

THE GETTY VOCABULARIES AND LINKED OPEN DATA: INTRODUCTION AND EDITORIAL PERSPECTIVE

CIDOC: Tuesday, 9 September 2014

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Getty vocabularies to LOD: Editorial perspective

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

Presenters:

14:00 Welcome

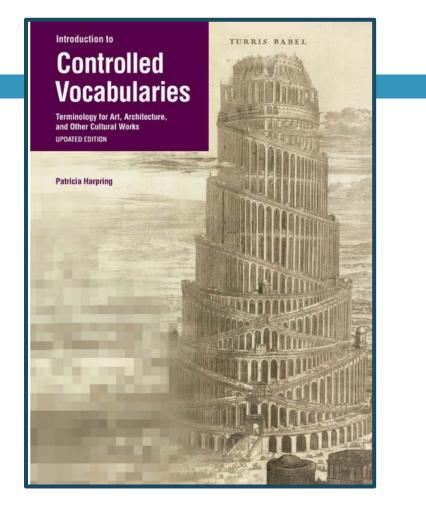
- **14:15 Patricia Harpring,** Managing Editor, Getty Vocabulary Program, Getty Research Institute
- 14:30 Joan Cobb, IT Specialist Project Manager, Information Technology Services, J. Paul Getty Trust
- **14:45 Gregg Garcia**, Software Architect (Lead Developer), Information Technology Services, J. Paul Getty Trust
- 15:00 Vladimir Alexiev, Head, Data and Ontology Management, Ontotext
- **15:15** Questions
- 15:30 Adjourn

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

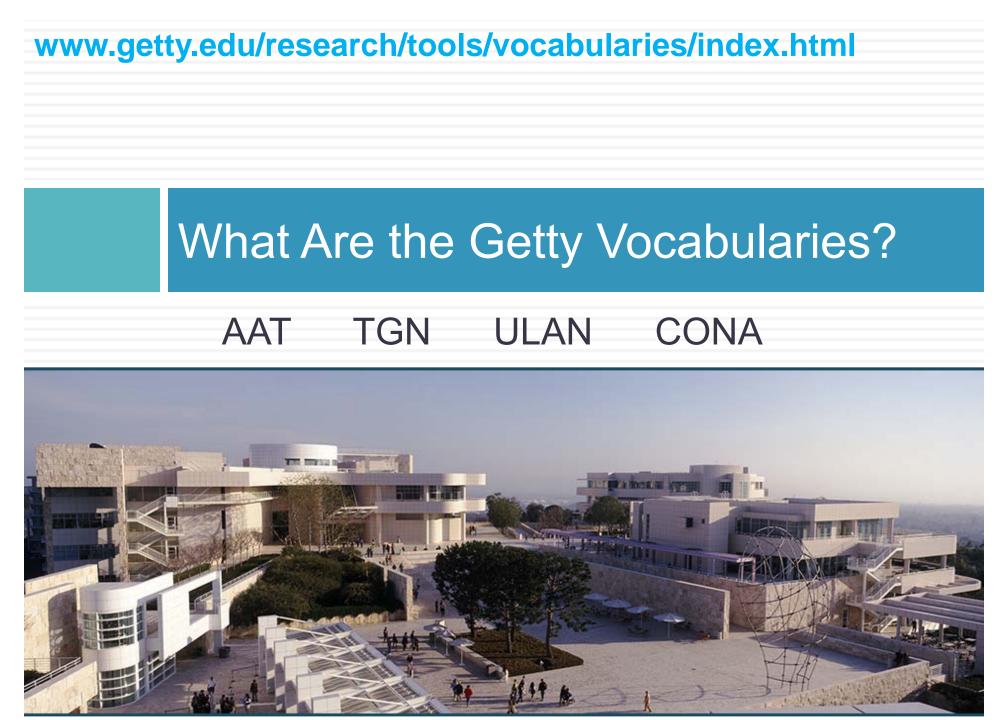
- [Please save your questions for the end, after all four presentations]
- My presentation will be followed by three presentations concerning technical issues and solutions arranged in order of increasingly technical material
- Don't worry if you miss something:
- Slides will be posted on the CIDOC site and the Getty vocabulary "Training Materials" page
 www.getty.edu/research/tools/vocabularies/training.html

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

- These presentations are not primers on controlled vocabularies nor on what is LOD
- They focus on issues surrounding the Getty vocabularies specifically
- For basic information on vocabularies, see *Introduction to Controlled Vocabularies* (Harpring, revised 2013) and its bibliography

