Getty Vocabularies: Overview and Issues re. Searching Federated Databases

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Managing Editor

Getty Vocabulary Program

6 December 2022
for Consortium of Online
Decorative Arts (CODA)

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Getty Vocabularies: Overview and Issues re. Searching Federated Databases

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Getty Vocabularies: Content and Contributing

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Getty Vocabularies: Overview & Federated Searching, December 2022

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Contact us: vocab@getty.edu

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- 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

Click the heading

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

Find Getty Vocabs Online

Search online
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Web Services APIs
XML
LOD (GVP and Linked.Art)
SPARQL end point
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Contact us:
vocab@getty.edu

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- Primo Search
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- Collection Inventories & Finding Aids
- Photo Archive
- Research Guides & Bibliog
- Digital
- Article
- Collect Resea
- BHA &
- Getty
  - Art The
  - Cult Auth
  - Get Geo
  - Unic (UL)
  - Con
  - Edit
  - Get Link
  - Free
  - Obt Voc
  - Trai

NEW

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

Art & Architecture Thesaurus® Online

Search the AAT   ? Help

Find Term or ID: | lagynos OR flagons |

○ AND   ○ OR

Note:

Pop-up Search   Browse the AAT hierarchies

Search   Clear

Copyright information

Search Tips

For the Find Term or Note field, you may use **AND** and **OR** (all in up

metadata about works of art, architecture, and other cultural

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

including names, biographies, related people and other

Download Center
LOD, XML, Rel Tab, APIs

- **NEW! Linked.Art Semantic Representation:** Website, Model

  Default model for JSON and JSON-LD serializations Semantic Resolution

  Activity Stream: https://data.getty.edu/vocab/activity-stream

  SPARQL Endpoint: https://data.getty.edu/vocab/sparql

  SPARQL UI: https://data.getty.edu/vocab/sparql-ui

- **GVP Semantic Representation:** HTML (for linking), PDF (for printing).

  Sections GVP URLs and Prefixes and Semantic Resolution describe the used URIs and provide examples. All prefixes that we use are in prefixes.ttl.

  Comprehensive Sample Queries are included.

- **GVP ontology:** HTML, RDF/XML, Turtle

- **Datasets:** (NTriples Zip, see doc section Export Files before using!):
  - AAT: full.zip (all statements), explicit.zip (only explicit statements)
  - TGN: full.zip (all statements), explicit.zip (only explicit statements)
  - ULAN: full.zip (all statements), explicit.zip (only explicit statements)

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*Linked Art is a metadata application profile based primarily on the CIDOC Conceptual Reference Model

Getty Vocabularies

Purpose

- ✓ For some users, to promote consistency in assignment of terms or to provide options for terms for a concept in cataloging

- ✓ For other users, in linking in order to reference the unique identifier of the Vocabulary record, or to otherwise reconcile their data

- ✓ For other users, in retrieval and discovery, to utilize variant terms, broader/narrower contexts, rich contextual data

- ✓ For others, look-up resources of information

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Getty Vocabularies

Characteristics

➢ Compliant with ISO and NISO standards for thesauri

➢ Free and open; Open Data Commons Attribution License (ODC-By) 1.0

➢ Online Search: Consistently the top site visited at GRI, catalogers copy-and-paste, research tool; full data presented in a logical display for end users

➢ Data files: LOD (GVP & Linked.Art, XML, Rel Tables, APIs); developers, incorporated in other tools; MARC for VIAF (Virtual International Authority File)
  ➢ simplified releases → full, rich data sets

➢ **<u>Rich knowledge bases:</u>** They are not simple 'value vocabularies' or authorities; they are rich 'knowledge bases' in themselves, intended for research and discovery

Getty Vocabularies

Established in early 1980s

Getty partners with **international visual arts information community**

Multilingual, multicultural, inclusive

Staff: Small editorial staff, working small technical team at Getty and consultants

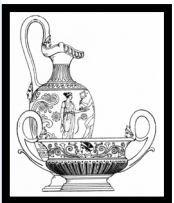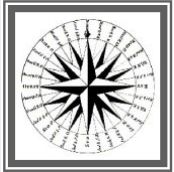**Contributions**: Rely upon > 350 contributors: institutions, consortia, scholarly projects, scholars

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Context

International Terminology Working Group (ITWG)

2020

What Are Getty Vocabularies

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

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

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

- **IA**, *Getty Iconography Authority*™ includes proper names, relationships, and dates for iconographical narratives, religious or fictional characters, historical events, names of literary works and performing art; special focus on non-Western with coreferences to other resources including Iconclass for Western (e.g., *Viaggio dei Re Magi, Flood of Deucalion, French Revolution, Olouaipipilele, Xibalba, Niflheim, शिव, Shiva, Bouddha couché*)

- **CONA**, *Cultural Objects Name Authority*® focuses on architecture, multiples, and works depicted in other works; includes titles, artist attribution, creation dates, relationships, and location for works whether extant or destroyed (new contribution: 70,000 works from BWR) (e.g., *Chayasomesvara Temple, Hagia Sofia, Αγία Σοφία ,The Lacemaker, La Dentellière, Merlettaia, Lion Throne Room,神奈川沖浪, Great Wave, Die große Welle,*)

What Are Getty Vocabularies

- **AAT**, *Art & Architecture Thesaurus®* includes generic terms in several languages, relationships, sources, and scope notes for work types, roles, materials, styles, cultures, and techniques (477,898 terms) (e.g., *amphora, literati (painters), oil paint, olieverf, peintures à l'huile, acetolysis, 玉器, Jadekünste, sintering, orthographic drawings, Olmeca, Rinascimento, Buddhism, emakimono, watercolors, asa-no-ha-toji*)

corefere... (e.g., *Dios...*

- **ULAN**, *Un...* informatio... bodies, b... *Mark Roth...*

- **IA**, *Getty Ic...* religious or fictional characters, historical events, names of literary works and performing art; special focus on non-Western with coreferences to other resources including Iconclass for Western (e.g., *Viaggio dei Re Magi, Flood of Deucalion, French Revolution, Olouaipipilele, Xibalba, Niflheim, शिव, Shiva, Bouddha couché*)

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AAT, *Art & Architecture Thesaurus®*

UNIQUE IDS

LANGUAGES

PREFERENCES
= views of data

DATES, HIST/CUR

RELS/LINKS--POLY

CREDIT/WARRANT

COREFERENCES

Sample record *(partial)*

AAT ID: 300190536

Terms:
steel engravings (pref, en-P,PN)
[1000041363] *Contrib.* [VP,BHA] *Sources*.
Gascoigne 1986, Lucie-Smith 1986, Brit 2000-*
Qualifier: visual works
Date: from 1792
Start: 1792 *End:* 9999
steel engraving (en, SN)
[1000299348] *Contrib.* [VP,BHA] *Sources*. *
Qualifier: visual work
engravings on steel (en) (Hist)
[1000895990] *Contrib.* [Morem] *Sources*. *
gravures sur acier (fr-N, PFN)
[1000304335] *Contrib.* [CHIN] *Sources*. *
鋼版刻印 (zh_TW-P) [1000551901]
Contrib. [AS] *Sources*. *
gāng bǎn kè yìn (zh-Latn-pny-P)
[1000551903]] *Contrib.* [AS] *Sources*. *
staalgravures (nl-P) [1000482814]
Contrib. [RKD-AAT ned] *Sources*. *
gravuras em metal (pt-P)
[1000884616] *Contrib.* [CVAA-BR] *Sources*. *

