Linking the Getty Vocabularies:

The Content Perspective, Including an Update on CONA

Patricia Harpring
Managing Editor, Getty Vocabulary Program

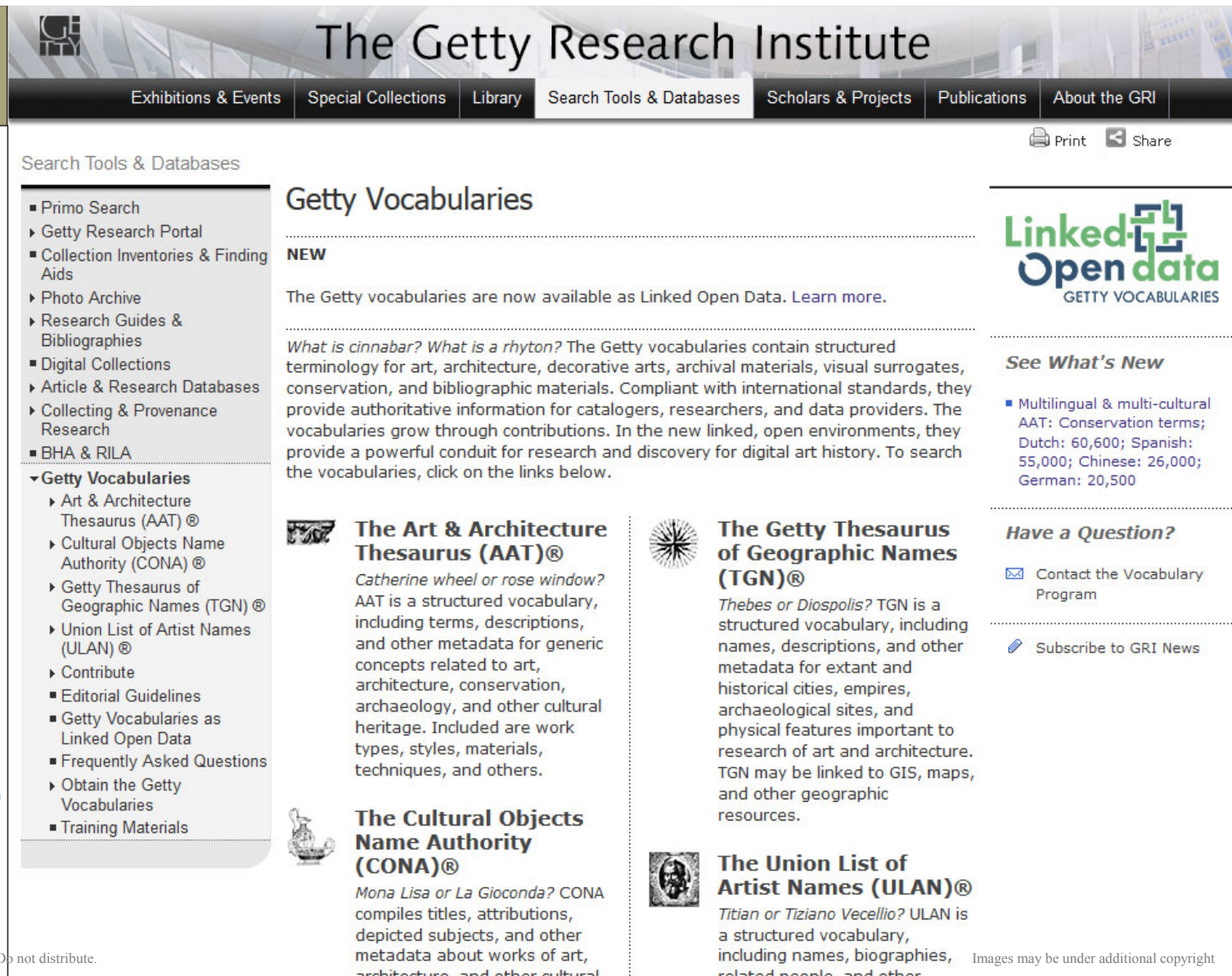for joint Pacific Neighborhood Consortium – Digital Heritage 2018
San Francisco   REVISED for GRI: November 2018

Find the Getty Vocabs Online

- For information about the Getty vocabularies, see this site

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

- Contact us: vocab@getty.edu

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

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Search Tools & Databases

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

Getty Vocabularies

NEW

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.
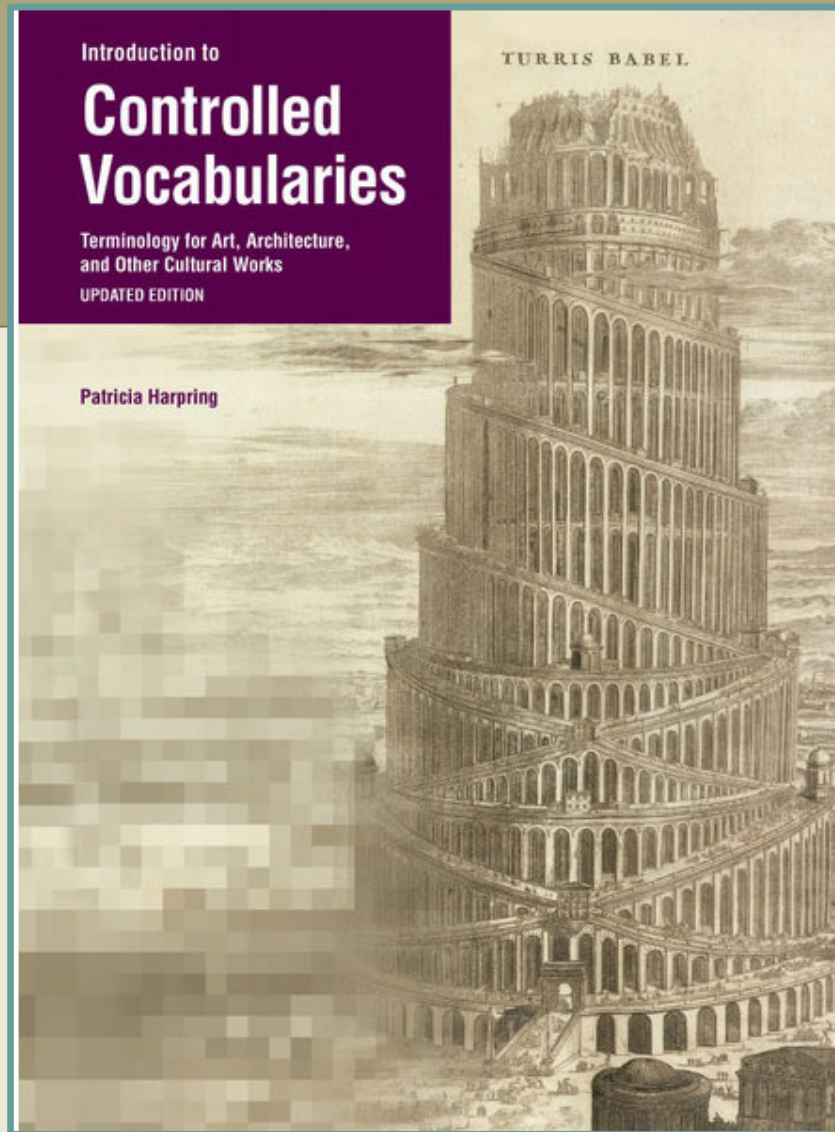
The Art & Architecture Thesaurus (AAT)®

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, architecture, and other cultural

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, related people, and other

Linked Open data
GETTY VOCABULARIES

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?

✉ Contact the Vocabulary Program

✎ Subscribe to GRI News

Introduction to Controlled Vocabularies

- For information about controlled vocabularies

- Author: Patricia Harpring
- Series Editor: Murtha Baca

Introduction to
Controlled Vocabularies
Terminology for Art, Architecture, and Other Cultural Works
UPDATED EDITION

Patricia Harpring

TURRIS BABEL

The Way We Were

Where We Are Now

- Introduction

The Way We Were

Finding information by hand

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 (Bibliography for the History of Art)
- Printing out , photocopying, taking photos, 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

MAKING RELATIONSHIPS
LINKING

- **Goal = data linked to other data, discoverable =** First = human factor, links/consensus across different disciplines; repositories (archives, special collections, visual resources, museums, bibliographic, scholars); languages and cultures; current and historical

LINKS

Where We Are Now

A few decades have passed …
Using <u>Linked</u> Open Data

Getty Vocabularies are LINK-able

Data in standard formats that allow linking

- Now we can begin to find materials for research and discovery online
- Getty vocabularies have been used for indexing Now = links are possible via LOD, links to TGN and AAT within ULAN are used
- 90 sample SPARQL queries, editable

Find artists who worked in Italy and lived during a given time range but who are not Italian

Select ULAN records
· Having event that took place in
LINK tgn:<u>1000080</u> Italy or any of its descendants
Hier. Link in TGN Birth date between 1250 and 1780
Descendants of facet ulan:500000002 **LINK**
"Persons, Artists"
Not having nationality aat:300111198 Italian
or any of its descendants **LINK**

- Then use this set of artists to search for works

ULAN

Getty Vocabularies: LOD   SPARQL   Queries   Any ▾ Search...   Search Brie

Possessions)
4.20   Places Nearby Each Other
5   ULAN-Specific Queries
5.1   Agents by Type
5.2   Associative Relations of Agent
5.3   Female Artists
5.4   Female Artists as a Hobby
5.5   Native American Painters
5.6   Names of Native American Painters
5.7   Architects Born in the 14th or 15th Century
5.8   Indian and Pakistani Architectural Groups
5.9   Non-Italians Who Worked in Italy
5.10   Artists Associated to a Given Patron or his Family
5.11   German, Dutch, Flemish printmakers, listed with their teachers
5.12   Artists Whose Identity May be Associated or Confused With Another
5.13   Ordered Hierarchy of Given Subject
5.14   Ancient Artists or Groups by Nationality
5.15   Art Repositories in the USA by State
5.16   Popes and Their Reigns
5.17   Pope Reign Durations
5.18   Life Events
5.19   Artists with Name, Bio, Nationality, Type
6   Language Queries
6.1   Scientific Names by Language
6.2   Scientific Names not in English and Latin
6.3   Find Terms by Language Tag
6.4   Languages and ISO Codes
6.5   Language URLs

```
select ?x ?name ?bio ?birth {
  {select distinct ?x
   {?x
foaf:focus/bio:event/(schema:location|(schema:location/gvp:broaderExtended)) tgn:1000080-place}}
  ?x gvp:prefLabelGVP/xl:literalForm ?name;
     foaf:focus/gvp:biographyPreferred [
       schema:description ?bio;
       gvp:estStart ?birth].
   filter ("1250"^^xsd:gYear <= ?birth && ?birth <= "1780"^^xsd:gYear)
   filter exists {?x gvp:broaderExtended ?facet.
     filter (?facet in (ulan:500000003, ulan:500000002))}
   filter not exists {
     ?x
foaf:focus/(schema:nationality|(schema:nationality/gvp:broaderExtended)) aat:300111198}}
```

LINK – [this is coming, as of now not enough works are discoverable]

What is Linked Open Data (LOD)?