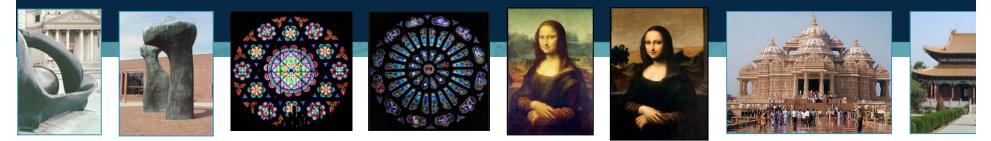


 For basic information on what is LOD, see this Europeana video <u>http://vimeo.com/36752317</u>. World Wide Web Consortium (W3C) Glossary: <u>www.w3.org/TR/ld-glossary/</u>



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What are the Getty vocabularies?

- Catherine wheel or rose window? Mona Lisa or La Gioconda?
- The AAT, TGN, ULAN and CONA contain multilingual terminology and other related data to describe
 - visual art, architecture, other cultural heritage works, conservation, archaeology, archival materials, visual surrogates, and related bibliographic materials

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

- Getty vocabularies are valued as authoritative
 - Grow through contributions from experts
 - Contributors and sources are cited
- Compiled, merged, edited, and published by the Getty Vocabulary Program and our talented, tireless technical team
- Data is made available in various ways: via online searching; relational tables, XML format, Web services APIs
 - Now as Linked Open Data: structured and published to make it openly accessible and shareable on the Semantic Web
 - Open Data Commons Attribution License (ODC-By) v1.0
 - Allows sharing, creation, adaptation of data with attribution

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- Getty vocabularies are thesauri compliant with national (NISO) and international (ISO) standards for thesaurus construction
- □ They are compliant with / map to other standards:
 - CDWA (Categories for the Description of Works of Art)
 - CCO (Cataloging Cultural Objects)
 - VRA Core (Visual Resources Association core categories)
 - LIDO (Lightweight Information Describing Objects)
 - CIDOC CRM (CIDOC Conceptual Reference Model) (ISO 21127:2006)
 etc.

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

- Among the features that allow the Getty vocabularies to be used in cataloging, retrieval, and linking are the following:
 - Each Getty vocabulary records and terms are identified by unique numeric IDs
 - The Getty vocabularies are linked to each other
 - The Getty vocabularies share a core data structure

Scope and Content of the Getty Vocabularies

AAT TGN ULAN CONA



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amfoor

amphorae arc-boutant brittleness Buddhism calligraphy emulsifier façades flying buttress 飛扶壁 lithographer litógrafos luchtbogen orthogonal plan Macedonian millwork Rinascimento stupa Sturzbecher travertine weft wrapping yastiks zeppelin Zigula zinc oxide



AAT, the Art & Architecture Thesaurus®

Generic terms for describing art and architecture (decorative arts, other material culture, visual surrogates, archival materials, archaeology, and conservation) (e.g., *oil paintings, Baroque, lithographers, sintering*). Current totals: 36,000 records; 245,000 terms

- AAT is multilingual; large translation projects are underway
- Conceptually organized from terms to describe abstract concepts to generic terms for concrete, physical artifacts
- Facets are the upper levels of the AAT structure
- AAT is not organized by subject matter or discipline

Associated Physical Styles and Concepts Attributes Periods

ana Agents

ts Activities

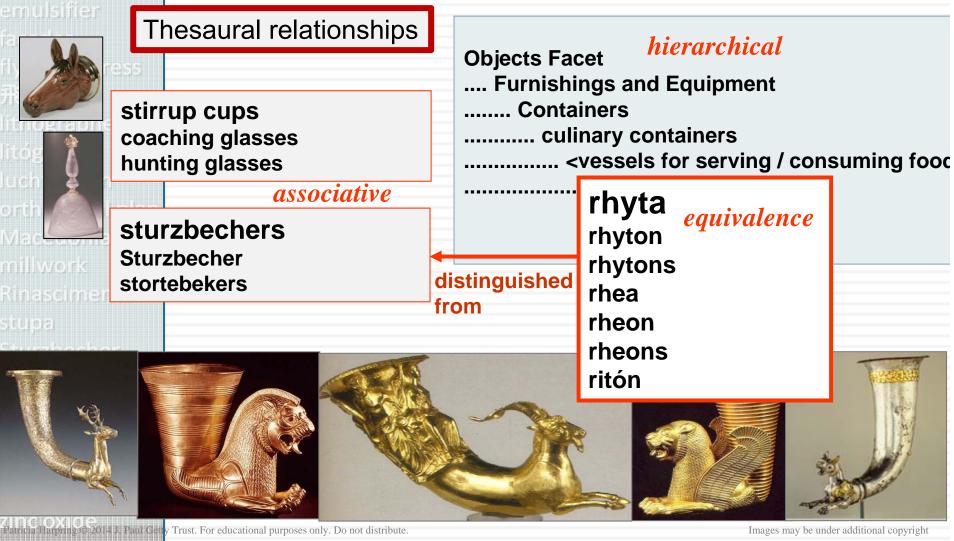
s Materials

Objects

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AAT, the Art & Architecture Thesaurus®