Terms (cont):
grabados al acero (es-N) [1000429838]
Contrib. [CDBP-SNPC] *Sources*. *
Stahlstiche (de-N) [1000655952]
Contrib. [IfM-SMB-PK] *Sources*. *

Associative Relationships
produced by ... steel engraving (printing
process) [300190536]
distin*Contrib.* [VP,BHA] *Sources*. *
guished from … siderographs
[300389774] *Date:* from early 1800s
Start: 1800 *End:* 9999

Hierarchical Relationships (poly)
Objects Facet
.. Visual and Verbal Communication (G)
.... Visual Works (hierarchy name) (G)
...... visual works (works) (G)
.... <visual works by material or technique> (G)
.... prints (visual works) (G)
.... <prints by process or technique> (G)
.... <prints by process: transfer method> (G)
.... intaglio prints (G)
.... engravings (prints) (G)
.... steel engravings (visual works) (G)

Note: Prints made by the process of "steel engraving
(printing process)," in which plates of steel or steel-
faced copper are used, having replaced the use of less
durable copper plates in the early 19th century…
Contrib. [VP,BHA] *Sources*. Gascoigne 1986, Lucie-
Smith 1986, Brit 2000-, *]
Chinese (traditional) 以鋼版雕刻程序製成的版畫
Contrib. [AS] *Sources*. *
Dutch Gravures waarbij de afbeelding is gesneden in
een stalen plaat. *Contrib.* [RKD-AAT ned] *Sources*. *
German ..... Druck, der im Verfahren des Stahlstichs
hergestellt wurde. *Contrib.* [IfM-SMB-PK] *Sources*. *
Spanish ..... Estampas realizadas mediante el proceso
de grabado en acero.…*Contrib.* [CDBP-SNPC] *Sources*. *

Contributors: VP,BHA,CHIN,AS,RKD,IfM-
SMB-PK,CDPB-DIBAM
Sources: Griffiths, Prints (1996);
Hunnisett, Steel-Engraved (2020);
Koschatzky, Die Kunst der Graphik (1988);
Thes.Graph.Mat. **tgm010117**; Lucie-
Smith, Thames & Hudson Dictionary of Art
Terms (1986); Newman, Innovative
Printmaking (1997)

What Are Getty Vocabularies

Unique features of Vocabs may aid in searching federated DBs

- UNIQUE IDS
- LANGUAGES
- PREFERENCES = views of data
- DATES, HIST/CUR
- RELS/LINKS--POLY
- CREDIT/WARRANT
- COREFERENCES
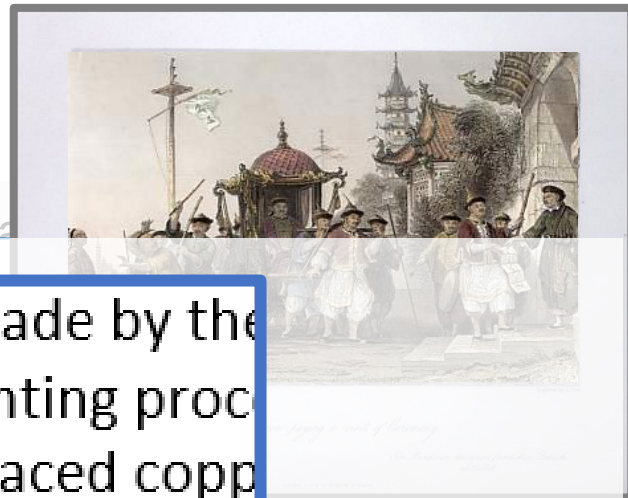
AAT ID: 300190536

Terms:
steel engravings (pref, en-P,PN) [1000041363]
  Qualifier: visual works
  Date: from 1792
  Start: 1792 *End:* 9999
steel engraving (en, SN) [1000299348]
  Qualifier: visual work
engravings on steel (en) (H) [1000895990]
gravures sur acier (fr-P, PFN) [1000304335]
鋼版刻印 (zh-P) [1000551901]
gāng bǎn kè yìn (zh-P)

Note: Prints made by the engraving (printing proc steel or steel-faced copp replaced the use of less the early 19th century...

Chinese (traditional) 以鋼
Dutch Gravures waarbij in een stalen plaat.
German ..... Druck, der in hergestellt wurde.
Spanish ..... Estampas re proceso de grabado en a

UNIQUE IDS

LANGUAGES, POS

PREFERENCES

DATES, HIST/CUR

RELS/LINKS--POLY

CREDIT/WARRANT

COREFERENCES

Associative Relationships

produced by ... steel engraving (printing process) [300190536]

distinguished from ... siderographs [300389774]

Hierarchical Relationships (poly)

Objects Facet
.. Visual and Verbal Communication (G)
.... Visual Works (hierarchy name) (G)
...... visual works (works) (G)
.... <visual works by material or technique> (G)
.... prints (visual works) (G)
.... <prints by process or technique> (G)
.... <prints by process: transfer method> (G)
.... intaglio prints (G)
.... engravings (prints) (G)
.... steel engravings (visual works) (G)

Note: Prints made by the process of "steel engraving (printing process)," in which plates of steel or steel-faced copper are used, having replaced the use of less durable copper plates in the early 19th century...

Chinese (traditional) 以鋼版雕刻程序製成的版畫
Dutch Gravures waarbij de afbeelding is gesneden in een stalen plaat.
German ..... Druck, der im Verfahren des Stahlstichs hergestellt wurde.
Spanish ..... Estampas realizadas mediante el proceso de grabado en acero....

Contributors: VP,CHIN,AS,RKD,IfM-SMB-PK,CDPB-DIBAM
Sources: Griffiths, Prints (1996); Koschatzky, Die Kunst der Graphik (1988); Thes.Graph.Mat. **tgm010117**; Lucie-Smith, Thames & Hudson Dictionary of Art Terms (1986); Newman, Innovative Printmaking (1997)

What Are Getty Vocabularies

- **AAT**, *Art & Architecture Thesaurus*®

...cture Thesaurus®, includes generic terms in several langu...

Sample record

AAT ID: 300190536

Terms:
steel engravings (pref, en-P)

Associative Relationships

Contributors: VP,CHIN,AS,RKD,IfM-SMB-PK,CDPB-DIBAM
Sources: Griffiths, Prints (1996); Hunnisett, Steel-Engraved (2020); Koschatzky, Die Kunst der Graphik (1988); Thes.Graph.Mat. **tgm010117**; Lucie-Smith, Thames & Hudson Dictionary of Art Terms (1986); Newman, Innovative Printmaking (1997)

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Chinese (traditional) 以鋼版雕刻程序製成的版畫
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Spanish ..... Estampas realizadas mediante el proceso de grabado en acero....