{ "Subject" : { "type" : "uri", "value" : "http://vocab.getty.edu/aat/300198841" }, "Predicate" : { "type" : "uri", "value" : "http://www.w3.org/2000/01/rdf-schema#label" }, "Object" : { "xml:lang" : "el-latn", "type" : "literal", "value" : "rhyta" } }, { "Subject" : { "type" : "uri", "value" : "http://vocab.getty.edu/aat/300198841" }, "Predicate" : { "type" : "uri", "value" : "http://www.w3.org/2000/01/rdf-schema#label" }, "Object" : { "xml:lang" : "es", "type" : "literal", "value" : "rhyta" } }, { "Subject" : { "type" : "uri", "value" : "http://vocab.getty.edu/aat/300198841" }, "Predicate" : { "type" : "uri", "value" : "http://www.w3.org/2000/01/rdf-schema#label" }, "Object" : { "xml:lang" : "en", "type" : "literal", "value" : "rhyton" } }, { "Subject" : { "type" : "uri", "value" : "http://vocab.getty.edu/aat/300198841" }, "Predicate"

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

- When data is linked and open, it means that data is structured and published according to
   the principles of Linked Data = both interlinked and made openly accessible and shareable on Semantic Web

- Goal = allow data from different resources to be interconnected and queried

What is Linked Open Data (LOD)?

- Universal Resource Identifier (URI) - an ASCII string used to identify things on the Semantic Web
http://vocab.getty.edu/aat/300198841

- URIs are linked to each other through triples composed of subject-predicate-object relationships

Unique, persistent IDs are critical

<aat:300198841> <gvp:aat2100_distinguished_from> <aat:300197140>

subject	predicate	object
rhyta –	**[are] distinguished from** –	**stirrup cups**

- The definitions of data elements and links are described by ontologies
http://www.w3.org/2004/02/skos/core#
http://www.w3.org/ns/prov#
http://purl.org/dc/elements/1.1/

- Data is delivered to a requesting agent through a standard triple serialization using HTTP
RDF/XML, Notation-3 (N3), Turtle, N-Triples, RDFa, JSON, JSON-LD

Scope of Each Getty Vocabulary

User Statistics

- Context of
the Getty Vocabularies

Context of the Getty vocabularies

Getty processes contributions

- The Getty vocabularies comply with standards for thesaurus construction (NISO and ISO)
- Grow through contributions from the user community
- Compiled and disseminated by the Getty Vocabulary Program (GRI) 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

Batch loading of data
From various contributors, In our prescribed format

Processing Data
Global edits, VCS system, Merging, editing/adding info Moving/adding links

Releasing Data
Release formats Web, LOD, XML, Rel Tables

Context of the Getty vocabularies

Getty processes contributions

- **300 contributing institutions** to the Getty vocabularies
  www.getty.edu/research/tools/vocabularies/contributors.html

A B C D E F G H I J K L M N O P Q R S T U V W X Y 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)

Batch loading of data
From various contributors,
In our prescribed format

Processing Data
Global edits, VCS system,
Merging, editing/adding info
Moving/adding links

Releasing Data
Release formats
Web, LOD,
XML, Rel Tables

Context of the Getty vocabularies

Getty processes contributions

- Valued as authorities =
  1. quality is reliable (compiled by experts and sources are cited)
  2. the data is linkable

- Use of Getty vocabularies = very high for the domain

- Online search page = around 100,000 searches / month, top resources at Getty Research Institute (GRI)

- Linked Open Data (LOD), typical month in 2018 = over 1,000,000 records (92.95 GB of data)

- Implemented in collection management systems and Web sites around the world, new implementations

Batch loading of data
From various contributors, In our prescribed format

Processing Data
Global edits, VCS system, Merging, editing/adding info Moving/adding links

Releasing Data
Release formats Web, LOD, XML, Rel Tables

How are the Getty vocabs used?

LINKS to vocabs

- Used for cataloging and for retrieval
- Fields controlled by Getty vocabularies

AAT record   Fields controlled by vocabs

Semantic View (JSON, RDF, N3/Turtle, N-Triples)

ID: 300011443
Page Link: http://vocab.getty.edu/page/aat/300011443

marble (rock) (metamorphic rock, rock (inorganic material), ... Materials (hierar...

Catalog Level item
Classification sculpture | antiquities
Work Type statuette   AAT
Titles Female Figure of the Kilia Type
      Female Figure (Star Gazer)
Creator unknown Anatolian   ULAN   AAT TGN ULAN CONA IA
Creation Date 2800/2200 BCE
Style/period: Chalcolithic
General Subject human figures
Specific Subject fertility | human female
Current Location J. Paul Getty Museum, Getty Villa
Malibu (Los Angeles, California, USA)   ULAN TGN
  Repository Number 88.AA.122
Dimensions 14.3 cm height (5 5/8 inches)
Mat & Tech carved marble **Index:** marble   AAT
Style Kilia type

marble (rock) (preferred,C,U,LC,English
marbles (rocks) (C,U,English,AD,U,N)
marmor (C,U,English,UF,U,N)
大理石 (C,U,Chinese (traditional)-P,D,U,U)
大理岩 (C,U,Chinese (traditional),UF,U,U)
dà lǐ shí (C,U,Chinese (transliterated Har
da li shi (C,U,Chinese (transliterated Pin
ta li shih (C,U,Chinese (transliterated W.
marmer (C,U,Dutch-P,D,U,U)
marmerplaat (C,U,Dutch,UF,U,U)
marmerplaten (C,U,Dutch,UF,U,U)
marbre (roche) (C,U,French-P,D,U,N)
marbres (roche) (C,U,French,AD,U,N)
marmo (C,U,Italian-P,D,U,U)
mármol (C,U,Spanish-P,D,U,U)
Marmor (C,U,German-P,D,U,N)

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**

Five Getty vocabularies

Sample record

AAT_ID: 300011329

Terms:
bas-reliefs (pref, en, fr)
bas-relief (en, fr)
low reliefs (en)
bas-reliëfs (nl)
bassorilievo (it)
bajos relieves (es)
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)

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)
- 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-)

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)
Σιένα (el)
锡耶纳 (zh)
Сиена (ru)
סיינה (he)
シエーナ(ja)
Sienese (en,adj)
Senae (historical, la)
Saena Julia (historical, la)
Sena (historical, Etruscan)

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 **AAT**   **LINKS**
inhabited place settled by Et... (flourished by 6th century BCE)
city
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 2010; Webster's Geographical Dictionary (2007) 1114
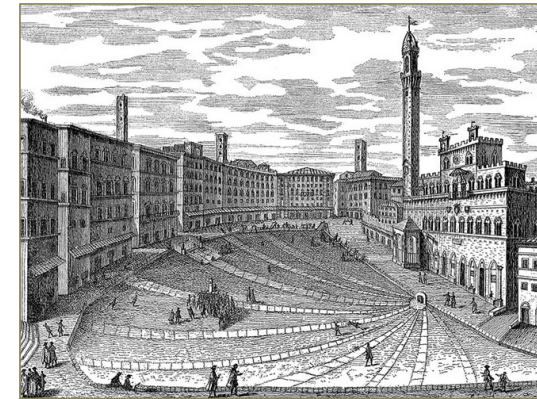
Scope of each Getty vocabulary

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, Antoni
Gaudi, Antonio
גאודי, אנטוני (he)
安东尼·高迪 (zh)

Nationalities:
Spanish (pref)
Catalan

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

Gender: male

Birth and Death Places: TGN
 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]
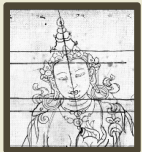
worked with … Martorell y Montells, Joan (Spanish architect, 1833-1906) [500072753]

student of .... Sala Cortes, Emilio (Spanish architect, active late 19th century) [500287019]

Contributors:
VP,JPGM,Avery,FRICK, WCI,Prov,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

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)
སྤྱན་རས་གཟིགས (bo)
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)

AAT
TGN
ULAN
CONA

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

LINKS

Associative Relationships
associated with .... Krishna (Hindu ideity)
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
[VP,Rijksmuseum] Encyclopedia Britannica Online (2002-); Bowker, Oxford Dictionary of World Religions (1997); Huntington, Art of Ancient India (1985); *LC: LC control no.: sh 85010492*

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)
Αγία Σοφία (el)
Agia Sofia
Agia Sophia
Haghia 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: AAT
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) ULAN

LINKS

Locations: TGN
Current: İstanbul (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 AAT
Dimensions: central dome: diameter 31 meters (102 feet); height 56 meters (184 feet)
Styles:
Byzantine | Ottoman AAT

General Subject:
architecture *Type:* isness
religion and mythology *Extent:* purpose
Specific Subjects:
Holy Wisdom (Christian allegory)

AAT
TGN
ULAN
CONA
IA

Contributors:
VP; BWR
Sources: Maidstone, Hagia Sophia (1988); Built Works Registry database (2015-) BWR3782560; Fleming, Penguin Dictionary of Architecture (1999); Theoharidou, Architecture of Hagia Sophia (1988); UNESCO World Heritage Centre [online] (1992-) C356

Coordinating Contributed Records

- Linking or Merging?

Relationships and linking are built into and among the Getty vocabularies

Merging data in one record

detail of portrait, by Pietro Longhi,
in Ca' Rezzonico, Venice

- Compiled resources = multiple contributors, separate records for same entity

- Published as unified records for end users

- Rather than clustering, Getty vocabularies merge the data into a homogenous whole

- The attribution to the contributor and sources are retained

LINK back to contributed data

Getty vocabularies merge contributed records

JPGM: tmsid_3041
Guardi, Francesco

Witt: WCI_20934875
Guardi, Francesco

Avery: avery_ 49856
Guardi, Francesco

BHA: bha_8476
Guardi, Francesco

GRIPA: pa_387,665
Guardi, Francesco

PROV: pr_387,665
Guardi, Francesco

ULAN_500017409

Names:
   Guardi, Francesco
   Francesco Guardi
   Gardi, Francesco
   Garde, Francesco
   Gardis, Francesco
   François Guardi

Nationalities:
   Italian
   Venetian

Links to images
http://www.getty.edu/art/collection/objects/226156

Roles:
   artist
   painter
   landscapist

Relationships and linking are built into and among the Getty vocabularies

Merging data in one record

Getty vocabularies merge contributed records

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?

- Candidates for merging
- Automatically merged or rejected for merging
- Possible but not enough firm data = passed to human editors

- Long experience in perfecting algorithms → Reconciliation tools are under development by Getty Digital

ULAN record is a merged, homogenous entity

Union List of Artist Names® Online
Full Record Display

New Search   ◀ Previous Page   ? Help

Click the 🔧 icon to view the hierarchy.

Semantic View (JSON, JSONLD, RDF, N3/Turtle, N-Triples)   ▪ Representa...

🔧 **Guardi, Francesco** (Italian painter, 1712-179...

Note: Venetian painter, during the first half of his...
on decorations and church paintings; later becam...
vedutista (view painter) of Venetian urban life.

Names:

Guardi, Francesco (**preferred**,V,index,LC)
Francesco Guardi (V,display)
Gardi, Francesco (V)
Garde, Francesco (V)
Gardis, Francesco (V)
Gauda, Francesco (V)
Guada, Francesco (V)
Guarde, Francesco (V)
Guardet, Francesco (V)
Gvardi, Franchesko (V)
Guardi, François (V)
Guardi, Francisco (V)

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.) 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

Attribution to contributor and source is maintained, but merged, unified, and "preferred" is flagged

ULAN record is a merged, homogenous entity

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Contributors
AVERY, BHA, ...
WL-Courtauld...
Sources
Avery Authorit...
Harald Szeem...
Collections (2...
J. Paul Getty ...
Library of Con...
M. Knoedler &...
Collections (2...
Provenance In...
RILA/BHA (19...
Witt Library, ...