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AAT, the Art & Architecture Thesaurus®

Sample record

ID: 300132869

Terms:

bobbin lace (pref, en) bone lace (en) cushion lace (en) 梭心蕾絲 (zh) 線軸編織花邊 (zh) kloskant (nl) dentelle aux fuseaux (fr) encaje de bolillos (es) encaje de bolillo (es) Klöppelspitze (de) Klöppelspitzen (de) Associative Relationships requires ... lace pillows (<textile

fabricating tools and equipment>...Objects Facet) [300132869]

Hierarchical Relationships (poly)

.Objects Facet ... Visual & Verbal Communication Visual Works visual works (works) <visual works by material > needlework (visual works) lace (needlework) bobbin lace *Note:* With "needle lace," one of two primary types of handmade lace. It is characterized by being made by ...

Chinese (traditional) 與「針織蕾絲 (needle lace)」同為主要的手工蕾絲, 其特色是以纏繞於線軸或梭心...

Dutch Een van de twee belangrijkste soorten met de hand vervaardigde kant; 'naaldkant' is ...

German Zusammen mit der "Nadelspitze" eine der wichtigsten...

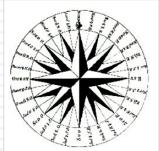
Spanish Junto a "encaje a aguja", uno de los dos tipos principales de ...

Contributors: VP,CHIN,AS,RKD,IfM-SMB-PK,CDPB-DIBAM *Sources:* Earnshaw, Clabburn, Needleworker's Dictionary (1976); Identification of Lace, 2d ed. (1984); Ginsburg, Illustrated History of Textiles (1991)



- Getty Conservation Institute (Los Angeles, California)
- Academia Sinica (Nankang, Taiwan)
- Netherlands Institute for Art History (RKD: Bureau AAT) (The Hague, The Netherlands)
- Centro de Documentación de Bienes Patrimoniales (Dirección de Bibliotecas,
 - Archivos y Museos) (Santiago, Chile)
- Staatliche Museen zu Berlin Preussischer Kulturbesitz (Berlin, Germany)
- [Canadian Heritage Information Network (CHIN) (Gatineau, Quebec, Canada), Istituto Centrale per il Catalogo e la Documentazione (Rome, Italy)(ICCD)] and other contributors of partial translations; future translations in French, Italian, Portuguese, other languages

Angel Falls Athens Athínai Αθήναι Ayers Rock **Bay of Biscay** Bhārat Bora-Bora **Burkina Faso** Casablanca Chichén Itzá Donner Pass Firenze Gdansk **Holy See** Los Alamos Luxor Micronesia New Zealand Perú Rapa Nui Taipei 臺北 Toronto Yisrael



TGN, the Getty Thesaurus of Geographic Names®

Names, other information for current & historical administrative places (cities, nations, empires) and physical features (e.g., *Firenze, Roman Empire, Ganges River*). Current totals: 1,241,000; 1,800,000 names

- It includes formerly inhabited places, archaeological sites, and historical places with unknown exact locations (i.e., "lost settlements")
- It focuses on places important to study of art and related disciplines
- It grows through contributions from large national geographic databases, the expert user community, archaeology projects, scholars, etc.



TGN, the Getty Thesaurus of Geographic Names®

Sample record

ID: 7011179

Names: Siena (it,en,es,fr,nl,de) Σ iéva (el) Siyenah 锡耶纳 (zh) シエーナ (ja) Sienese (en-adj) Sienna (h-en) Sena Julia (h-la) Sanna (h) Saena (h) World (facet) ...Europe (continent)Italy (nation)Tuscany (region)Siena (province)Siena (inhabited place) World (facet) ...Europe (continent)Italian Peninsula (peninsula)Italian Peninsula (peninsula)Siena (inhabited place) Historical: Late Etruscan Associative Rels ally of Pisa ..(inhabited place) [7006082] Ghibelline allies, 13th-14th centuries

Hierarchical Rels. (polyhier.)

