Rep.No.: 163.1979.17
Shandong province, China Type: creation
Creator: unknown Chinese Date: 1850

Materials: ink on paper, rubbing

General Subject: another work | history and legend

Specific: Wu Family Shrine **Extent:** work depicted | pavilion **Note:** This scene occurs on the south wall of the Wu Liang shrine. The focal scene of this slab is the paxilion with this copyright.

Virtually reconstructing disassembled works

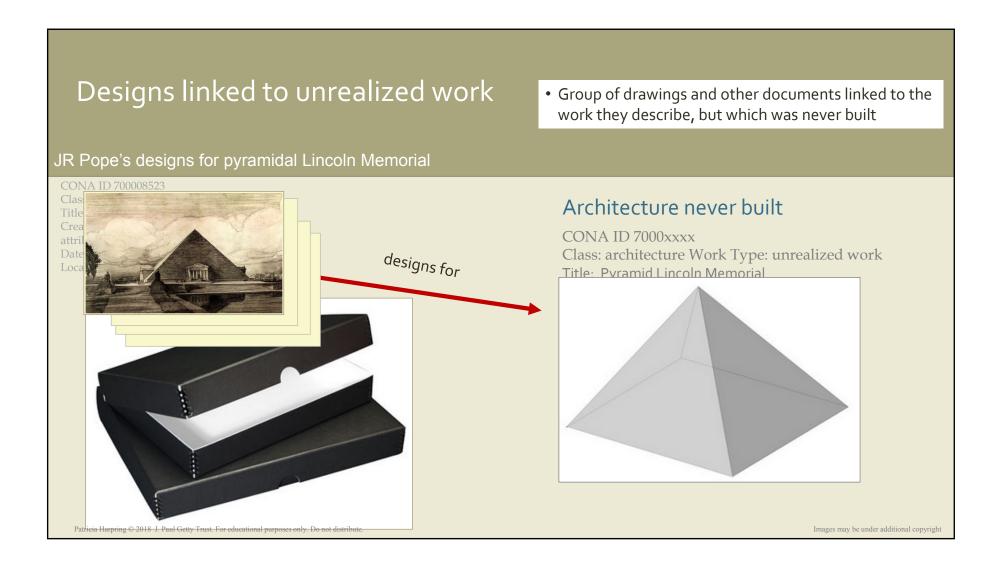
- Reconstructed disassembled works held in different repositories or locations
- Common with manuscripts, paintings, sculpture, architecture, etc.
- May be varying opinions on reconstructions

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Proposed reconstruction of Asciano Altarpiece

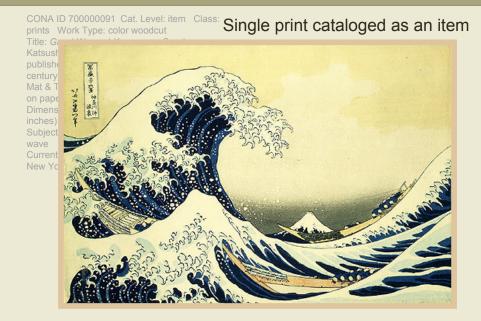


CONA ID 700008554 Proposed reconstruction of Matteo di Giovanni's Asciano Altarpiece by Rachel Billinge. Extant panels are now in National Gallery London, Siena, Asciano, Villa I Tatti, Esztergom, Altenburg, Rhode Island, and Private Collections.



Linking for conceptual relationships

Conceptual works
Multiples, Series of works



- Print at a museum or special collection is cataloged as an item
- Unique physical item is linked to conceptual record = print as a concept, which in turn is linked to a series

Images may be under additional copyright

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Linking for conceptual relationships

Conceptual works
Multiples, Series of works

Other items were made from the same blocks; a conceptual record for the print may link them all together; and to a series











Thirty-six Views of Mount Fujl St Series

Great Wave off Kanagawa (mus.
L'arc de la vague au large de Kanagawa [N]
The Great Wave [N]
The Great Wave off Kanagawa [N]
The Great Wave off Kanagawa [N]
Under the Wave off Kanagawa [N]

Current Location: Metropolitan Museum of Art, New York, New York, USA), JP1847.