Contributors: VP,CHIN,AS,RKD,IfM-SMB-PK,CDPB-DIBAM
Sources: Griffiths, Prints (1996); Koschatzky, Die Kunst der Graphik (1988); Thes.Graph.Mat. **tgm010117**; Lucie-Smith, Thames & Hudson Dictionary of Art Terms (1986); Newman, Innovative Printmaking (1997)

.... steel engravings (visual works) (G)

[1000429838]
Stahlstiche (de-P) [1000655952]

..., 神奈川沖浪, Great Wave, Die große Welle.)

UNIQUE IDS

LANGUAGES, POS

PREFERENCES

DATES, HIST/CUR

RELS/LINKS--POLY

CREDIT/WARRANT

COREFERENCES

Getty

View of the AAT hierarchy

Top of the AAT hierarchies
.... Objects Facet
.... Visual and Verbal Communication (hierarchy n
.... Visual Works (hierarchy name)
.... visual works (works)
.... <visual works by material or techniqu
.... prints (visual works)
.... <prints by process or technique>
.... <prints by process: transfer me
.... intaglio prints
.... engravings (prints)
.... copper engravings (visual works)
.... drypoints (prints)
.... line engravings (prints)
.... lithographic engravings (prints) [N]
.... mezzotints (prints)
.... carborundum mezzotints (prints)
.... sand-grain mezzotints (prints)
.... niello prints
.... punched engravings
.... siderographs
.... steel engravings (visual works)
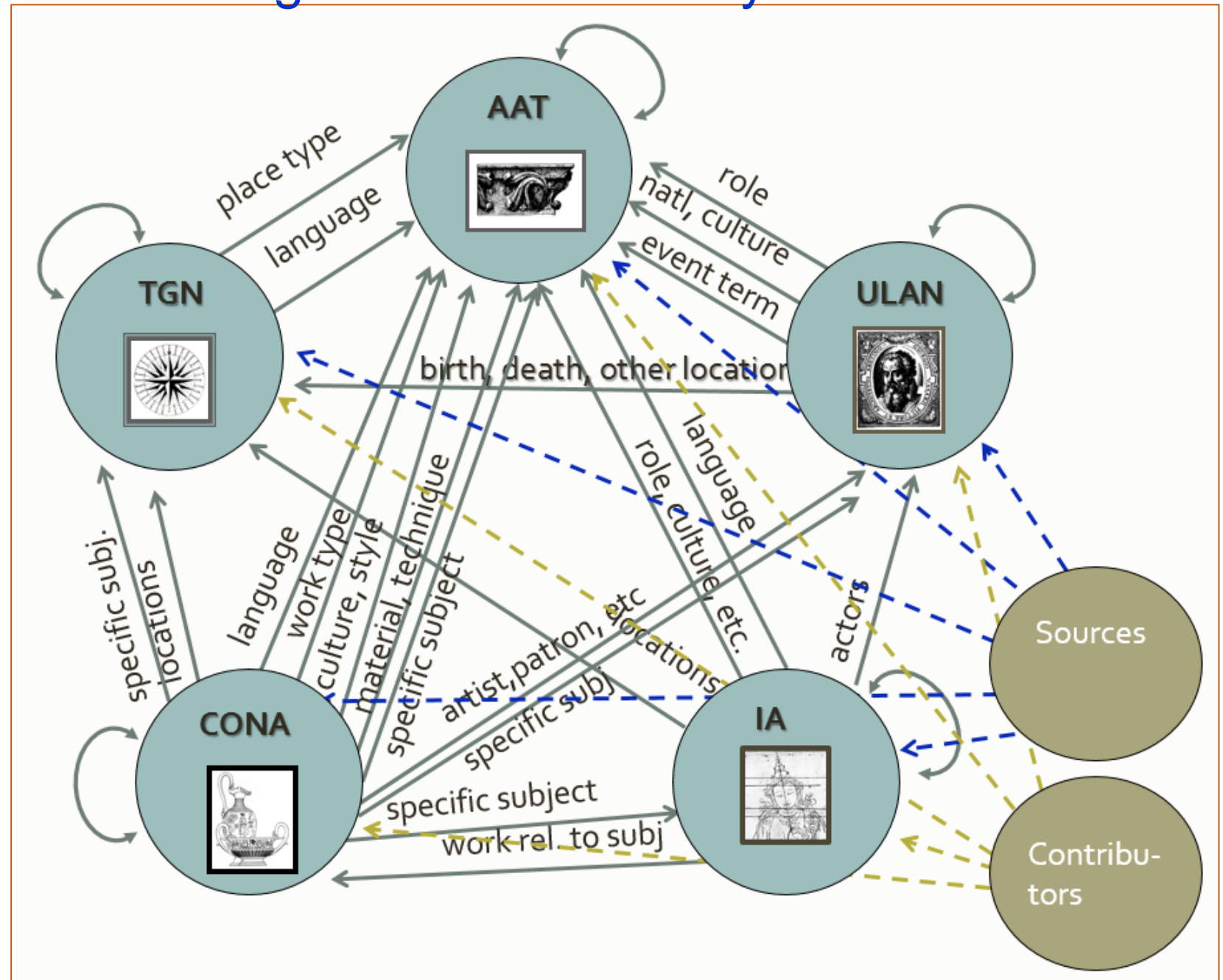.. stipple engravings (prints)

- Indention: broader/narrower (genus/species)
- Sub-facets (called "hierarchies") establish the context of the term
- Guide terms in angled brackets
- Qualifiers display in parentheses

Concept
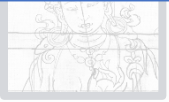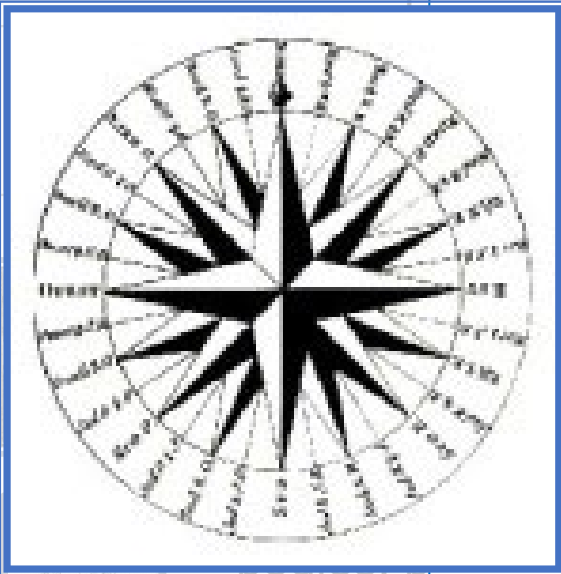steel engravings (visual works)

Unique features of Vocabs may aid in searching federated DBs

Links and relationship types within and between vocabularies were normalized and published when LOD was created

Linking between the Getty Vocabularies

What Are Getty Vocabularies

- **AAT**, *Art & Architecture Thesaurus®* includes generic terms in several languages, relationships, sources, and scop

- **TGN**, *Getty Thesaurus of Geographic Names®* includes names, relationships, and coordinates, with special focus in development on historical information for current cities, historical nations, empires, archaeological sites, lost settlements, and physical features as necessary for cataloging art; not comprehensive and not GIS but may include coreferences to GIS and maps (5,316,468 names) (e.g., *Diospolis, Acalán, Ottoman Empire, Axumite Empire, Mogao, Ch'ien-fu-tung, Leptis Magna, Machupicchu, Ganges River, गंगा नदी*)