(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)

inhabited place settled by Etruscans

Place Types

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

Achilles Painter An Qi 安岐 Bartolo di Fredi Burgkmair, Hans,

the elder Galleria degli Uffizi **Gilbert & George** Katsushika Hokusai **Kicking Bear** Master of Boí Méraud, Pierre-Antoine, père Ngapatari, Hakaraia O'Keeffe, Georgia Pei, I. M. Rothko, Mark Sa'īd, Mahmūd Skidmore, Owings & Merrill unknown Mende Vikramaditya I Wren, Christopher Zeuxiades Ζευξιάδης



ULAN, the Union List of Artist Names®

Names, other information for people (artists, patrons, sitters) and corporate bodies (repositories, studios) related to the design, creation, patronage, collection, conservation, etc. of art, architecture, and other cultural materials (e.g., *Bartolo di Fredi, National Palace Museum*) Current totals: 223,000 records; 582,000 names

- It includes current and historical associative relationships (e.g., *student-teacher*, *firm-member*)
- Contributions to ULAN are from expert communities (museums, art libraries, cataloging projects, etc.)
- ULAN is contributed to the Virtual International Authority File (VIAF) (joint project with US Library of Congress and numerous libraries worldwide to combine name authority)



ULAN, the Union List of Artist Names®

D: 500115493

Names:

Dürer, Albrecht (pref,de,en) Albrecht Dürer Duerer, Albrecht (en) Durer, Albrecht (en) Dürero, Alberto (it) Durerus, Albertus (la) Direr, Albreht Djurer, Albrecht Dyura, Albrecht Drers, Albrechts Alberto Duro Tedesco デューラー, アルブレヒト (ja) 阿尔布雷希特·丢勒 (zh)

Nationalities:

Sample record

German (pref) Bavarian Roles: AAT artist (preferred)

Roles: AAT artist (preferred) painter printmaker engraver (printmaker) woodcutter draftsman illustrator designer mathematician theorist portraitist religious artist

Gender: male

Birth and Death Places:

Born: Nuremberg (Bavaria, Germany) (inhab place) Died: Nuremberg (Bavaria, Germany) (inhab place)

Events: AAT



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

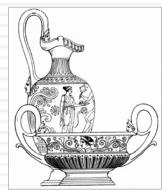
Associative Relationships:

Contributors:

VP,JPGM,Avery,WCI,Prov,GRLPSC,BHA,CCA **Sources:** Bartrum, Albrecht Dürer and his Legacy (2002); Bénézit, Dictionnaire des Peintres (1976; Bartsch, Le peintre graveur. Adoration of the Magi Tree of Life Quilt Bhimesvara Temple Cane Back Chair Château de Versailles Das Treffen der Heiligen Drei Könige Empire State Building Himeji Castle 姫路城 Irises

La Gioconda Model for the Façade of San Lorenzo Mona Lisa MS Ludwig XV Pantheon Portrait of Napoleon Square Ting Vessel of Duke Kang 西周早期康侯方鼎 Still Life with Flowers Venus and Cupid Warrior on Horseback

Zwaardstootplaat



CONA, the Cultural Objects Name Authority®

Titles, other information for moveable works (paintings, sculpture, prints, drawings, photographs, ceramics, etc.) and architecture (buildings, bridges, etc.) (e.g., *Hagia Sophia*, *Mona Lisa, Fantastic Landscape with a Pavilion*).

Current totals: [5,500 records; 9,300 titles]

- It includes works executed or designed (e.g., a built work for which only design drawings exist); extant or destroyed / historical
- CONA is a thesaurus; it is also mapped to <u>CDWA, CCO,</u> <u>CIDOC CRM, and LIDO</u>
- CONA grows through contributions from repositories of art and the expert cataloging and scholarly community

Under discussion are the possible applications of CONA:

Perhaps in the future

- CONA could be a resource to link the Getty vocabularies to records for art and architecture (in LOD or otherwise)
- CONA could link subject terminology to art and architecture records
- CONA could facilitate linking between works, including works held in different repositories but having historical relationships (e.g., studies, disassembled manuscripts, etc.)