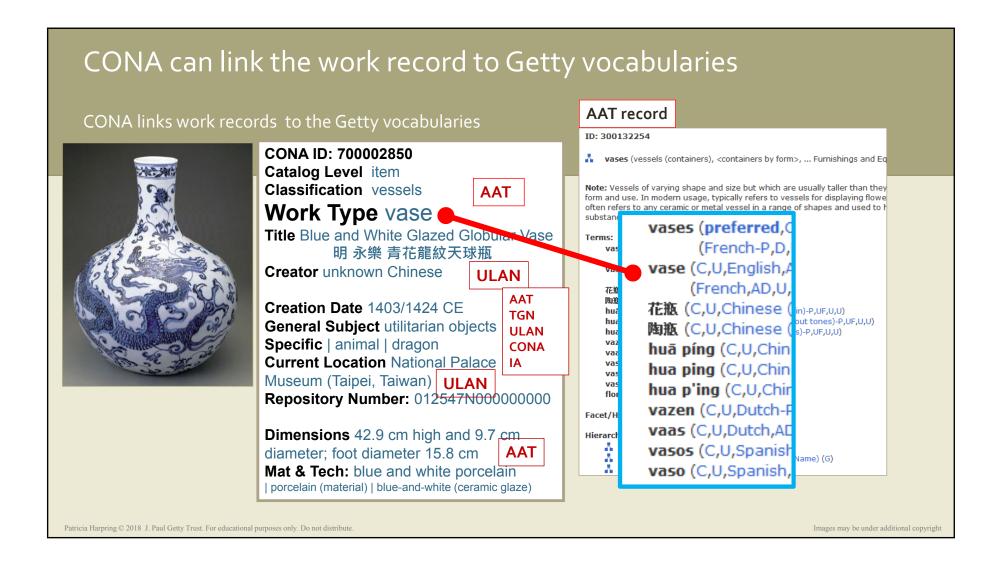






Unique physical item is linked to conceptual record for the print as a concept, which in turn is linked to a series

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CONA merges information from multiple sources in one record

CONA ID: 700002923

Catalog Level item Classification architecture

Work Type building complex | temple Title/Name Temple of Heaven (en)

Tian Tan (zh-tr) | T'ien-t'an (zh-tr) | 天坛 (zh)

天壇 (zh) | 천단 (ko)

Creator [display] first built by Ming Chengzu (1360-1424);

extended by Ming Shizong (1507-1567); renovated by Qianlong (1711-1799)

Creation Date [display]: 1530, during Ming dynasty

General Subject architecture Type: isness

Specific Earth [TGN 7030638] Extent: dedication

Current Location Beijing (Beijing Shi (municipality), China)

(nation) Address Note: 39°57′05″N 116°24′36″E

Dimensions [display] entire complex: 237 hecatres

Mat & Tech [display] wood and stone [wood AAT 300011914]

stone AAT 3000111761

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

Contributors JPGM VP GRIPSC BWR

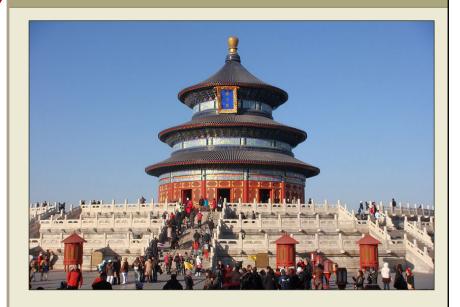
Sources Built Works Registry BWR3792244; Library of Congress Authorities online (2002-) n2011019454; Fodor's Travel (2016); J.

Paul Getty Museum, collections online (2000-); Great Buildings

Online (1997-)

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- · Multiple contributors data merged in one record
- CONA ID uniquely identifies the work in CONA
- · Links to other IDs, such as LOC, VIAF, BWR



CONA captures multiple opinions

CONA ID: 700000178

Catalog Level item

Classification paintings

Work Type panel painting | altarpiece

Title Adoration of the Magi

Adorazione dei Magi (repository title)

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

Creation Date [display]

1380s/1390s; some scholars date it ca. 1400 or later

execution Start Date 1380 End Date 1399 alternative date Start Date 1395 End Date 1409

General Subject religion and mythology | human figures

Specific | Adoration of the Magi Extent: foreground | Siena | horses | Holy Family | gold | frankincense | myrrh | Journey of the Magi Extent: background | king | deity |

death | Epiphany | Three Ages of Man

Current Location Pinacoteca Nazionale di Siena (Siena, Italy);

Repository No no. 104

Dimensions 195 x 158 cm (76 x 61 5/8 inches)

Mat & Tech tempera on panel

Contributors BHA VP CD PNS GRI-PA

Sources Pinacoteca Nazionale di Siena (2002-); Boucher and Fiorini, Magi Reconstructed (2012); Cole, Sienese Painting (1985); Freuler, Bartolo di Fredi (1994); Hamping, Bartolo di Fredi (1992)

Patricia Har pring I Bartolordis Fredi (1992) purposes only. Do not distribute.