Mark Rot

- **IA**, *Getty I*
  religious o
  Western w
  Deucalion

- **CONA**, *Cultural Objects Name Authority®* includes titles, artist attribution, creation dates, relationships, and location for works whether extant or destroyed (new contribution: 70,000 works from BWR) (e.g., *Chayasomesvara Temple, Hagia Sofia, Αγία Σοφία ,The Lacemaker, La Dentellière, Merlettaia, Lion Throne Room,神奈川沖浪, Great Wave, Die große Welle*)

Getty

•TGN, *Getty Thesaurus of Geographic Names*®
Sample record
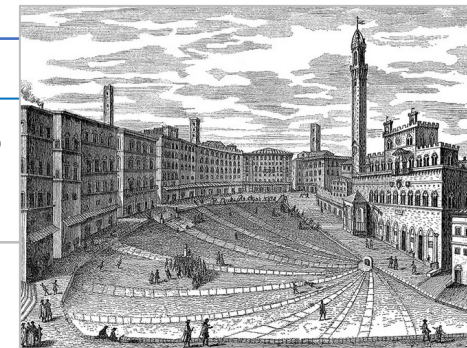
TGN ID: 7011179

Names:

Siena (pref,it,en-P) [47413]
   Contrib. [VP,BHA,Avery]
   Sources. Annuario Generale 1980,
  UNESCO (1992); Williams (2010)*
Sienna [140808]
Sienne (fr-P) [1002860953]
Σιένα (el-P) [1002038443]
锡耶纳 (zh-P) [1002038446]
Сиена (ru) [1002038445]
シエーナ (ja) [1002038441]
Sienese (adj) (en) [1159549]
Senae (hist.) [181416]
  Date: Medieval
  Start: 800 *End:* 1500
Sena Julia (hist.) (la) [181415]
Sena (hist.) [181414]
  Date: Etruscan
  Start: -800 *End:* 200

- UNIQUE IDS
- LANGUAGES
- PREFERENCES = views of data
- DATES, HIST/CUR
- RELS/LINKS--POLY
- CREDIT/WARRANT
- COREFERENCES

Hierarchical Relationships (poly.)

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

World (facet)
...Europe (continent)
......Italian Peninsula (peninsula)
.........Etruria (former group of political entities)
............Siena (inhabited place) (Hist.)
    Date: Late Etruscan   *Start:* -400 *End:* 100

Associative Relationships

ally of Pisa ..(inhabited place) [7006082]
  Date: Ghibelline allies, 13th-14th
  centuries *Start:* 1250 *End:* 1400

Contributors:
VP,BHA, Avery,GRI
Sources: Annuario Generale (1980); NGA/NIMA database (2003-) **-129709**; Library of
Congress Authorities **n 79013822**; UNESCO World Heritage Centre [online] (1992-);
VIAF: Virtual International Authority File [online] (2009-) VIAF ID: **239842096 (Geographic)**

Place Types

inhabited place
  Date: settled by Etruscans (flourished
  6th century BCE) *Start:* -800 *End:* 9999
city
archiepiscopal see
commune (administrative)
  Date: since 1125 *Start:* 1125 *End:* 9999
cultural center
university center
world heritage site

AAT

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 ...

View of the TGN hierarchy

- Top of the TGN hierarchy (hierarchy root)
- .... World (facet)
- .... Europe (continent)
- .... Etruria (former group of political entities)
- .... Arezzo (inhabited place) [N]
- .... Bologna (inhabited place) [N]
- .... Cerveteri (inhabited place) [N]
- .... Chianciano Terme (inhabited place) [N]
- .... Chiusi (inhabited place) [N]
- .... Cortona (inhabited place) [N]
- .... Fiesole (inhabited place) [N]
- .... Kainua (deserted settlement) [N]
- .... La Foce (inhabited place) [N]
- .... Orte (inhabited place) [N]
- .... Orvieto (inhabited place) [N]
- .... Perugia (inhabited place) [N]
- .... Pisa (inhabited place) [N]
- .... Populonia (inhabited place) [N]
- .... Rusellae (deserted settlement) [N]
- .... Siena (inhabited place) [N]
- .... Tarquinia (deserted settlement) [N]
- .... Veio (deserted settlement) [N]
- .... Vetulonia (inhabited place) [N]
- .... Volterra (inhabited place) [N]

- Indention: broader/narrower (whole/part(former group of political entities))
- Historical hierarchical view of places
- Place Types display in parentheses

Place

Siena (Etruria)
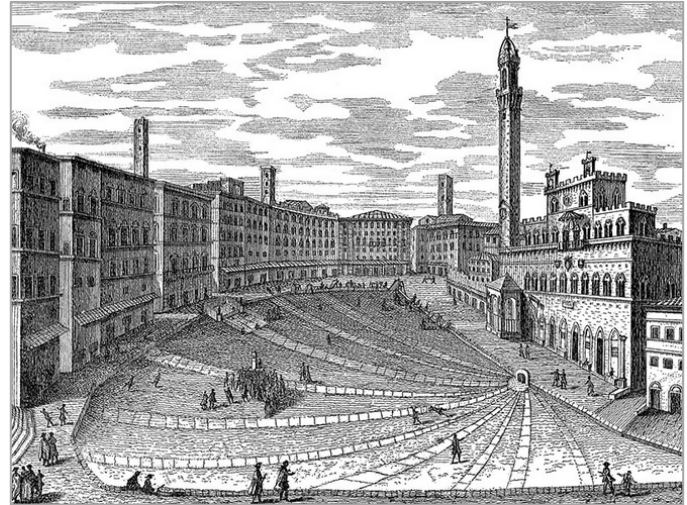
What Are Getty Vocabularies
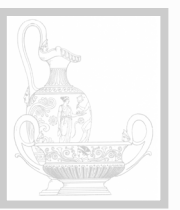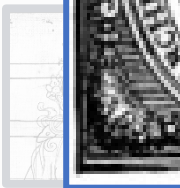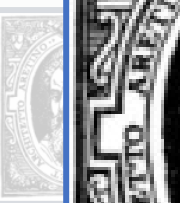
- **AAT**, *Art & Architecture Thesaurus*® includes generic terms in several languages, relationships, sources, and scope notes for agents, work types, roles, materials, styles, cultures, and techniques (e.g., *amphora, oil paint, olieverf, peintures à l'huile, acetolysis, 玉器, Jadekünste, sintering, orthographic drawings*
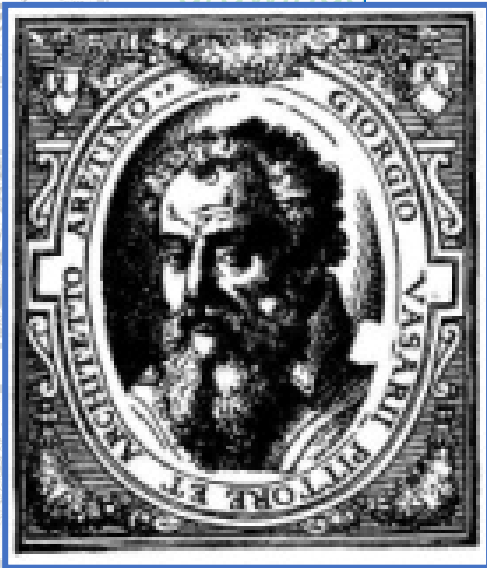
- **ULAN**, *Union List of Artist Names*® includes names, relationships, notes, sources, and biographical information for artists, architects, firms, studios, repositories, patrons, other individuals and corporate bodies, both named and anonymous; may include coreferences to other resources (1,470,142 names) (e.g., *Mark Rothko, Cai Xiang,蔡襄, Crevole Master, Riza Abbasi, Rajaraja Museum, I. M. Pei & Partners, Ahuitzotl, William Kentridge, Frida Kahlo*)