Titles:

anoniem

CONA, the Cultural Objects Name Authority®

Sample record

ULAN Locations: **TGN 1. CONA could link work Current**: Rijksmuseum (Amsterdam, North Holland, records to Getty vocabularies Netherlands) AK-MAK-1291; RM001.collect.910; Bruikleen van de Vereniging van Vrienden der Aziatische Kunst **ID:** 700001950 Creation: Tamil Nādu (India) AAT *Materials:* bronze founding Shiva met de maan in het haar (nl) *Dimensions:* 40 cm (height) x 24cm (width) x 10.5 (depth) Shiva with the Moon in his Hair (en) *Events:* exhibition: Metamorfoze/Geheugenproject Willem Witsen Catalog Level: item AAT **Cultures**: Work Types: Chola AAT Indian sculpture (visual work) **AAT** ΑΑΤ **General Subject: TGN Classifications:** human figure(s) (preferred) **ULAN** sculpture (preferred) religion and mythology CONA Creation Date: 1000/1200 **Specific Subjects: CONA IA** Shivá (Hindu iconography) Creator Display: mudrā (pose, <visual and representational concepts>) [link to lconclass] sculptor: unknown Chola ULAN Images may be under additional copyright Contributors & Sources: [Rijksmuseum;VP]; Rijksmuseum XML file Patricia Harpring © 2014 J. Paul Getty Trust. For educational purposes only



Sample record

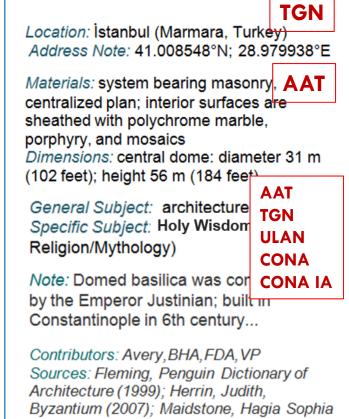
Work Types: church; mosque; museum

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



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]

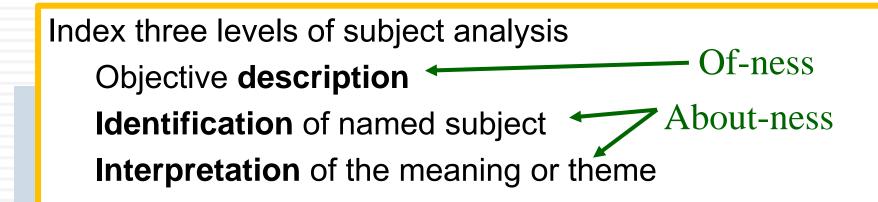


Architecture (1999); Herrin, Judith, Byzantium (2007); Maidstone, Hagia Sophia (2002); Theoharidou, Architecture of Hagia Sophia (1988); Xydis, Chancel Barrier of Hagia Sophia (1947)

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)

2. CONA could link depicted subjects

- Whereas libraries have a tradition of cataloging the subjects of works
- Many art museums typically do not index subject matter depicted in / represented by works
 - [sitters, places, events, iconographical themes, dedication of certain buildings, etc.]
 - In a survey conducted of American art museums' data, of the core fields (agreed by consensus in CDWA, CCO, etc.), all museums included all core fields except the subject [by OCLC (Online Computer Library Center, a nonprofit computer library service and research organization); core fields per CCO and CDWA (Categories for the Description of Works of Art)]



- For such subject indexing: CONA can link to AAT, TGN, ULAN, CONA itself, and the CONA Iconography Authority
- As well as to other sources for subjects, such as the US Library of Congress authorities and Iconclass (we intend to work closely with Iconclass, a Dutch classification system, www.iconclass.nl/)

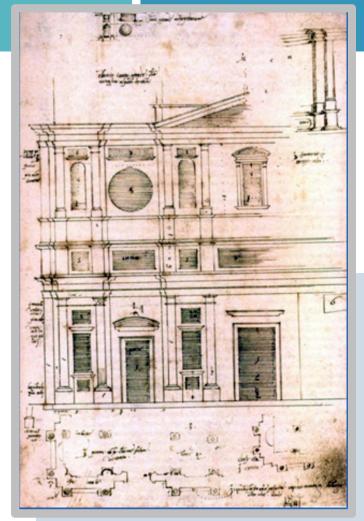
Depicted Subjects



Lincoln on the Battlefield of Antietam; albumen print; Alexander Gardner (American photographer, 1821-1882); 1862; 8 5/8 x 7 3/4 inches; J. Paul Getty Museum (Los Angeles, CA); *General* portraits history and legend

Specific

Antietam National Battlefield (Sharpsburg, Maryland, United States) .	TGN
American Civil War (event)	CONA IA
Abraham Lincoln (American president 1809-1865)	ULAN
John McClernand (American Union	OLAN
General, 1812-1900)	ULAN
Allan Pinkerton (American Secret	ULAN
Service agent, detective, 1819-1884).	
army camp	
	7 V 11



Plan and Elevation of the façade of San Lorenzo; drawing; Aristotile da Sangallo after Michelangelo; late 15th century; 32.0 x 21.5 cm (12 1/2 x 8 3/8 inches); pen and sepia ink; Staatliche Graphische Sammlung Patricia (Munichel Germany) #33258 eational purposes only. Do not distribute.