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]

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Nationalities:
Italian (**preferred**)
Venetian

Contributors
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WL-Courtauld

So
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J.
Lib
M.
Co
Pro
RIL
Wi

List/Hierarchical Position:
⛓ .... Persons, Artists
⛓ ....   Guardi, Francesco (I)

Biographies

(Venetian painter, 1712-1793) ..... [VP Preferrred]
(Venetian painter, 1712-1793) ..... [BHA]
(Italian painter, ca. 1712-1793) ...... [GRIPA]
(Italian painter, ca. 1712-1793) ...... [PROV]
(Italian artist, 18th century) ......[WCP]
(Italian artist, 18th century) ......[WCI]
(Italian artist, 1712-1793) ......[WL-Court...]
(Italian painter, 1712-1793) ......[AVERY]
(artist, 1712-1793) .... [GRL]

...nhabited place)
...nhabited place)

...) [500060865]
08]
...Battista
, 1696-1770)
...rried Tiepolo in 1719

LINK back to contributed data

Attribution to
contributor and
source is maintained,
but merged, unified,
and "preferred" is
flagged

Example of a "clustered" display with separate entities

Guardi, Francesco, 1712-1793
Francesco Guardi
Guardi, Francesco

VIAF ID: 27073465 (Personal)

In *VIAF: Virtual International Authority File*

Permalink: http://viaf.org/viaf/27073465

Preferred Forms

100 0 _ ‡a Francesco Guardi

200 _ | ‡a Guardi ‡b Francesco ‡f 1712-1793

100 1 _ ‡a Guardi, Francesco

100 1 _ ‡a Guardi, Francesco

B 100 1 _ ‡a Guardi, Francesco

100 1 _ ‡a Guardi, Francesco ‡d (1712-1793)

100 1 _ ‡a Guardi, Francesco ‡d (1712-1793).

100 1 _ ‡a Guardi, Francesco ‡d 1712-1793

100 1 _ ‡a Guardi, Francesco ‡d 1712-1793

100 1 0 ‡a Guardi, Francesco ‡d 1712-1793

100 1 _ ‡a Guardi, Francesco ‡g Italian painter,

100 1 _ ‡a Guardi, Francesco, ‡d 1712-1793

100 1 _ ‡a Guardi, Francesco, ‡d 1712-1793

100 1 _ ‡a Guardi, Francesco, ‡d 1712-1793

100 1 0 ‡a Guardi, Francesco, ‡d 1712-1793

100 0 _ ‡a Francesco Guardi

200 _ | ‡a Guardi ‡b Francesco ‡f 1712-1793

100 1 _ ‡a Guardi, Francesco

100 1 _ ‡a Guardi, Francesco

B 100 1 _ ‡a Guardi, Francesco

100 1 _ ‡a Guardi, Francesco ‡d (1712-1793)

100 1 _ ‡a Guardi, Francesco ‡d (1712-1793).

(ULAN is a contributor to VIAF)

Equivalence
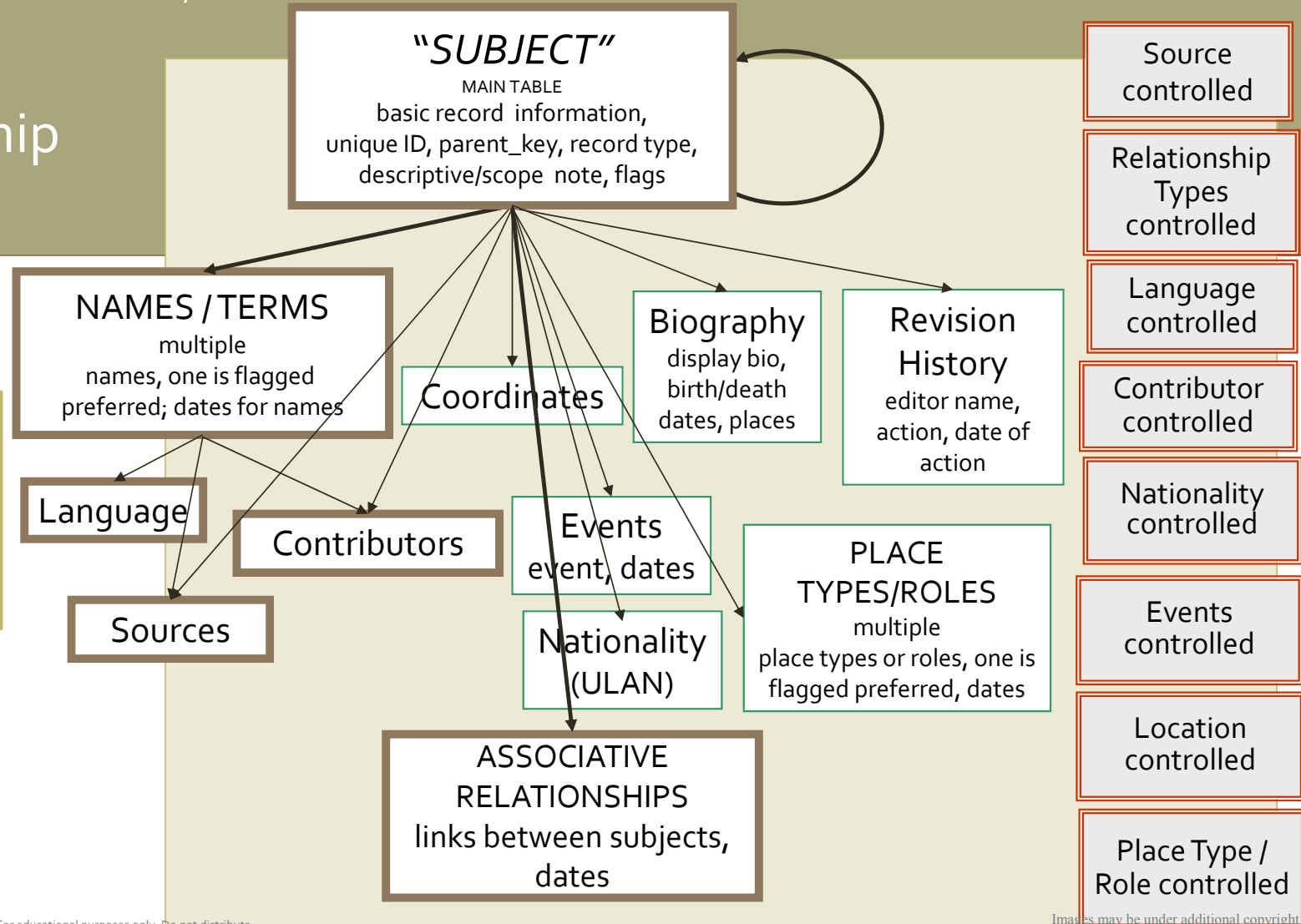Relationships

Hierarchical
Relationships

Associative
Relationships

- Links within a Vocabulary: Thesaural Relationships

Relationships and linking are built into Getty vocabularies

simplified
Entity Relationship
Diagram

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

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

Coordinates

Biography
display bio,
birth/death
dates, places

Revision History
editor name,
action, date of
action

- All 5 vocabularies have same core structure
- Tables then added for specific fields

Language

Contributors

Events
event, dates

Sources

Nationality
(ULAN)

PLACE TYPES/ROLES
multiple
place types or roles, one is
flagged preferred, dates

ASSOCIATIVE RELATIONSHIPS
links between subjects,
dates

Source controlled

Relationship Types controlled

Language controlled

Contributor controlled

Nationality controlled

Events controlled

Location controlled

Place Type / Role controlled

The 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

LINKS via thesaurus

AAT

hierarchical

Objects Facet
.. Built Environment
.... Single Built Works
..... <single built works by function>
.... monuments
.... memorial arches
...........triumpha

associative

triumphal processions
triumphal procession
Triumphzug
procession triomphale
processione trionfale
procesion triunfal

triumphal arches
triumphal arch
凱旋門 (紀念性拱門)
kǎi xuán mén
triomfbogen
Triumphbögen
archi trionfali
arcos de triunfo

equivalence

locus/setting for

. TRIVMPF. DER — EDELEN SIGHAFTEN
1548

Relationships and linking are built into Getty vocabularies

Equivalence Relationship

Terms are synonyms

- Links between terms in one record
- *true synonymy*, so meanings are identical or as nearly identical as possible (re. parts of speech, etc.)

- Precision in indexing and retrieval

- Links facilitated by unique IDs

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

LINKS between terms

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Terms:
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  Pref: pref **Type:** D **Lang:** (en) **Con.:** FDA, GCI, VP
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- **凱旋門 Qual:** (紀念性拱門) [1000545314]
  Type: D **Lang:** (zh, Chinese (traditional)) **Con.:** AS

- arco de triunfo [1000415272] Lang: (es) Con.: CDBP-SNPC
- arcs de triomphe [1000777382] Type: D Lang: (fr) Con.: AAT-AD
- arc de triomphe [1000777381] Lang: (fr) Con.: AAT-AD

Equivalence Relationship

Terms carry additional data

- Information associated with the terms allow for linking and classification

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

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LINKS between terms

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- arcs de triomphe [1000777382] Type: D Lang: (fr) Con.: AAT-AD
- arc de triomphe [1000777381] Lang: (fr) Con.: AAT-AD

Relationships and linking are built into Getty vocabularies

Equivalence Relationship

Terms carry additional data

LINKS to other resources

- Linkable to outside resources
- Reference to the resource is provided

AAT_ID: 300132869

Terms:
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- 凱旋門 Qual: (紀念性拱門) [1000545314]
  Type: ~~~~~~~~~~~~ Con ~~
- kǎi x~~~~~~~~~~~~
  Con ~~~~~~~~~~
- kai x~~~~~~~~~~

Sources:
AATA database (2002-) **129984** checked 26 January 2012
Brilliant, Roman Art (1974) index
Candidate term Candidate term - ADAG - 10/1985
Copplestone, ed., World Architecture (1966) glossary
Harris, Illustrated Dictionary of Historic Architecture (2013)
Library of Congress Authorities online (2002-) **sh 85006535**

AAT_ID: 300131~~

Terms:
- triumphal arc~~~~
  Pref: pref Type: D Lang: (en) Con.: FDA, GCI, VP
- **triumphal arches** [1000007003] ual: (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
- 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

Relationships and linking are built into Getty vocabularies

Equivalence Relationship

LOD = How to expedite publication of less
than optimal data?