 E.g., Date assigned by the repository is not agreed upon by all scholars, both are recorded in CONA



Links back to repository, if any

CONA ID: 70000178

Catalog Level item Classification paintings

Work Type panel painting | altarpiece

Title Adoration of the Magi

Adorazione dei Magi (repository title)

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

Creation Date [display]

1380s/1390s; some scholars date it ca. 1400 or later

Start Date 1380 End Date 1399 execution alternative date Start Date 1395 End Date 1409

General Subject religion and mythology | human figures Specific | Adoration of the Magi Extent: foreground | Siena | horses | Holy Family | gold | frankincense | myrrh | Journey of the Magi Extent: background | king | deity | death | Epiphany | Three Ages of Man

Current Location Pinacoteca Nazionale di Siena (Siena, Italy);

Repository No no. 104

Dimensions 195 x 158 cm (76 x 61 5/8 inches)

Mat & Tech tempera and gold leaf on panel Contributors BHA VP CD PNS GRI-PA

Sources Pinacoteca Nazionale di Siena (2002-); Boucher and Fiorini, Magi Patricia Harbri Reconstruote du (2012); o Cole i Sienese Painting (1985); Freuler, Bartolo di Fredi (1994) Collocates IDs for this unique work

 Link back to site. to LOD, or other resource for the same work



CONA links to depicted subject

CONA adds subject access to work records
Controlled by AAT, ULAN, TGN, CONA, and IA

- As known and verified in a recent survey by OCLC, subject access is a) missing from most museum records, and b) one of the most important fields for retrieval by users
- CONA could fill that gap by providing subject indexing
- Automated plus editor vetted; mining titles, etc.; experts and expert crowd sourcing

IA ID 1000045 Names

- Xibalba
- Place of Fear

ULAN ID 500329587 Names

- Unen Bahlam
- Baby Jaguar

AAT ID 300191778

Terms

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

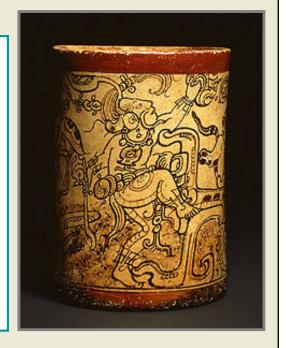
CONA ID 70000012 Class: Pre-Colombian art

General Subject:

• religion and mythology [General Subject ID 31801]

Specific Subjects:

- Xibalba (Mayan underworld) [IA 1000045]
- Baby Jaguar (Mayan king, ruled ca. 317 BCE)
 [ULAN 500329587]
- man (male human) [AAT 300025928]
- skeleton (animal component) [AAT 300191778]
- ax (weapon) [AAT 300024664]
- altar [AAT 300003725]
- death [AAT 300151836]
- celebration [AAT 300152441]



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CONA links parts to whole & context

- Whole/Part Relationships
- E.g., individual caves in the complex of caves and built recessions; also linked to TGN site
- Work inside each cave could be cataloged separately and linked



Title: Mogao Caves Complex Title: Grottes de Mogao

Title: 莫高窟
Record Type: built work Catalog Level: complex

Classification: architecture Work Type: complexes (buildings)

Creator: various artists

Date: 4th to the 14th century

Location: Mogao caves (ancient site) (Dunhuang, China)

TGN

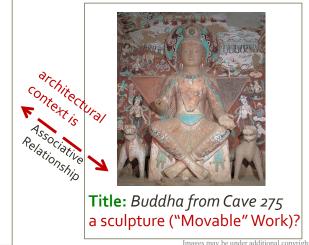
Desc. Note: 492 cells and cave sanctuaries in Mogao are famous for statues and wall paintings, spanning 1,000 years of Buddhist art. **Broader Context: Mogao Caves Complex**

Relationship Type: Whole/part



Title: Mogao Cave 275

a Built Work?



CONA can record deaccessioned works Works in exhibitions

Works deaccssioned and deleted from repository database

Works in exhibitions, not owned by repository hosting the exhibition

JPGM could record deaccessioned works in CONA No longer in their collections management system

Can also record works at a repository for exhibitions

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formerly at the J. Paul Getty Museum

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nting (painting 1403-1482); Iller Stichting

What comes next?

Conclusion

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Conclusion

- The Getty vocabularies are constructed to allow their use in linked data
- Releasing the Getty vocabularies as Linked Open Data can have a transformative effect on the discipline of art and architectural history in general
- · Digitizing data does not necessarily ensure that it will be usable or used
- We will continue to investigate methods of optimizing and exploiting the power of the Getty vocabularies, working with the broader user community to improve possibilities for research and discovery of visual arts information across disciplines

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