Depicted Subjects

General architecture

Specific

San Lorenzo (built work,	
Florence, Italy)	AAT
church	AAT
elevation	
plan	AAT



Depicted Subjects

General

religion and mythology human figure(s)

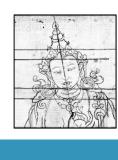
Specific

bodhisattvaAATAvalokiteshvara.CONA IAMaitreyaCONA IAcompassionAAT

Battle of Little Bighorn Nohochacyum Amun "Αμμων Valhöll Valhalla Pied Piper of Hamelin Rattenfänger von Hameln Shiva Siva Xiva शिव Adoration of the Magi Adorazione dei Magi Anbetung der Heiligen Drei Könige Bambi **Battle of Salamis** Naumachia tēs Salaminos



Enthronement of Puyi 溥儀的登基大典



The CONA Iconography Authority Named events, religious/mythological iconography, fictional characters and places, themes from literature

- Includes the proper names of subjects not covered by other Getty vocabularies
- The CONA Iconography Authority (IA) is a module within CONA; over time, it could become a standalone authority through contributions
- Includes links to other sources, such as Iconclass and the US Library of Congress subject authorities



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The CONA Iconography Authority

Sample record

ID: 1000085

Names:

Avalokiteshvara Avalokiteśvara अवलोकितेश्वर Kannon Guanyin Guānzìzài 觀自在 觀音 观音菩萨 role/attribute bodhisattva role/attribute Lotus (genus) related to Mahayana Buddhism related to Theravada Buddhism AAT TGN ULAN CONA

Associative Relationship:

AAT link:

associated with Krishna (Hindu iconography)

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

Contributors & sources

[VP] Encyclopedia Britannica Online (2002-); Bowker, Oxford Dictionary of World Religions (1997); Huntington, Art of Ancient India (1985) *Iconclass: no LC: LC control no.: sh 85010492*

CONA, the Cultural

Relationships in CONA

3. CONA could provide links between works

Whole/part relationships for groups, subgroups, items

The Dissipation; Jacques Callot (French, 1592-1635); etching; Lieure, no. 1407, State ii/iii; National Gallery of Art (Washington, DC); R.L. Baumfeld Collection; 1969.15.833.



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Y®

Relationships in CONA









 Whole/Part Records for a series and items (conceptual relationship)

> *Great Wave at Kanagawa*; Katsushika Hokusai (Japanese, 1760-1849); published by Nishimura Eijudo (Japanese, 19th century); woodcut, polychrome ink and color on paper; 25.7 x 37.9 cm (10 1/8 x 14 15/16 inches); Metropolitan Museum of Art, New York, New York, USA), JP1847.

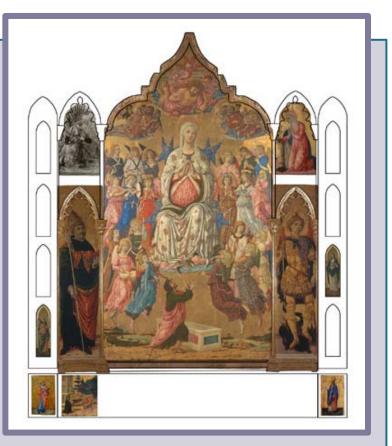


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Relationships in CONA

- CONA could virtually reconstruct disassembled works
- Held in different repositories or locations

 Manuscripts, paintings, sculpture, architecture, etc.



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.