- IA, Getty
  religious c
  Western w
  Deucalion

- **CONA**, *C*
  includes titles, artist attribution, creation dates, relationships, and location for works whether extant or destroyed (new contribution: 70,000 works from BWR) (e.g., *Chayasomesvara Temple, Hagia Sofia, Αγία Σοφία ,The Lacemaker, La Dentellière, Merlettaia, Lion Throne Room,神奈川沖浪, Great Wave, Die große Welle*)

Getty

• ULAN, *Union List of Artist Names*®
Sample record
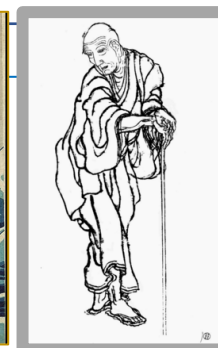
ULAN ID: 500060426
Names:
Katsushika Hokusai (en,ja-trans) [1500235399]
 Contrib. [VP,CCA, Avery]
 Sources. Bowie (1964), Grove (2022),Met (2003)*
Hokusai (en,ja-trans) [1500235408]
 Date: name taken by the artist in 1798, and used for his prints and paintings
 Start: 1798 **End:** 9999
葛飾 北斎 (ja) [1500705416]
Shunrō (en,ja-trans) **Date:** gō (artist's name), used in his years of training, when painting hosoban (narrow prints) [1500235400]
Sōri (en,ja-trans) **Date:** gō used in early career, named taken from his Rinpa-school master Tawaraya Sōri [1500235401]
Kakō (en,ja-trans) **Date:** used for the production of commecial prints and books [1500235402]
Tatsumasa (en,ja-trans) **Date:** used for the production of privately published illustrations [1500235403]

UNIQUE IDS
LANGUAGES
PREFERENCES = views of data
DATES, HIST/CUR
RELS/LINKS--POLY
CREDIT/WARRANT
COREFERENCES

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

Birth date: 1760
Death date: 1849

Nationalities:
 Japanese (pref)

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

Gender: male

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

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

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

Contributors:
VP, Avery,GRL,BHA,CCA
Sources: Bowie, Drawings of Hokusai (1964);
Grove Dictionary of Art online (1999-2002);
Library of Congress Authorities **n 80043599** ;
Metropolitan Museum of Art [online] (2003-);
Bouquillard, Hokusai: First Manga Master (2007)

View of the ULAN hierarchy

Top of the ULAN list / hierarchy

.... **Persons, Artists** (ULAN facet)

.... **Katsukawa Shuntei** (Japanese illustrator, printmaker, and painter, 1770-1820)

.... **Katsukawa Shunzan** (Japanese printmaker, active 1782-17...

.... **Katsuki, Liane** (Brazilian jewelry designer, active late 20th century)

.... **Katsumoto, Fujio** (Japanese painter, 1926-1984)

.... **Katsumoto, Hosokawa** (Japanese administrator, architect, 1430-1473)

.... **Katsura, Hideaki** (Japanese architect, contemporary)

.... **Katsushika Hokusai** (Japanese printmaker, painter, 1760-1849)

.... **Katsushika Ōi** (Japanese painter, active 19th century)

.... **Katsu Shikin** (Japanese poet, seal carver, and physician, 1739-1784)

.... **Corporate Bodies** (ULAN facet)

.... **Art Institute of Chicago** (American museum, Chicago, founded in 1879)

.... **Dept. of Architecture** (American department, Chicago, founded 1982)

.... **John M. Flaxman Library** (American library, Chicago, established in 1967)

.... **Ryerson and Burnham Libraries** (American library, Chicago, established 1967)

.... **Burnham Library of Architecture** (American library, 1912-1967)

.... **Ryerson Library** (American library, Chicago, founded 1904)

.... **School of the Art Institute of Chicago** (American art school, Chicago, established in 1967)

- Indention: broader/narrower (instance)
- Corporate Bodies can have more levels
- Display Biography displays in parentheses

Person

Katsushika Hokusai

What Are Getty Vocabularies

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

- **TGN**, *Getty Thesaurus of Geographic Names®* includes ...

- **IA**, *Getty Iconography Authority*™ includes proper names, relationships, and dates for iconographical narratives, religious or fictional characters, historical events, names of literary works and performing art; special focus on non-Western with coreferences to other resources (7,200 terms) (e.g., *Yemonja, Flood of Deucalion, Viaggio dei Re Magi, French Revolution, Olouaipipilele, Xibalba, Niflheim, शिव, Shiva, Bouddha couché, Mithras*)

- **CONA**, *C...* includes titles, artist attribution, creation dates, relationships, and location for works whether extant or destroyed (new contribution: 70,000 works from BWR) (e.g., *Chayasomesvara Temple, Hagia Sofia, Αγία Σοφία, The Lacemaker, La Dentellière, Merlettaia, Lion Throne Room, 神奈川沖浪, Great Wave, Die große Welle*)

Getty

• **IA**, *Getty Iconography Authority™*
Sample record

IA ID 901000085

Names

Avalokiteśvara (pref-en) [5000191]

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

Avalokitesvara [5001067]

Avalokitesvara [5003150]

अवलोकितेश्वर   (sa) [5001068]

སྤྱན་རས་གཟིགས (bo) [5002308]

Spyan ras gzigs [5002309]

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

UNIQUE IDS

LANGUAGES

PREFERENCES = views of data

DATES, HIST/CUR

RELS/LINKS--POLY

CREDIT/WARRANT

COREFERENCES

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

AAT TGN ULAN CONA

Associative Relationships
  associated with .... Krishna (Hindu iconography)
  counterpart is …. Guanyin (Buddhist iconography)
Display Date: veneration in India flourished ca. 3rd-7th
  centuries   *Start:* 200 *End:* 9999
Note The bodhisattva of infinite compassion and mercy; embodies the compassion of all Buddhas. Known in over 100 manifestations; is portrayed in different cultures as either female or male, as … …

Contributors VP,BHA,BWR
Sources Bowker, Oxford Dictionary of World Religions (1997); Huntington, Art of Ancient India (1985); Encyclopedia Britannica Online (2022-);
LC: LC control no.: **sh 85010492**

View of the IA hierarchy

⬡ **Top of the IA Hierarchies**

⬡ ·········· **Legend, Religion, Mythology**

⬡ ············· **<Buddhist iconography>**

➡ ················· **<Buddhist characters>**

················· **Aizen Myōō (Buddhist character)**

················· **Akṣobhya (Buddhist deity)**

················· **Amaterasu (Shinto deity)**

················· **Amitābha (Mahayana deity)**

················· **Amitāyus (Buddhist character)**

················· **Amoghapasa (Buddhist character)**

················· **Amoghasiddhi (Buddhist deity)**

················· **Ānanda (Buddhist character)**

················· **Arapacana (Buddhist deity)**

················· **Avalokiteshvara (Buddhist bodhisattva)**

················· **Benzaiten (Japanese deity)**

················· **Bhairava (Hindu-Buddhist deity)** [N]