LINKS – when to ignore them

- Authoritativeness of the Getty vocabularies is warranted by their accuracy and basis in scholarship

- Flag **Rembrandt van Rijn** = Preferred = most commonly used names in published, scholarly or expert resources

- Also include common names, historical names, nicknames, common published misspellings, signatures, etc. = variant names

- Usually avoid unique misspellings or unique archival variants

- However, for Provenance Index LOD, experimented with the *Local Use* flag, names may be ignored by other implementers

- Names found in a unique inventory or sales catalog

- But not a scalable solution; better to retain a local authority and contribute to ULAN the names useful to a broader community

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)
Rimbrant (LU,U)
Rimbrant Van-Rhein (LU,U)
Rinbrant (LU,U)
Rinbraut (LU,U)
Rinebrand (LU,U)
Riombrach (LU,U)

LU = Local Use

Rinbraut (LU,U)
Rinebrand (LU,U)
Riombrach (LU,U)
R. Rhyn (LU,U)
R. van Ryn (LU,U)
Rymbrand (LU,U)
Rymbrandt (LU,U)
Rymbrand Van Ryn (LU,U)
Rymbrant (LU,U)
Rymbrants (LU,U)
Rymbrants Van Ryn (LU,U)
Rynbrandt (LU,U)
Rynbrand van Ryn (LU,U)
Van Rhyn Rembrant (LU,U)
Van-Ryn, dit Rembrandt (LU,U)
Van-Ryn Rembrandt (LU,U)
Van-Ryn Rembrant Fiammingo (LU,U)
V. Rembrants (LU,U)
Wan Rhin, o Rembrandt (LU,U)

ULAN

AAT

Hierarchical Relationship

What are types of hierarchical relationships?

- Hierarchical relationships = broader and narrower (parent/child) relationships between two entities in a thesaurus; 3 types of relationships

- **genus/species** = AAT *triumphal arches* is a **type of** *memorial arches*

- **whole/part** = TGN *Machupicchu* is **part of** *Cuzco (region)*, which is **part of** *Peru*

- **instance** = Getty IA *Penance of Indra* is an **instance of** *<Hindu narratives>*

Hierarchical Relationships

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)

LINKS via hierarchy

AAT

Hierarchical Relationship

Using the polyhierarchy for linking

- Links = preferred parents also non-preferred parents
- E.g., linking *triumphal arches* to *p'ai-lous* as siblings under *ceremonial gates*, as well as under *monuments*

In Hanzhong, Shaanxi Province, China

In Munich, Germany

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]

LINKS via hierarchy

Hierarchical Relationship

LOD= How to expedite publication of less than optimal data in hierarchy?

LINKS – hierarchy for uncertain data

- Linking: How to allow publication of data not fully resolved?
- Due to incomplete information for cataloger or state of scholarship
- E.g., hierarchical levels where specific applicable level is not known
  placed under broader context, *lost & found*
- E.g., *Abaskūn*, a trading port city on the Caspian Sea, 9th-century literary sources = located within area of modern-day Iran – scholars don't know which province

TGN

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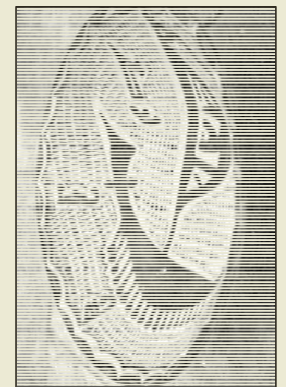
Hierarchical Relationship

How to expedite publication of less than optimal data in hierarchy?

LINKS – hierarchy for uncertain data | ULAN

- *Unidentified named* ... levels used in ULAN and CONA for entities not yet identified
- E.g., ULAN, people and firms contributed by Provenance Index, Witt, Getty Special Collections finding aids, etc.

- Some may be resolved via research or expert crowd sourcing in future

Top of the ULAN list / hierarchy

.... **Unidentified Named People and Firms** (ULAN facet)

.... **Aalen, V.** (unknown artist)

.... **Aalst, C.J.K. van, Dr.** (Dutch owner, fl. 1917-1953)

.... **Aalst, N.J. van** (Dutch owner, fl. 1950s-1960s)

.... **Aalst, van** (Unknown artist, Sale at Dordrecht, 1 November 1802)

.... **Aaron** (British owner)

.... **Aaron et Cie.** (French owner, fl. 1960s -1980s)

.... **Aav** (artist, active 20th century)

.... **Aa, van der** (Owner)

.... **A. Bacon** (Unknown artist)

.... **Abady, Sheila** (artist)

Associative Relationship

Links between records in one vocabulary

LINKS – identifying type of link

AAT

- Relationships between records closely related conceptually, but not hierarchical
- Relationship type is defined

	activity/ event/ [process/ function,	attributes/ associated	field/discipline [in Activities-	genus/ species [others, Living Organisms]	language [in Assoc Con]	locus/ setting [built work, settlement, feature, Built Environ-ment]	material [Mater-ials]	role [people, organizations in Agents; excluding living organisms]	style/ cultur [religio ideolo AC]
things ment, also art genres from AC]	**2427** things – *produced by* – activity/event **2428** activity/event – *produces* – things			**2836- 2837** things - *[are] derived/made from* - genus/species [or its parts] kākaku *are derived/made from* Phormium tenax (species); ostrich-egg cups *are derived/made from* Struthio camelus (species) **2852- 2853** genus/species -	**2881- 2882** language - *[is] reflected in* – things Greek (language) *is reflected in* Greek alphabet; Sanskrit *is reflected in* Vedas	**2208-2209** locus/ setting – *locus setting for* – things on-demand printing *causes/ is required for* on-demand publishing; preserving *causes/is required for* preservation	**2501- 2502** things – *made of/ require* – material obsidian mirrors *are made of/require* obsidian; ivories (sculptures) *are made of/require* ivory **2507- 2508** things – *produce/ process* – material cotton (fiber) *is produced/processed by* cotton gins; groundwater *is produced/processed by*	**2321- 2322** things – *used by* – role violoncellos *are used by* violoncellists; surveying instruments *are used by* surveyors **2325- 2326** things – *created by* – role drawings *are created by* draftsmen;	**2551-** things *are pr* – style Nasca li *reflect/ produc* [culture *reflects by* Juda

activity/ event vase paintings (visual works) *are produced by* vase painting (image making); forgeries *are produced by* forging (copying) **2431- 2432** things – *are required for* – activity/ event painting equipment *is required for* painting (image making); dowels *are required for* doweling **2434- 2435** things – *are*

attributes/ assoc con – *are possessed by/ existing in* – things boudoir (photograph size) *is possessed by/existing in* boudoir photographs; ruined [condition] *is*

field/ discipline – *uses* – things astronomy *uses* astronomical instruments; divination [discipline] *uses* divination objects

Associative Relationship

LINKS – identifying type of link | AAT

Links between records in one vocabulary

activity/ event/ [process/ function,	attributes/ associated	field/discipline [in Activities	genus/ species [others, Living

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 relationship types incorrect

Relationships and linking are built into Getty vocabularies

Associative Relationship

ULAN

Links between records in one vocabulary:
Dates of relationship

LINKS – DATES for link

- E.g., ULAN, reciprocal relationships teacher/student
  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

ID: 500060426
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

The Getty
vocabularies are
linked to each other

- Links between Vocabularies

Links between vocabularies

- Certain data within each Getty vocabulary = controlled through links to other vocabularies

- Even before linking between vocabularies was technically practical, fields controlled by extensible lists from other vocabularies
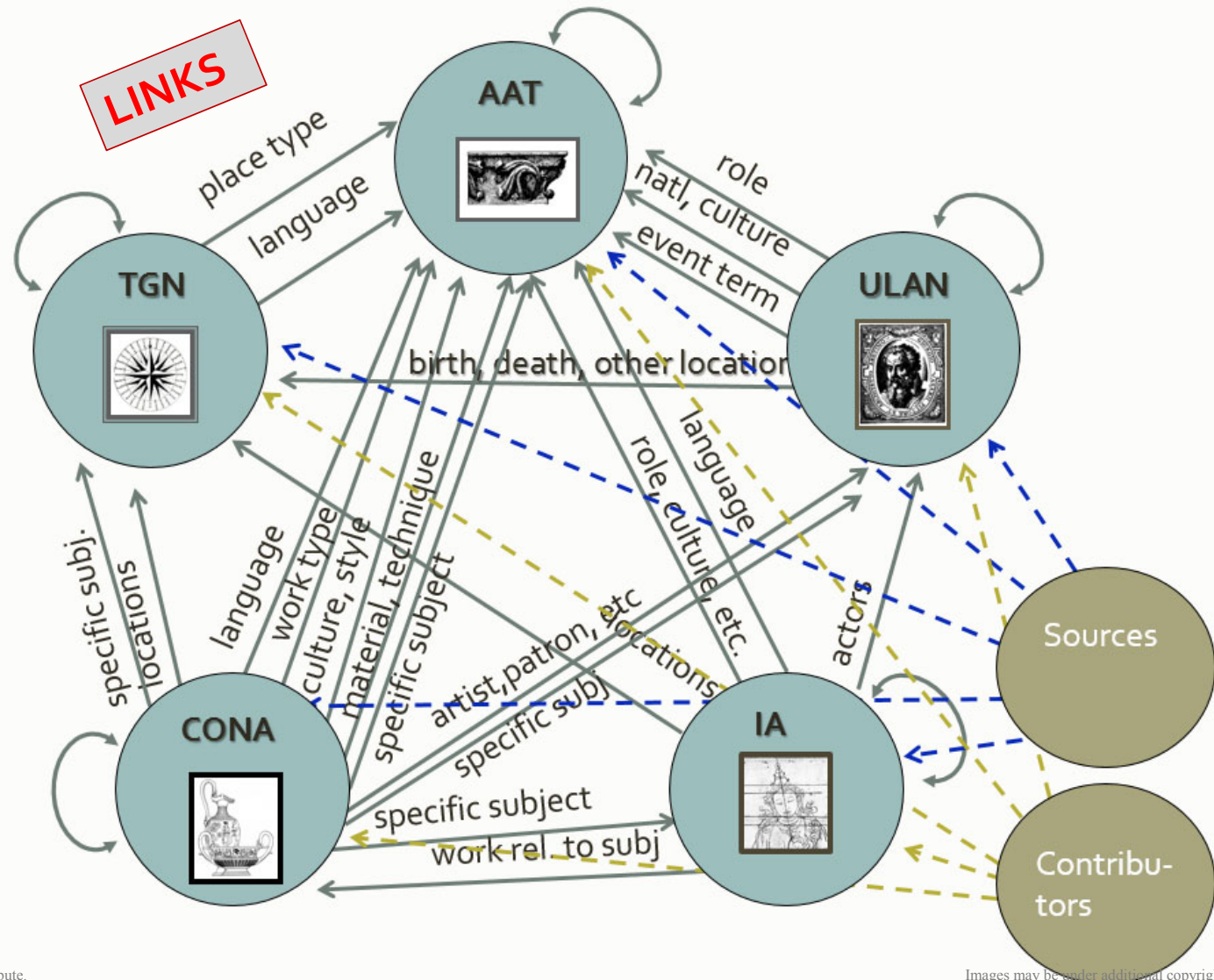
Links between vocabularies

- E.g., **roles** in ULAN (e.g., *artist, watercolorist, portraitist, patron, emperor*) = controlled by *Agents Facet* in AAT