Relationships in CONA

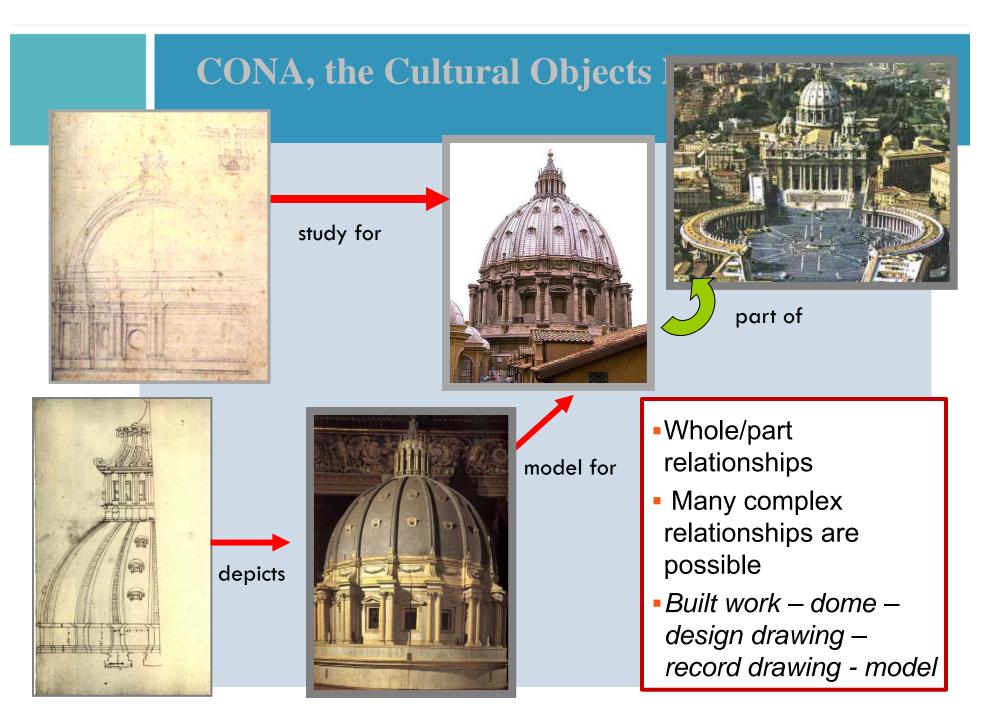
Related works in different repositories may be linked



(Washington, DC); 1946.7.18

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Getty Vocabularies to LOD: Usage and Editorial Perspective

AAT TGN ULAN CONA



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How are vocabularies used?



Giambologna *Female Figure*; Marble; H: 48 in.; 2008 J. Paul Getty Museum; 82.SA.37



Giovanni Bologna; *Triton*, 16th century (1560–70);

century (1560–70); Bronze; H. 36 in; Metropolitan Museum of Art; Bequest of Benjamin Altman, 1913 (14.40.689)



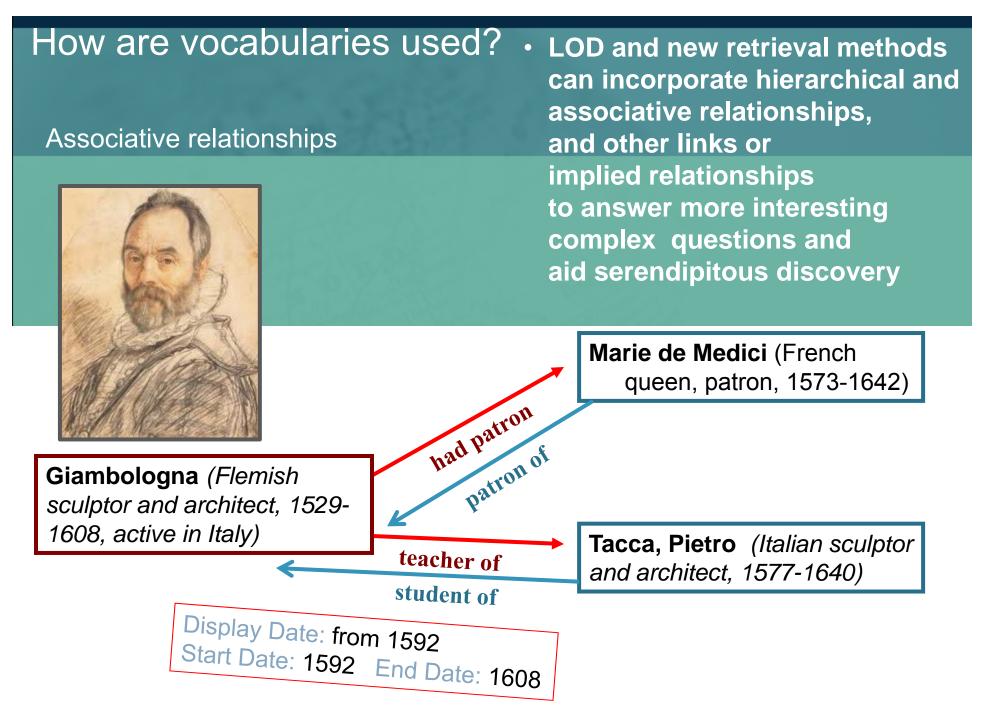
Jean Boulogne; Mercure

volant; Bronze; H 1,7 m; L 0,57m; Pr 1,4 m; Musee du Louvre, Collection du duc de Brissac (saisie en 1794)?; MR Bologna, Giovanni da; Christ Crucified, probably before 1588; bronze, corpus, height including for tre: 31x 254x, 708 m; National Galery of Ar, Washington, DC; Gift of Mr. and Mr. Johan R. Gaines in memory