················· **Bishamon (Buddhist character)**

················· **Buddha (primary character of Buddhism)**

················· **Cakrasaṃvara (Buddhist deity)**

················· **Channa (Buddhist character)**

················· **Daiitoku Myōō (Buddhist character)**

- Indention: broader/narrower (instance)
- Guide Terms in angled brackets
- Qualifying description in parentheses

Character
Avalokiteśvara (Buddhist bodhisattva)

What Are Getty Vocabularies
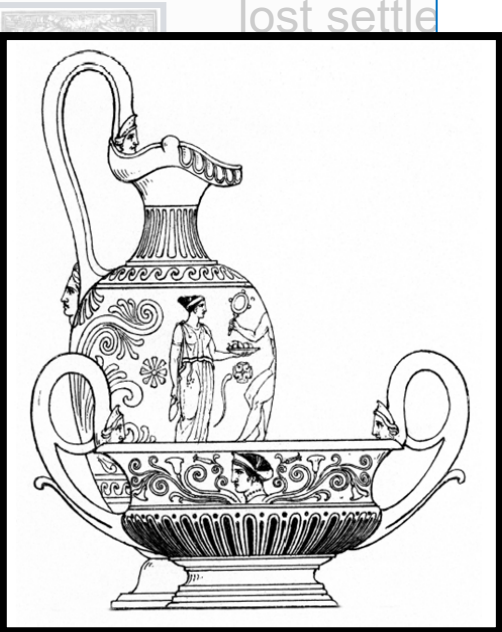
- **AAT**, *Art & Architecture Thesaurus*® includes generic terms in several languages, relationships, sources, and scope notes for agents, work types, roles, materials, styles, cultures, and techniques (e.g., *amphora, oil paint, olieverf, peintures à l'huile, acetolysis, 玉器, Jadekünste, sintering, orthographic drawings, Olmeca, Rinascimento, Buddhism, watercolors, asa-no-ha-toji*)
- **TGN**, *Getty Thesaurus of Geographic Names*® includes names, relationships, and coordinates, with special focus on historical information for current cities, historical nations, empires, archaeological sites, lost settle

- **CONA**, *Cultural Objects Name Authority*® titles, artist attribution, creation dates, relationships, and location for works; focuses on architecture, multiples, works depicted in other works, lost works, designed but not built (107,493 titles) (e.g., *Hagia Sofia, Αγία Σοφία, Adinatha Temple, Flatiron Building, The Lacemaker, Merlettaia, La Dentellière, Lion Throne Room, 神奈川沖浪, Great Wave, Die große Welle*)

includes titles, artist attribution, creation dates, relationships, and location for works whether extant or destroyed (new contribution: 70,000 works from BWR) (e.g., *Chayasomesvara Temple, Hagia Sofia, Αγία Σοφία ,The Lacemaker, La Dentellière, Merlettaia, Lion Throne Room,神奈川沖浪, Great Wave, Die große Welle*)

Getty

CONA, *Cultural Objects Name Authority*®

Sample record
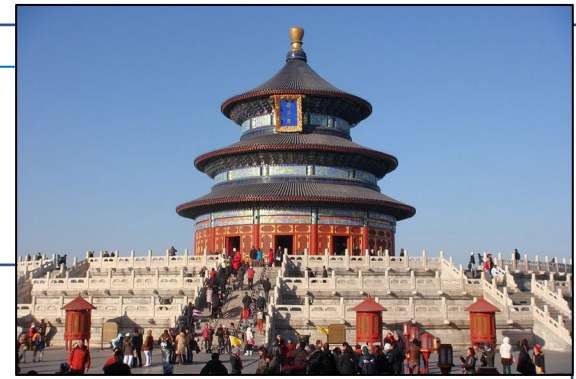
CONA ID: 700002923

Titles/Names:
Temple of Heaven (pref- en)
  [1000016889]
  Display Date: renamed in the
  16th century *Start:* 1521 *End:* 9999
  Contrib: JPGM,BWR,BHA
  Sources: BWR database (2019); Great
  Buildings (2000); UNESCO WHC (1992)
Tian Tan (zh-tr) [1000016890]
T'ien-t'an (zh-trl) [1000019041]
Tiantan [1000016892]
Temple du Ciel (fr) [1000019264]
emplo del Cielo (es)
  [1000019265]
mmelstempel (de) [1000019266]
天壇 (zh) [1000016894]
天坛 (zh) [1000016893]
천단 (ko) [1000019043]

UNIQUE IDS

LANGUAGES

PREFERENCES
= views of data

DATES, HIST/CUR

RELS/LINKS--POLY

CREDIT/WARRANT

COREFERENCES

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

[ULAN 500356295]
  Role: patron/38121
[ULAN 500372663]
  Role: patron/38121
[ULAN 500372572]
  Role: patron/38121

Locations:
Location current Beijing (Beijing Shi (municipality), China)
(nation) **Address Note**: +39.913889,+116.391667 **TGN**
Dimensions [display] entire complex: 237 hectares
Mat & Tech [display] wood and stone
wood AAT 300011914 | stone AAT 300011176] **AAT**

Style: Chinese [AAT 300018322] | Taoist [AAT 3001 **AAT**
General Subject:
architecture **Type:** isness
religion and mythology **Extent:** purpose
Specific Subjects:
Heaven [AAT 300185658] **Extent:** dedication
Chinese heaven [IA 901002236]
Note: Large religious complex in the old outer city
comprises three buildings are built in a straight line
Contributors:
JPGM; VP; GRISC; BHA; BWR;
Sources: Built Works Registry **BWR3792244**; Library of
Congress Authorities online (2002-) **n2011019454**;
Fodor's Travel (2016); J. Paul Getty Museum, collections
online (2000-); Great Buildings Online (1997-) ; UNESCO
World Heritage Centre [online] (1992-) **Ref: 881**

AAT
TGN
ULAN
CONA
CONA IA

View of the CONA hierarchy

Top of the CONA Hierarchy
.... **Built Works** (CONA facet)
............<**Built Works by class: religious, ceremonial, and funerary structures**>
.... **Aachener Dom (cathedral)**; by order of Charlemagne; 805; Aachen (Nordrhein-Westfalen, Deutschland)
.... **Abbadia San Salvatore (abbey)**; Creator: unavailable; 1035; Siena (Toscana, Ita...
.... **Abba Libanos Church (church)**; Creator: unavailable; 1299; Lalībela (Amara, Ity...
.... **Abbatiale Saint-Ouen (abbey)**; Jean de Bayeux I (French architect...; construct...
.... 16th centuries; Rouen (Haute-Normandie, France)
.... **Abbaye de la Chaise-Dieu (abbey)**; Robert Abbe of Saint-Dieu (died 1067?), Fr...
.... associat...; 1043; Departement de la Haute-Loire (Auvergne-Rhone-Alpes, France)