- Going from hand-made lists to LOD required cleaning up inconsistencies
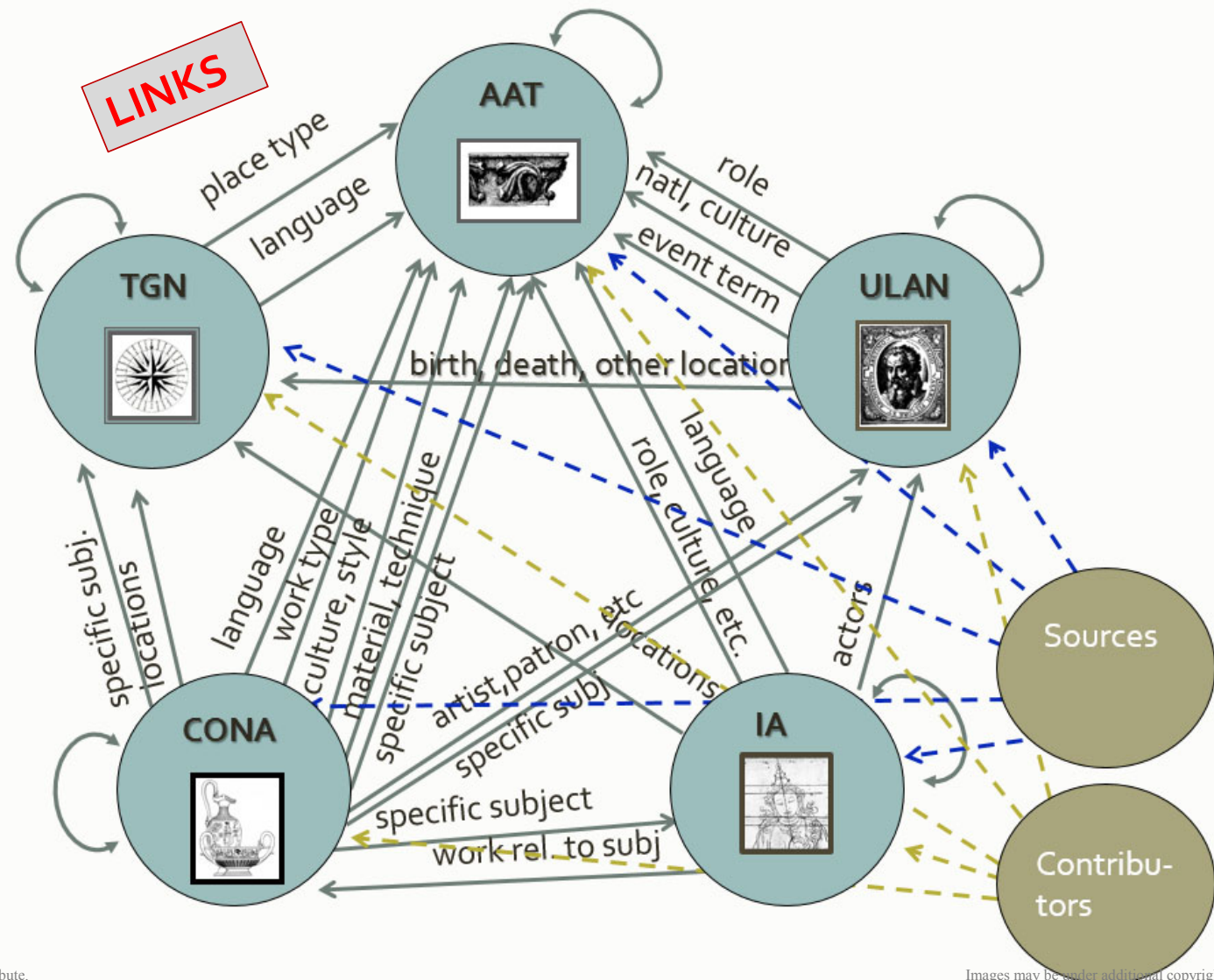
Links between vocabularies

LINKS – controlled lists → links

TGN

	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

AAT record

ID: 300108469
Page Link: http://vocab.getty.edu/page/aat

⊥ **Chinatowns** (neighborhoods, residential

Note: Chinese sections of large towns or citi

Terms:
Chinatowns (**preferred**,C,U,English-P,D,U
Chinatown (C,U,LC,English,AD,U,SN)
中国城 (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
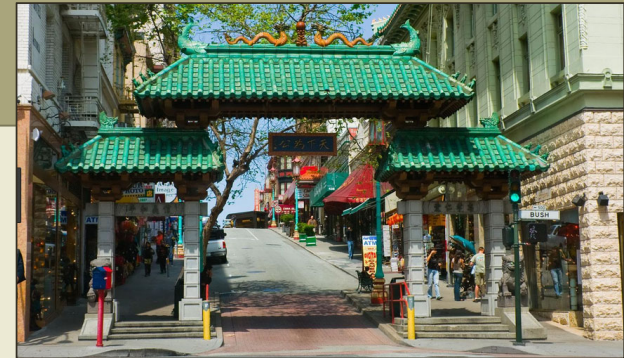
Links between vocabularies

LINKS – controlled lists → links

Many links cannot be made automatically

ULAN Nat. term		AAT _ID match	AAT Term_ID	AAT term
901840	Bavarian	300385972	1000568017	Bavarian
901850	Hamburger			
901860	Hessian	~~300014076~~ *false match*	1000014077	hessian (canvas (textile material))
901870	Thuringian	300105675	1000105675	Thuringian
901880	Saxon	300379686	1000540441	Saxon
901890	Wendish	300263656	1000263656	Wendish
901900	Rhenish	*no match*		
901910	Frankish	300019478	1000019478	Frankish
901920	Merovingian	→ 300019512	1000019512	Merovingian (Germanic style)
	ambiguous match	→ 300210049	1000210134	Merovingian (scripts)
901950	Carinthian	300385997	1000568044	Carinthian
901960	Pannonian			

Links to outside

LINKS

Current and Future Goal:

- Relationships from the Getty vocabularies to other resources within the Getty and outside
- E.g., Provenance Index data

Chinese AAT
Dutch AAT
Spanish AAT
Swiss AAT Project
German AAT
LCSH
VIAF
Arches
Getty Museum
Getty Wide Search
Provenance Index
AATA Online

http://vocab.getty.edu

AAT
TGN
ULAN
CONA
IA
Sources
Contributors
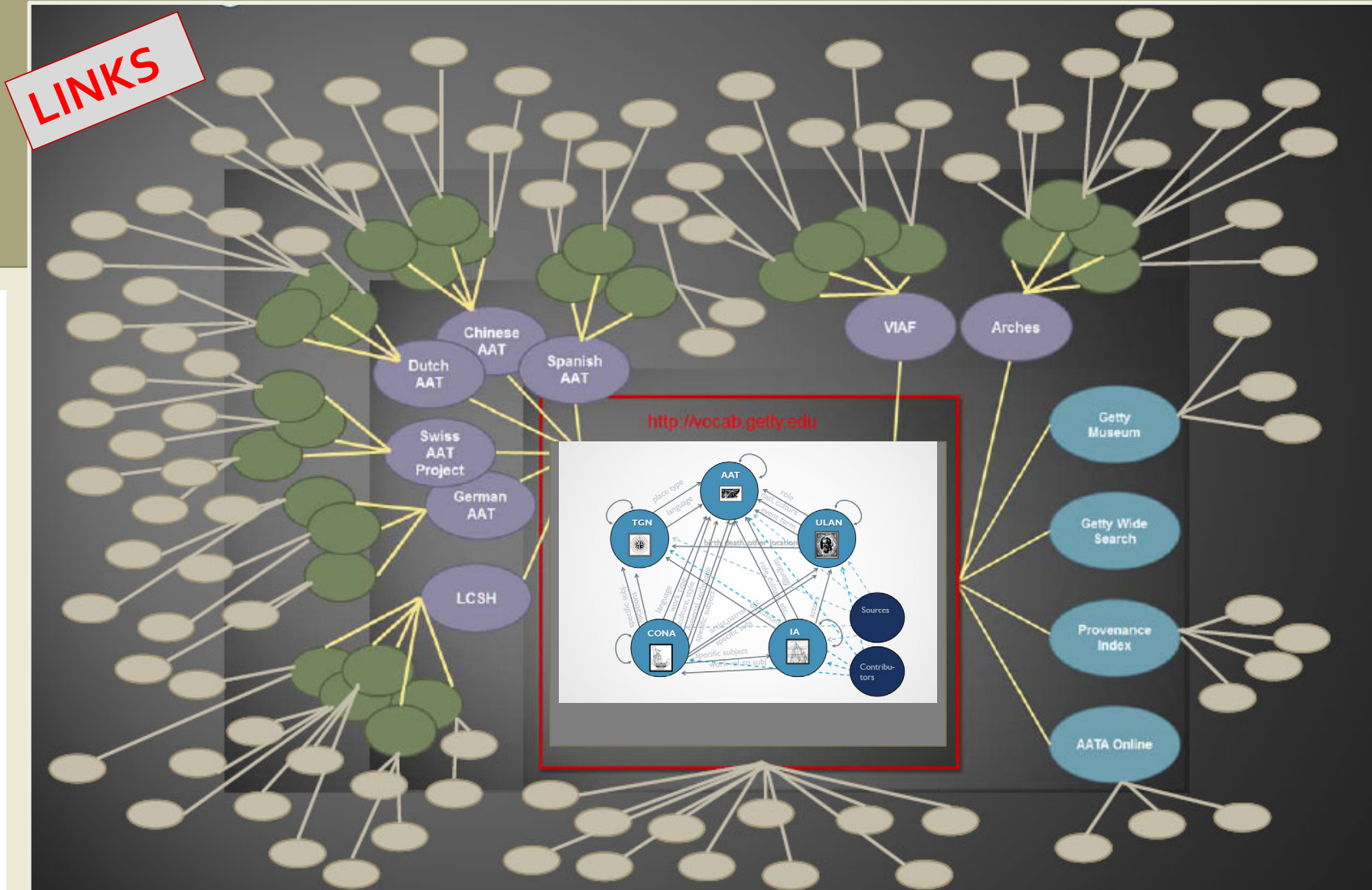
Links to outside

LINKS

- Getty vocabularies accessible in other resources
- E.g., AAT in Chile, Netherlands, Taiwan, Germany
- TGN, ULAN, AAT in collections management systems, etc.

BUSCAR

Tipo de término : ● Todos ○ Preferentes ○ Alternativos

(+) Búsqueda avanzada

FACETA CONCEPTOS ASOCIADOS
- conceptos asociados

FACETA ATRIBUTOS FÍSICOS
- atributos y propiedades

FACETA ESTILOS Y PERIO
- estilos y periodos

Tesauro de Arte & Arquitectura

Fue desarrollado por el Getty Research Insitute (GRI), un programa operativo de The J. Paul Getty Trust, y traducido en español por el Centro de Documentación de Bienes Patrimoniales.

AAT es marca registrada de The J. Paul Getty Trust. Esta base de datos es usada bajo licencia del The J. Paul Getty Trust.

trenzado doble es

warp twining en

🔗 **GETTY ID: 300228544**

NOTA DE APLICACIÓN
Técnica de tejido de textiles en la cual dos o más extremos de la urdimbre se enrollan entre sí al mismo tiempo que se entrelazan con la trama.