"giambologna" OR "giovanni da bologna" OR "giovanni bologna" OR "jean boulogne" OR "bologna, giovanni da" Traditional use of vocabularies for retrieval focuses on the names

- If a user asks for one name/term, all of the synonyms can be used for retrieval
- For example, if a user searches on "Giovanni da Bologna"

From ULAN Giambologna Giovanni da Bologna Giovanni Bologna Jean Boulogne Jean de Boulogne Bologna, Giovanni da



Editorial perspective: LOD

Editorial rules Consistency in application of rules	 The Getty vocabularies have always been compiled by experts Using authoritative sources Rules in extensive editorial manuals
Consistency in content of controlled terminology within each vocabulary	 Seen through the LOD lens, any inconsistency or omission become ever more obvious Getty Vocabulary Program analyzes and cleans up of the data for LOD releases
	rdf-schema#label" }, "Object":{ "xml:lang":"en", "type":"literal", "value":

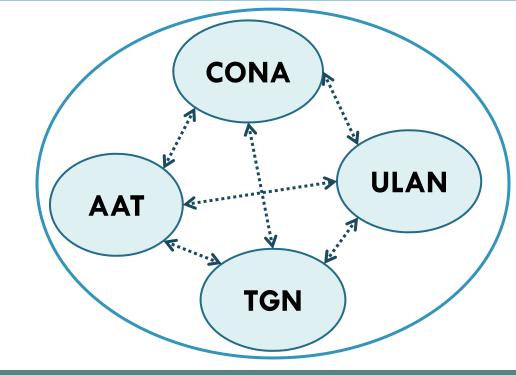
Editorial perspective: LOD

From conceptual to actual links

- Lookup lists had been based on AAT, but had gotten out of sync with AAT over the years
- E.g., nationalities, roles in ULAN and place types in TGN must map to AAT terms

"literal",

'rhvton'



"Predicate" : { p://vocab.getty.edu/aat/300198841" "ype": "xml:lang" : "el-latn", f-schema#labeľ "Object":{ "type" : "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", "Subject" : { "type" : "uri", "value" : "∨alue" : "rhyta "http://vocab.getty.edu/aat/300198841 "Predicate" : { "type" : "uri", "value" : "http://www.w3.org/2000/01/rdf-schema#label" "Obiect" : { "xml:lang" : "en", "type" : "literal", "value" : "type" : "uri". "value" : "http://vocab.getty.edu/aat/300198841' "Subiect" : { 'Predicate'

Editorial perspective: LOD

- Nationality/ Culture/ Race/ Ethnicity in ULAN was conceptual, now needed to be linked to AAT
- Certain matches must be resolved by hand

<u>value : niip:/</u>

ambiquous

"uri"

"lite

"htt

"rhv

<u>xmiliang</u> . es ,

"http://wocab.aetty.ed

no

false

Many links cannot be made automatically Matching ULAN Nationality to AAT

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_AN	code	Nat/Culture ULAN	AAT subject_id	AAT term_id	AAT term	
al,		Languedocian				
o be	901615	Burgundian (Migration period)	300020847	1000020847	Burgundia	n (Migration
	901620	Parisian				
	901630	Gallic	300379855	1000540772	Gallic	
	901710	Swabian				
	901800	German	300111192	1000111192	German	
es	901810	East German	1			This
ved 1	901820	West German				_
vcu	901830	Prussian				hessian
	901840	Bavarian	300385972	1000568017	Bavarian	is bad
	901850	Hamburger				match
match	901860	Hessian	300014076	1000014077	nessian	match,
march	01870	Thuringian	300105675	1000105675	Thuringian	type of
	901880	Saxon	300379686	1000540441	Saxon	burlap
match	901890	Wendish	300263656	1000263656	Wendish	
e . merai	901900	Rhenish				
1aat/3001	901910	Frankish	300019478	1000019478	Frankish	
match	901920	Merovingian	300019512	1000019512	Merovingia	an (culture)
1			300210049	1000210134	Merovingia	an (scripts)
	901950	Carinthian	300385997	1000568044	Carinthian	

Finis: Introduction to the Getty Vocabularies (Please save questions for the end)

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