.... **Temenos of Demeter (sanctuary)**; Creator: unavailable; 200 BCE; Hellenistic; Bergama (Izmir, Turkiye)
.... **Tempel Synagogue (synagogue)**; Ignacy Hercok (Austrian-Polish architect); 1862; Cracow (Malopolskie, Polska)
.... **Temple du Devin (temple)**; Creator: unavailable; 1400 BCE; Maskanah (Ha...
.... **Temple Emanu-El (temple)**; Sylvain Schnaittacher; Bakewell & Brown; Be... G....; 1928; San Francisco (San Francisco, California, United States)
.... **Temple Emanuel (synagogue)**; Kohn, Robert D. (1870-1953), American, a... C...; 1929; New York (New York, United States)
.... **Temple of Apedemak (temple)**; unknown Nubian; mid 1st century CE; Athar an Naq'a (Nahr an Nil, As Sudan)
.... **Temple of Heaven (temple complex)**; first built by Ming Chengzu (1360-1424); extended by Ming Sh...; construction 1406 to 1420; ext...; Beijing (Zhongguo)
.... **Circular Mound Altar (altar)**; original construction: the Jiajing Emperor; built in 1530, rebuilt in 1740...; Beijing (Beijing Shi, Zhongguo)
.... **Hall of Prayer for Good Harvests (shrine)**; patron: Yongle Emperor of Ming Dynasty; 15th century; rebuilt after fire of 1889; Beijing (Zhongguo)
.... **Imperial Vault of Heaven (shrine)**; during the reign of the Yongle Emperor of Ming Dynasty; original, temple complex was c... Beijing (Zhongguo)
.... **Temple of Hephaestus (temple)**; Creator: unavailable; 444 BCE; Athens (Attiki, Ellas)
.... **Temple of Isis (temple)**; begun by Ptolemy II (Ancient Egyptian king, 309-246 BCE); late 2nd century BCE; Filah, Jazirat (Aswan, Misr, Africa, World)

- Indention: broader/narrower (instance or whole/part)
- Guide Terms in angled brackets
- Work Type in parentheses
- Concatenated "label"

Built Work
Temple of Heaven

Scope of CONA
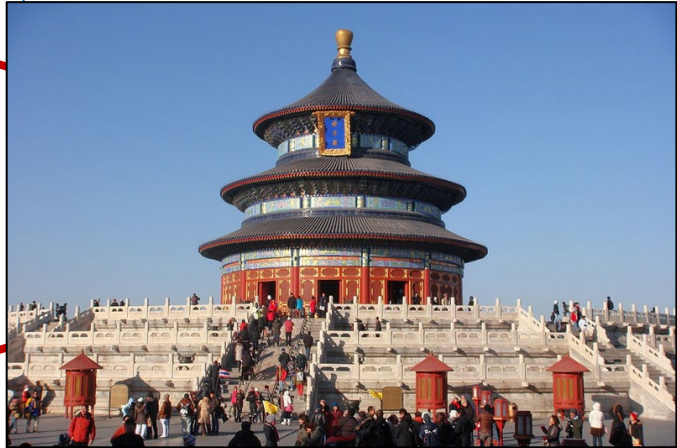
Recording information about lost works

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

Proposed reconstruction of Pisa Altarpiece, Masaccio
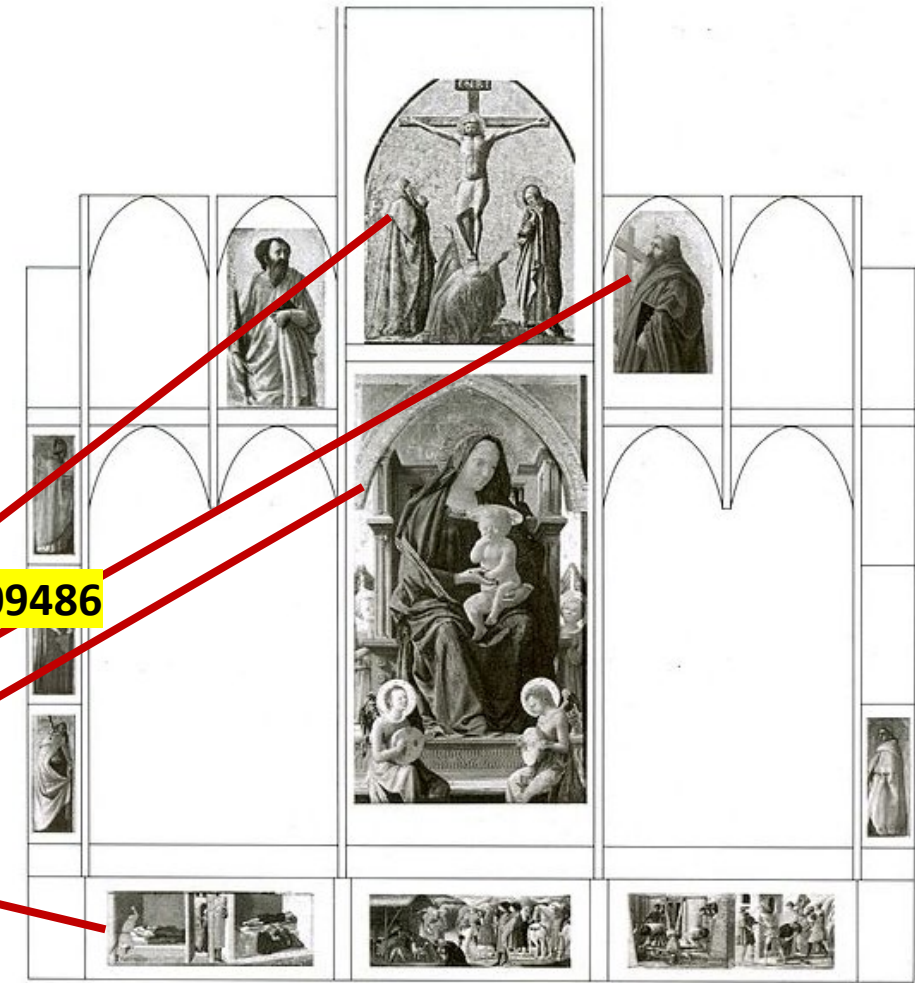
CONA ID 700009486 Proposed reconstruction of fragments of Masaccio's Pisan altarpiece (after C. Gardner von Teuffel 1977),

CONA

```
+    Movable Works (facet (controlled vocabulary); N/A; N/A)          700000002
+    Movable Works by class: drawings, paintings, prints, other tw     700009486
```

Pisa Altarpiece (disassembled work; Masaccio (Italian paint 700009486

```
     Adoration of the Magi [N] (paintings, panel (paintings by f  700009691
     Martyrdoms of St Peter and St Paul [N] (paintings, panel  700009690
     Saint Andrew [N] (painting (visual work); Masaccio (Flore  700002117
     Saint Paul [N] (paintings, panel (paintings by form); Mas  700009694
     St Julian and St Nicholas [N] (paintings, panel (paintings  700009692
     The Crucifixion [N] (paintings, panel (paintings by form);   700009693
     Virgin and Child [N] (paintings, panel (paintings by form);  700009689
```

Getty

Scope of CONA

Linking to works depicted in other works

- House is depicted in a drawing by the architect and a photograph by Julius Shulman