TÉRMINOS ALTERNATIVOS

tapiz

Lucie-Smith, Edward, 1997, "Diccionario de Términos de Arte"

Links to outside

LINKS

- Various institutions have linked to Getty vocabularies
- E.g., Te Papa, MoMA https://github.com/MuseumofModernArt/collecton Gilcrease Museum https://collectons.gilcrease.org/object/1526167

MUSEUM OF NEW ZEALAND
TE PAPA TONGAREWA

VISIT Toro mai
DISCOVER THE COLLECTIONS Tūhuratia ngā kohinga
LEARN Ako

ABOUT Mo matou
SHOP Wharehoko
SUPPORT & JOIN Tautokotia, kuhu mai

Collections Browse 800 taonga, pho objects, and zoological s Papa's colle About Colle

<textile construction processes and techniques>

twining

Category details

Category	twining
Alternative terms	twined
Source	Art & Architecture Thesaurus

Overview

Textile process involving twisting two or more active strands together as they interlace with another set of strands laid in p
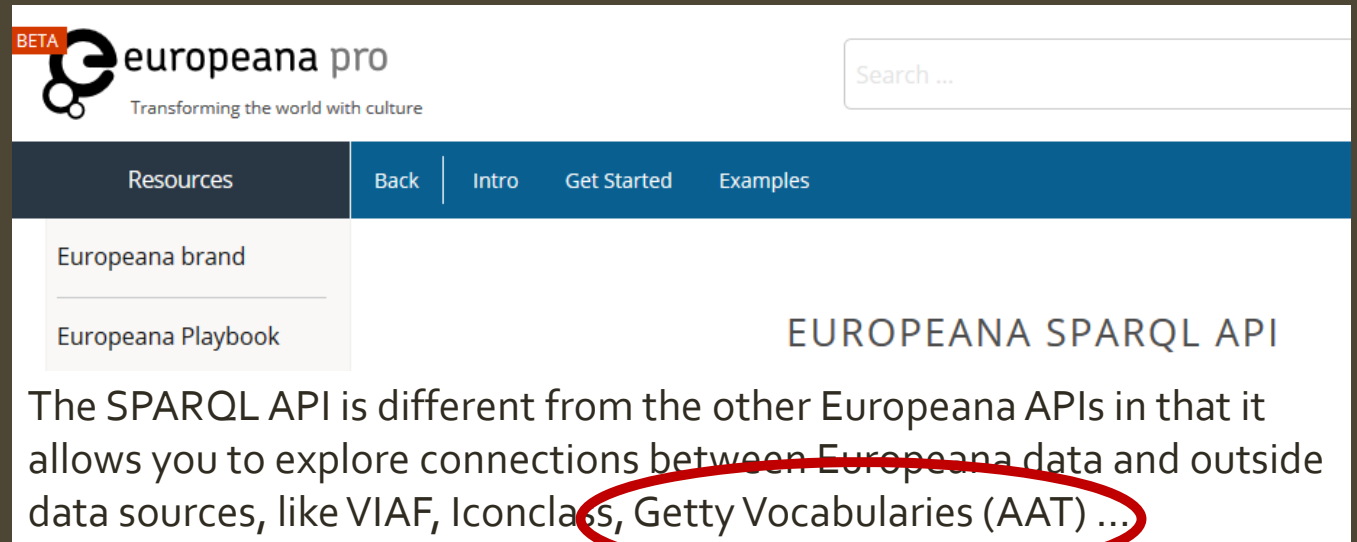
Name	Korowai ngore (cloak)
Production	Unknown; weaver; New Zealand
Classification	cloaks, costume
Materials	muka, wool
Material Summary	muka, wool
Techniques	twining
Dimensions	Overall: mm (length)
Registration Number	ME011997

twining

Links to outside

- Examples of aligning or co-referencing Getty vocabularies

- https://pro.europeana.eu/page/europeana-aat

- The Ariadne project http://www.ariadne-infrastructure.eu/Resources/AAT/Mappings-to-AAT

BETA **europeana pro**
Transforming the world with culture

Search ...

| Resources | Back | Intro | Get Started | Examples |

Europeana brand

Europeana Playbook

EUROPEANA SPARQL API

The SPARQL API is different from the other Europeana APIs in that it allows you to explore connections between Europeana data and outside data sources, like VIAF, Iconclass, Getty Vocabularies (AAT) ...

Background
on CONA

Update on CONA

- About CONA

What is CONA

Names/titles and other information about many types of works, built and unbuilt, historical and current, extant and destroyed, groups and items

LINKS and RELATIONSHIPS

- **Thesaural relationships**, equivalence, associative, hierarchical

- **Powerful links and relationships** within a CONA, between CONA records, and to the other Getty vocabularies

Sample record

CONA ID: 700000141

Titles/Names:

Hagia Sophia (en)
Ayasofya (tr)
Αγία Σοφία (el)
Agia Sofia
Agia Sophia
Haghia 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)   **AAT**
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)   **ULAN**

LINKS

Locations: **TGN**
Current: İstanbul (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   **AAT**
Dimensions: central dome: diameter 31 meters (102 feet); height 56 meters (184 feet)
Styles:
Byzantine | Ottoman   **AAT**

General Subject:
architecture *Type:* isness
religion and mythology *Extent:* purpose
Specific Subjects:
Holy Wisdom (Christian allegory)

AAT
TGN
ULAN
CONA
IA

Contributors:
VP; BWR
Sources: Maidstone, Hagia Sophia (1988); Built Works Registry database (2015-) BWR3782560; Fleming, Penguin Dictionary of Architecture (1999); Theoharidou, Architecture of Hagia Sophia (1988); UNESCO World Heritage Centre [online] (1992-) C356

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

- Compiled in CONA 9,000 of records to represent many types of works and relationships in order to test hypotheses about content, required fields, editorial guidelines, data model
  1300 records from GRISC
  3700 records from JPGM
- Now analyzing how CONA can be most useful for GRI and beyond
  decisions being considered by Digital Initiatives section (headed by **Anne Helmreich, Associate Director**)
- Development driven by needs of GRI projects and community, several possibilities
- Contributors:
  Built Works Registry, etc.

Sample record

CONA ID: 700000141

Titles/Names:

Hagia Sophia (en)
Ayasofya (tr)
Αγία Σοφία (el)
Agia Sofia
Agia Sophia
Haghia 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:
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Mat & Tech: system bearing masonry, centralized plan; ashlar and brick; interior surfaces are sheathed with polychrome marble, porphyry, and   AAT
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Dimensions: central dome: diameter 31 meters (102 feet); height 56 meters (184 feet)
Styles:
Byzantine | Ottoman   AAT

General Subject:
architecture _Type:_ isness   AAT
religion and mythology _Extent:_ purpose   TGN
Specific Subjects: ULAN
Holy Wisdom (Christian allegory)   CONA   IA

Contributors:
VP; BWR
Sources: Maidstone, Hagia Sophia (1988); Built Works Registry database (2015-) BWR3782560; Fleming, Penguin Dictionary of Architecture (1999); Theoharidou, Architecture of Hagia Sophia (1988); UNESCO World Heritage Centre [online] (1992-) C356

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

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")

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)

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)

Works depicted in visual surrogates

Possible implementations of CONA

Development would be driven
by needs, if any, of PhotoTech project

(Records linked to CONA, not necessarily ingested)

CONA_ID: 700008694   Class.: paintings

Surrogate in GRI Photo Archive

Velázquez et al copy in the Uffizi after Rubens

CONA_ID:
Titles:
Work Types: study photograph [300403973]
Creatio
Creator
   a
painter
[50000
Locatio
Repository
Display Ma
Dimension
General Su
Specific Su
   E
copy after I
List/Hierarc
..... Visual S
.... Stud
Sources an
[VP]
 GRI Photo

LINK

specific
subject

- Relationship for subjects
  may be one way
- Associative Relationships
  are reciprocal

Potential CONA project
- CONA as resource for works
  depicted in visual surrogates
  or in other works
- GRI Photo Archive = capture
  information about massive
  Photo Archive collection

Works depicted in visual surrogates

Surrogate in GRI Photo Archive

Velázquez et al copy in the Uffizi after Rubens

LINKS

specific subject

- Relationship for subjects may be one way
- Associative Relationships are reciprocal

Potential CONA project
- CONA as resource for works depicted in visual surrogates or in other works
- GRI Photo Archive = capture information about massive Photo Archive collection
- Investigate possibly Pharos application ? (pharosartresearch.org, an international photo archive project)

Works depicted in visual surrogates

- What is advantage to linking to CONA for work depicted?
- Access for all surrogates for same work
- Multilingual access, links, etc.

Surrogate in GRI Photo Archive

Velázquez et al copy in the Uffizi after Ruben...

LINKS

specific subject

CONA_ID: 700008694   Class.: paintings
Titles: Equestrian Portrait of Philip IV
              Filippo IV, re di Spagna
              Felipe IV a caballo
Work Types: painting (visual work)   AAT
Creation Date: ca. 1645
Creator Display: Diego Velázquez and assistants;
after Peter Paul Rubens, now lost   ULAN
Locations: Galleria degli Uffizi (Flore...ze
province, Tuscany, Italy) [500125191]   TGN
Repository Numbers: 1890:792   ULAN
Address Note: Room 41: Ruben...
Display Materials: oil on canvas
Dimensions: 338 x 267 cm   AAT
General Subject: portraits
Specific Subjects:
        equestrian portrait [300403976] (AAT)   AAT
        Philip IV, King of Spain (Spanish king,
        1605-1665) [500282775] (ULAN)   ULAN
Related Works:
        pastiche copy after .... Equestrian Portrait
        of Philip IV [700008695] painting (visual
        work); Peter Paul Rubens; now lost;
        1628-1629
Sources and Contributors:
[VP] [GRIPA]
.... Fossi, Uffizi Gallery (2001)   CONA
.... GRI Photo Archives database (1974-)

Enough information in surrogate records to make minimal record for work depicted

Works depicted in visual surrogates

Possible implementations of CONA

- Photograph in Photo Archive depicts a painting, which in turn is a copy after a lost painting
- Rubens' original painting was destroyed in the fire at the Royal Alcázar of Madrid in 1734

Surrogate in GRI Photo Archive
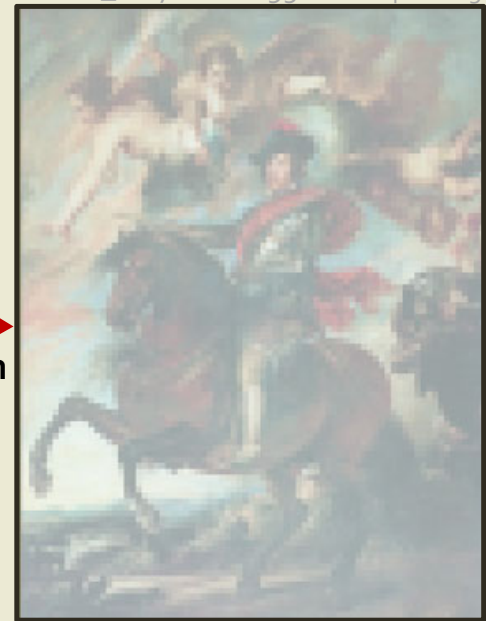
Velázquez et al copy in the Uffizi after Rubens

lost painting by Rubens

CONA_ID: 700008695   Class.: paintings

LINK

specific subject

LINK

depicts
depicted in

Possible implementations of CONA

architectural documents at GRI

Movable works linked to architecture depicted

Development would be driven by needs, if any, of GRI

LINKS

preparatory for

based on

depicts

depicted in

CONA ID 700000120
Work Type: architectural drawing
Title:
Cre
Cu
Co
Ca
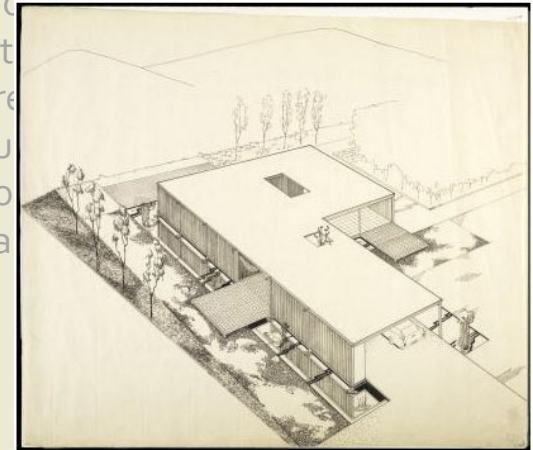
CONA ID 700008539 Work Type:
ph
Ti
Cr
Cu
Co
Ar
26

CONA ID 700000090   Class. architecture
Work Type: house
Title: Case Study House No. 21
Title: Bailey House Title: CSH #21
Creator: architect: Pierre Koenig
Creation Date: 1956-1958; renovated 1998
Dimensions: 1 story, 1320 square feet, 4 rooms and 2 baths, on a 110 x 160 foot lot
Mat & Tech: steel frame and flat roof deck
Current Location: Los Angeles (California, USA) Address Note: 34.116634 - 118.391623; 038 Wonderland Park Avenue, Hollywood Hills, Los Angeles, 90046

Possible implementations of CONA

prints at GRI

Movable works linked to destroyed work

Destroyed, ephemeral triumphal arch

CONA ID 700001288 Class.: architecture
Work Type: triumphal arch
                (memorial arch)
Title: Arc de Triomphe du Trône
Location: Paris (France)
Creator: based on designs by Charles Perrault (French architect, 1613-1688), built by Claude Perrault (French architect, physician, scientist, 1613-1688)
Date: begun 1670, demolished 1716
Materials: stone and plaster
Dimensions: unavailable
General subject: architecture
Type: isness
Specific Subject: Louis XIV
Extent: honoree
ephemeral structure   Extent: purpose

LINKS

depicts

depicted in

depicts

depicted in

CONA ID 700001650

CONA ID 700001650

Possible implementations of CONA

LINKS

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

Can also record works at a repository for exhibitions

Works in databases that are being retired, e.g., Art on Screen

---

- Works deaccessioned and deleted from repository database

  Locations:
  Current: Museo archeologico (Aidone, Sicily, Italy)
  　Repository Numbers: unavailable
  Former: J. Paul Getty Museum (Los Angeles, California)
  　Repository Numbers: former : 85.AD.105
  Creation: Morgantina (Sicily, Italy)

CONA ID 700006607 Work Type: sculpture
T　　　　　　　　es
C　　　　　　useo Archeologico di Aidone
L　　　　　　Paul Getty Museum
D　　　　　　Morgantina, Italy
D　　　　　　BCE
M　　　　　　and polychromy
D　　　　　　8 1/16 x 7 5/16

- Works in exhibitions, not owned by repository hosting the exhibition

  E.g., loaned to JPGM from Kröller-Müller Stichting (Otterlo, Netherlands)

CONA ID 700009210 Work Type: painting
ID　　　　　　　ype: Movable Work
In
A　　　　　　(panel painting (painting
b　　　　　　o (Italian, 1403-1482);
2　　　　　　Kröller-Müller Stichting
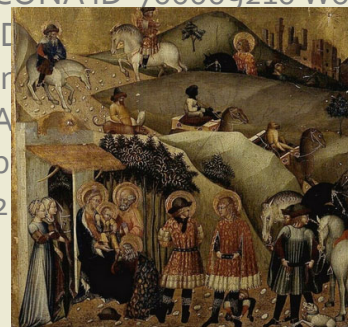
- Film about art, in retired STAR *Art on Screen* DB

- *E.g., Palette of Glass, film about Chagall's America Windows*

CONA ID: 700009505 Work Type: film
P　　　　　　rican Windows
o　　　　　　work); director,
p　　　　　　; features Marc
C

Let's consider important linking characteristics of CONA that could be interesting for research and discovery in future

Title: *Grottes de Mogao*
Title: 莫高窟
Record Type: built work **Catalog Level:** complex **Classification:** architecture
Work Type: complexes (buildings)
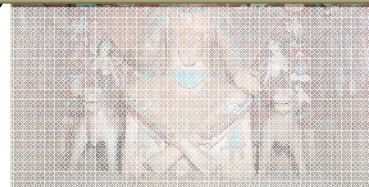**Creator:** various artists
Date: 4th to the 14th century
Location: Mogao caves (ancient site) (Dunhuang, China)
Desc. Note: 492 cells and cave sanctuaries in Mogao are famous for statues and wall paintings, spanning 1,000 years of Buddhist art.
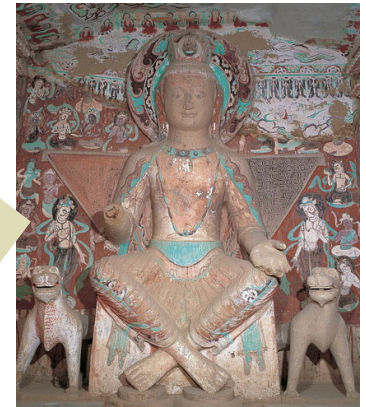
AAT

TGN

Hierarchical Relationship

Title: *Mogao Cave 275*
room, space

architectural context is

Associative Relationship

Title: *Buddha from Cave 275*
a sculpture

Possible implementations of CONA

CONA has thesaural relationships: equivalence, hierarchical, associative

.... **Built Works by class: religious, ceremonia**
.... **Mogao Caves**
.... **Mogao Cave 158**
.... **Mogao Cave 16**
.... **Mogao Cave 17**
.... **Mogao Cave 275**

LINKS

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

AAT

TGN

Hierarchical Relationship

Title: *Mogao Cave 275*
room, space

architectural context is

Associative Relationship

Title: *Buddha from Cave 275*
a sculpture

Movable works linked to destroyed work

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

Proposed reconstruction of Asciano Altarpiece

LINKS

.... **Asciano Altarpiece**
.... **Archangel Gabriel** [N]
.... **Assumption of the Virgin** [N]
.... **Saint Agatha and Saint Lucy** [N]
.... **Saint Augustine** [N]
.... **Saint Jerome** [N]
.... **Saint Michael the Archangel** [N]
.... **Saint Monica praying for the conversion of her son Augustine** [N]
.... **Saint Nicholas of Bari** [N]
.... **Virgin Annunciate** [N]

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.

Movable works linked to unrealized work

Possible implementations of CONA

J R Pope's designs for
pyramidal Lincoln Memorial, Washington DC

CONA ID 700008523

LINKS

architecture never built

CONA ID 7000xxxx

designs for

based on

Movable works linked to conceptual work

Conceptual works
Multiples, Series of works

Single print cataloged as an item
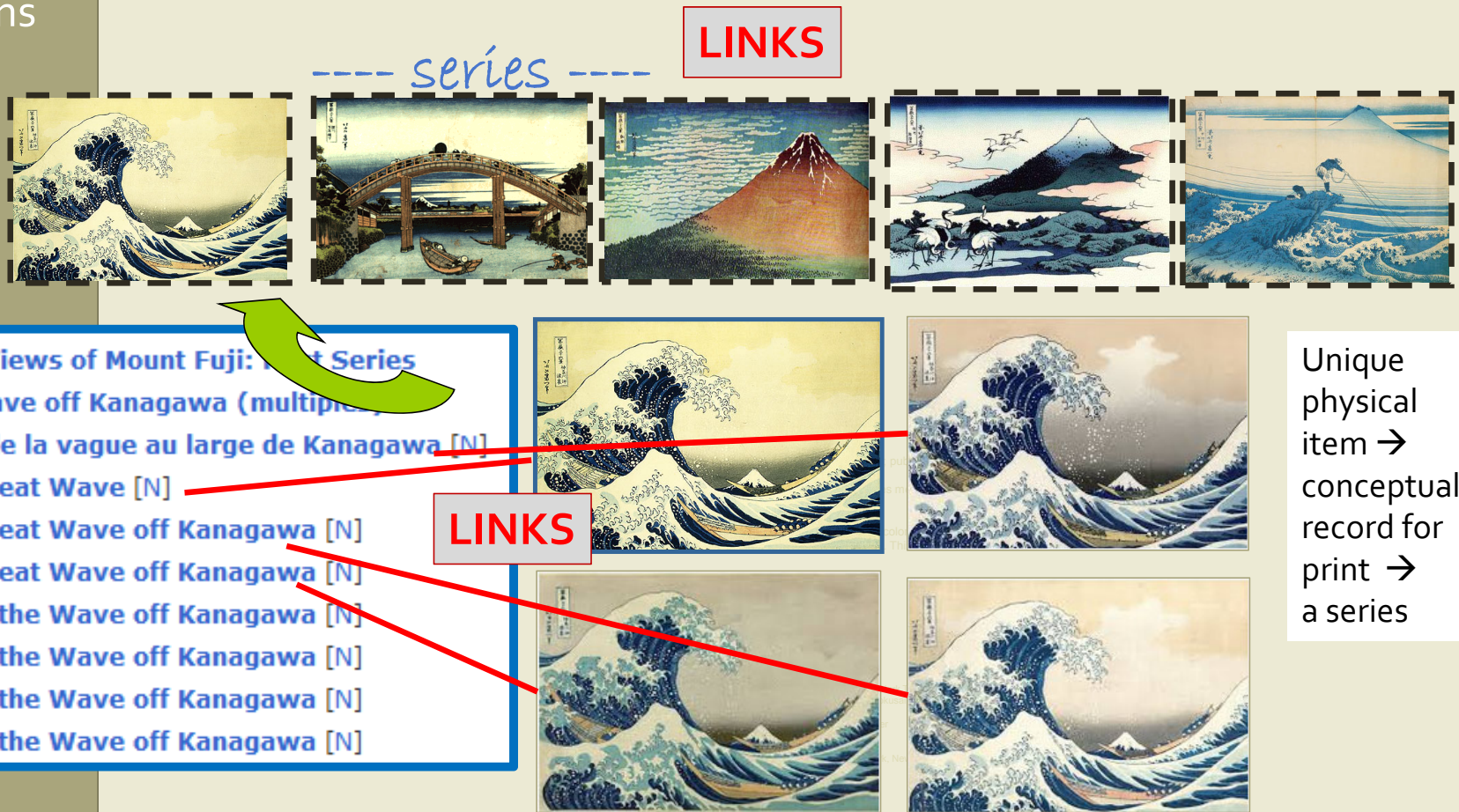
CONA ID 700000091 Cat. Level: item   Class:

- Print at a museum or special collection is cataloged as an item

- Unique physical item = linked to conceptual record
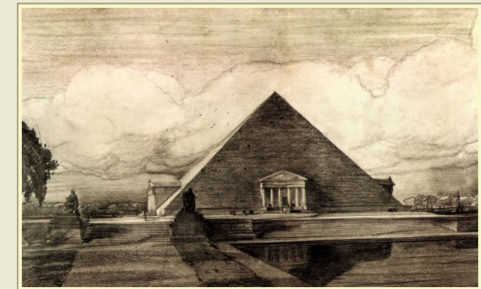
Possible implementations of CONA

Movable works linked to conceptual work

LINKS

---- series ----

Thirty-six Views of Mount Fuji: First Series
Great Wave off Kanagawa (multiple)
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]
Under the Wave off Kanagawa [N]
Under the Wave off Kanagawa [N]
Under the Wave off Kanagawa [N]

LINKS

Unique physical item → conceptual record for print → a series

Works linked to Getty vocabularies

Value added: Contributions to CONA are reconciled with the Getty vocabularies

Possible implementations of CONA

reconcile contributors' data, return a copy to contributor

CONA record

LINKS

CONA ID: 700002850
Catalog Level item
Classification vessels

AAT

Work Type vase
Title Blue and White Glazed Globular Vase
明 永樂 青花龍紋天球瓶
Creator unknown Chinese

ULAN

Creation Date 1403/1424 CE
General Subject utilitarian objects
Specific | animal | dragon
Current Location National Palace
Museum (Taipei, Taiwan)
Repository Number: 012547N000000000

AAT
TGN
ULAN
CONA
IA

ULAN

Dimensions 42.9 cm high and 9.7 cm
diameter; foot diameter 15.8 cm
Mat & Tech: blue and white porcelain
| porcelain (material) | blue-and-white (ceramic glaze)

AAT

AAT record

ID: 300132254

vases (vessels (containers), <containers by form>, ... Furnishings and Eq

Note: Vessels of varying shape and size but which are usually taller than they
form and use. In modern usage, typically refers to vessels for displaying flowe
often refers to any ceramic or metal vessel in a range of shapes and used to h
substanc

Terms:

vas

vases (**preferred**,
(French-P,D,
vase (C,U,English,A
(French,AD,U,

花瓶 (C,U,Chinese (in)-P,UF,U,U)
陶瓶 (C,U,Chinese (ut tones)-P,UF,U,U)
huā (C,U,Chinese (s)-P,UF,U,U)
huā
huā
vaz
vaa **huā píng** (C,U,Chin
vas **hua ping** (C,U,Chin
vas **hua p'ing** (C,U,Chin
vas
flo **vazen** (C,U,Dutch-P
Facet/H **vaas** (C,U,Dutch,AD
vasos (C,U,Spanish
Hierarch Name) (G)
vaso (C,U,Spanish,

Works linked to outside resources

Merging information from multiple contributors

- CONA ID uniquely identifies the work in CONA
- Links to other IDs, such as LOC, VIAF, BWR

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 300011176]
Style: Chinese [AAT 300018322] | Taoist [AAT 30014366
Contributors JPGM VP GRISC 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-)

LINKS

Possible implementations of CONA

CONA ID: <u>700000178</u>
Catalog Level item
Classification paintings
Work Type panel painting | altarpiece
Title Adoration of the Magi
<u>Adorazione dei Magi</u> **(repository title)**
Creator Bartolo di Fredi (Sienese painter, active by 1353, died 1410)
Creation Date [display]
<u>1380s/1390s; some scholars date it ca. 1400 or later</u>

<u>**execution**</u>   **Start Date 1380 End Date 1399**
<u>**alternative date**</u>   **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** <u>no. 104</u>
Dimensions 195 x 158 cm (76 x 61 5/8 inches)
Mat & Tech tempera on panel   **LINKS**
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); Harpring, Bartolo di Fredi (1992)

- E.g., Opinions on the date may vary

Possible implementations of CONA

Collocates IDs for this unique work
Link back to site, to LOD, or other resource for the same work

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);
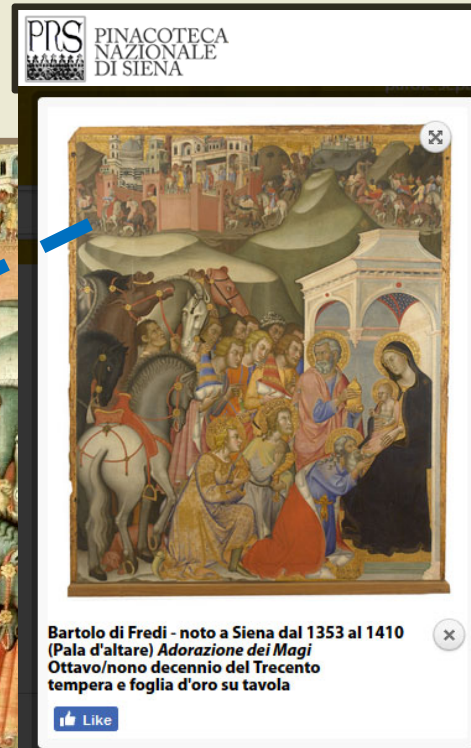**Repository No** **no. 104**
Dimensions 195 x 158 cm (76 x 61 5/8 inches)
Mat & Tech tempera and gold leaf on panel
Contributors BHA VP CD PNS GRI-PA
Sources Pinacoteca Nazionale di Siena (2002-); Boucher and Fiorini, Magi Reconstructed (2012); Cole, Sienese Painting (1985); Freuler, Bartolo di Fredi (1994); Harpring, Bartolo di Fredi (1992)

LINK to repository data

PRS PINACOTECA NAZIONALE DI SIENA

Bartolo di Fredi - noto a Siena dal 1353 al 1410 (Pala d'altare) *Adorazione dei Magi* Ottavo/nono decennio del Trecento tempera e foglia d'oro su tavola

Like

Works linked to subjects depicted

Value added: Contributions to CONA may be indexed for subject depicted access

OCLC survey, of core fields missing is <u>subject depicted</u>
Mining titles and text for subjects depicted, missing from museum data
Controlled by AAT, ULAN, TGN, CONA, and IA

Possible implementations of CONA

LINKS

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]

Examples in CONA and IA

Examples in CONA

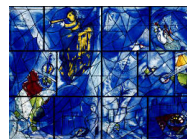*Arc de triomphe de Loüis XIV a la porte St. Antoine* (*print – with link to built work*) http://vocab.getty.edu/page/cona/700001650

Case Study House 21 (*architectural drawing – with link to built work*): http://vocab.getty.edu/page/cona/700000120
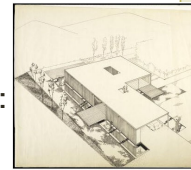
Equestrian Portrait of Philip IV (*study photograph – link to work depicted**) http://vocab.getty.edu/page/cona/700008701

Palette of Glass (*Art on Screen*): http://vocab.getty.edu/page/cona/700009505

Florentine Codex (*subject of research*): http://vocab.getty.edu/page/cona/700009561

[**Example in IA**] Xibalba: http://vocab.getty.edu/page/ia/901000045

Cultural Objects Name Authority® Online

Search CONA ? Help

Find Title or ID: [____] Search

Work Types: [____] Clear
AAT Lookup

Creator, etc.: [____]
ULAN Lookup

Material: [____]
AAT Lookup

Location/ [____] number [__]
Repository:
ULAN Lookup

Geographic: [____]
TGN Lookup (Does not include works in repositories)

Creation Date   start year   end year
Range: [____]   [____]

General Subject: [____]
Lookup

Specific Subject: [____]

AAT Lookup ULAN Lookup TGN Lookup IA Lookup

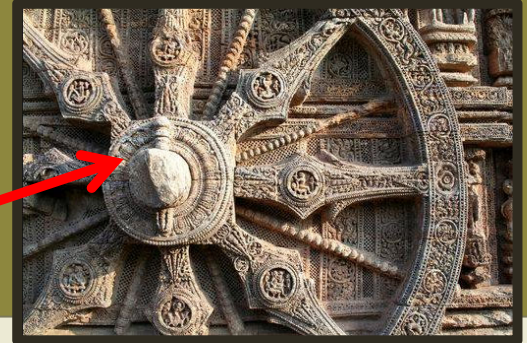**Search the Iconography Authority (IA)**

Iconography: [____]

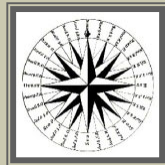Browse IA hierarchies

What comes next?

- Conclusion

Conclusion

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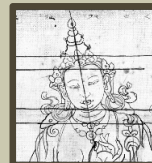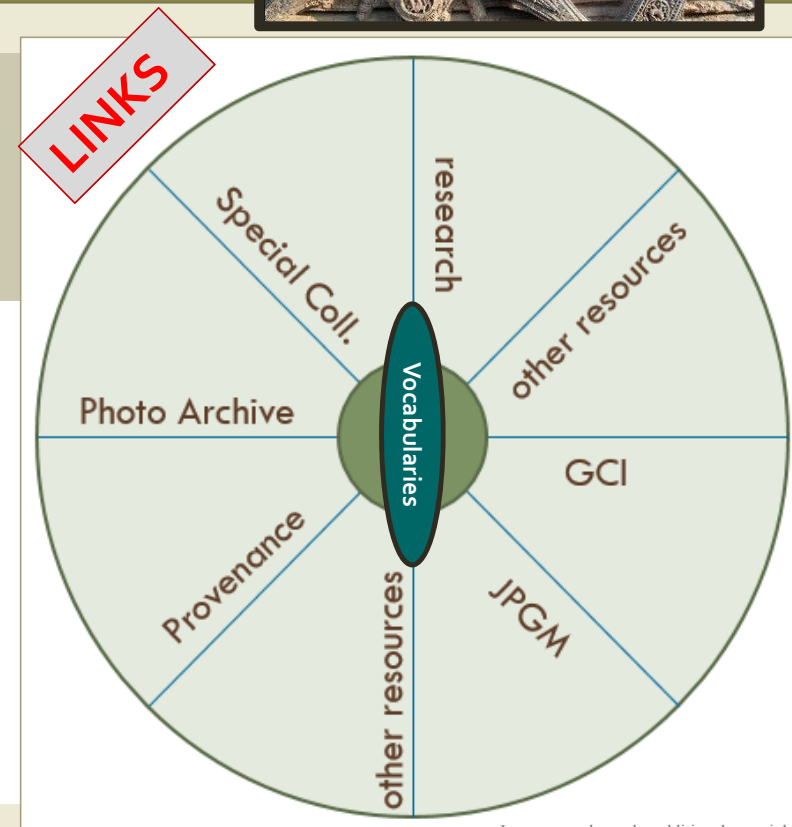

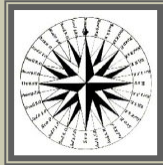AAT   TGN   ULAN   IA   CONA

- The Getty vocabularies are used to link to each other and to Getty resources and outside resources

LINKS

research
other resources
GCI
JPGM
other resources
Provenance
Photo Archive
Special Coll.
Vocabularies

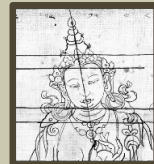# Conclusion

AAT   TGN   ULAN   IA   CONA

- The Getty vocabularies are constructed to allow their use in linked data

- Releasing the Getty vocabularies as Linked Open Data = transformative effect on research

- **Digitizing data does not necessarily ensure that it will be usable or used**

- Continue to investigate optimizing and exploiting the power of the Getty vocabularies
- Working with the broader user community to improve possibilities for research and discovery
- Look for: possibly **Reconciliation Tools**; **LOUD** ("usable"); **Linked.Art** (exchange format)
  [Getty Digital]

Patricia Harpring
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