- Also for linking **visual surrogates** to the works depicted

CONA record for the house

CONA ID 700000090
Classification 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

preparatory for

based on

depicts

depicted in

CONA ID 700000120
Work Type: architectural drawing
Title
Cre
Cu
Co
Cal

CONA ID 700008539 Work Type:

Scope of CONA

Conceptual works, multiples, series of works

Thirty-six Views of Mount Fuji: First Series
.... Great Wave off Kanagawa (multiples)
.... 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]
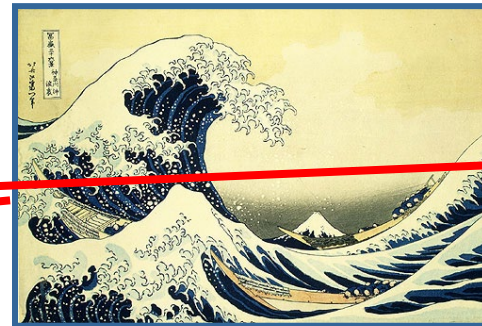
Unique physical item → conceptual record for print → a series

Conceptual works, multiples, series of works

---- series ----

Thirty-six Views of Mount Fuji: Print 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]
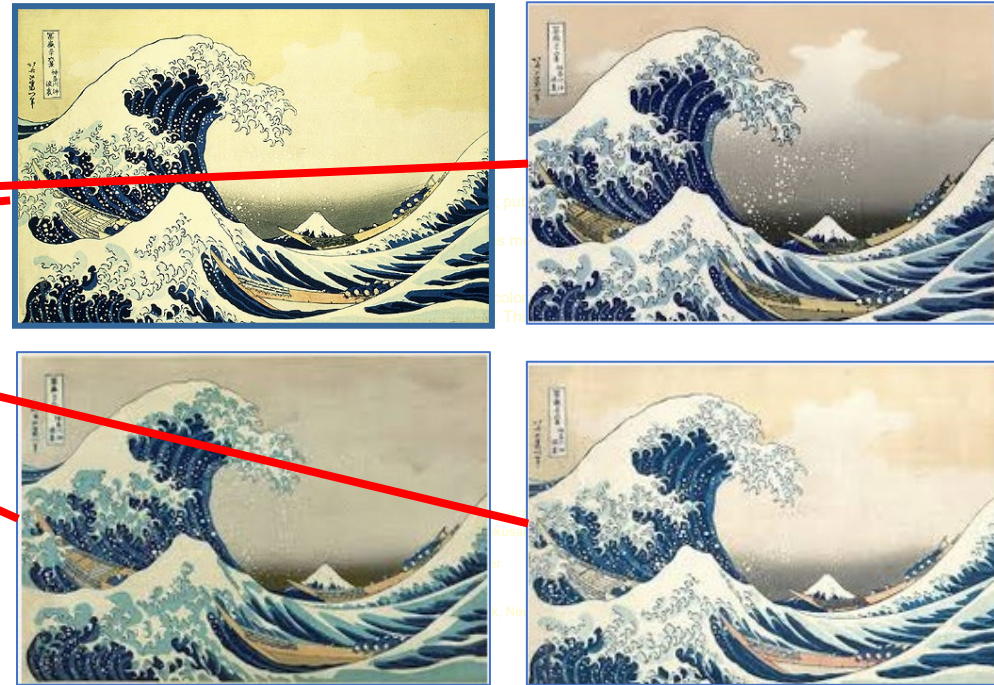
Unique physical item → conceptual record for print → a series

Getty

Goals and Mission

- **How to make the Vocabularies more**

Multilingual
Multicultural
Diversity
Inclusive
Equity
Unbiased
Antiracist
Accessible

Focus of Development

Number of Terms by Language in AAT

■ English ■ Chinese ■ Dutch ■ Spanish ■ German ■ Italian
■ French ■ Latin ■ Portuguese ■ Greek ■ Nahuatl ■ Other

Total Records by Nat/Culture/Eth in ULAN

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

- How to measure multiculturality?
- Historical content of Vocabs was often Western-centric
- What is the target? Comparison to similar resources and status of scholarly literature; plus broader aspirational goals

Getty

Goals and Mission

Focus of Development

- **How to make the Vocabularies more**

  Multilingual
  Multicultural
  Diversity
  Inclusive
  Equity
  Unbiased
  Antiracist
  Accessible

Number of Terms by Language in AAT

- English
- Chinese
- Dutch
- Spanish
- German
- Italian
- French
- Latin
- Portuguese
- Greek
- Nahuatl
- Other

Total Records by Nat/Culture/Eth in ULAN

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

Total users by country for online Vocab search
12 months

4847 4343 4025 3378 2196
5687
5809
6528
9125
79597

Getty Vocabularies
Users by country
4/2018 – 3/2019

- How to measure multiculturality?
- Historical content of Vocabs was often Western-centric
- What is the target? Comparison to similar resources and status of scholarly literature; plus broader aspirational goals

Getty
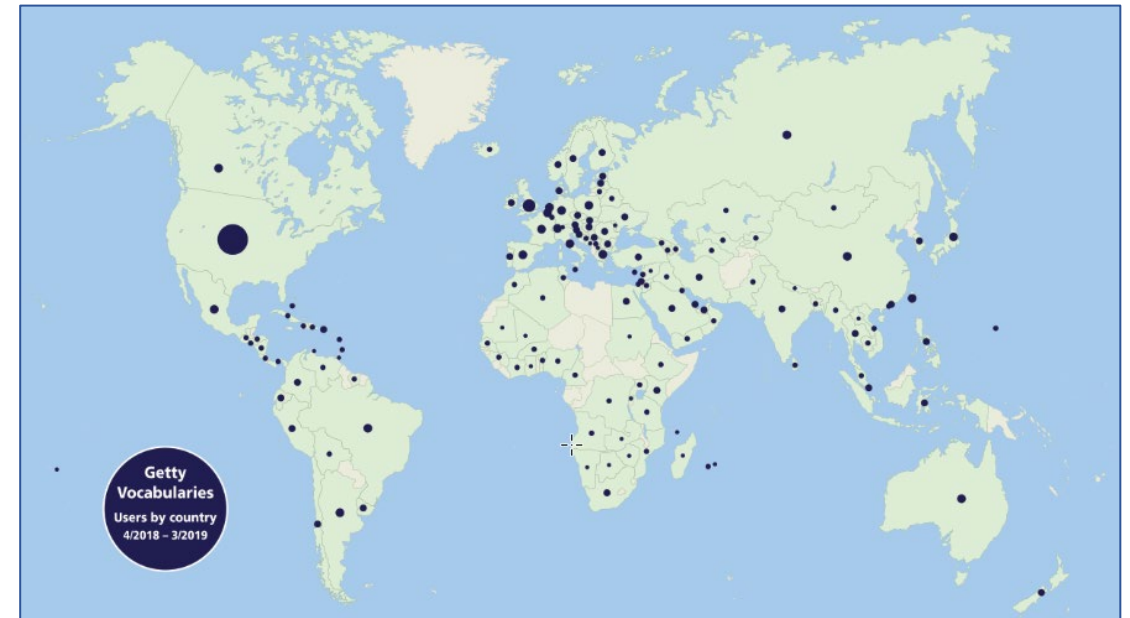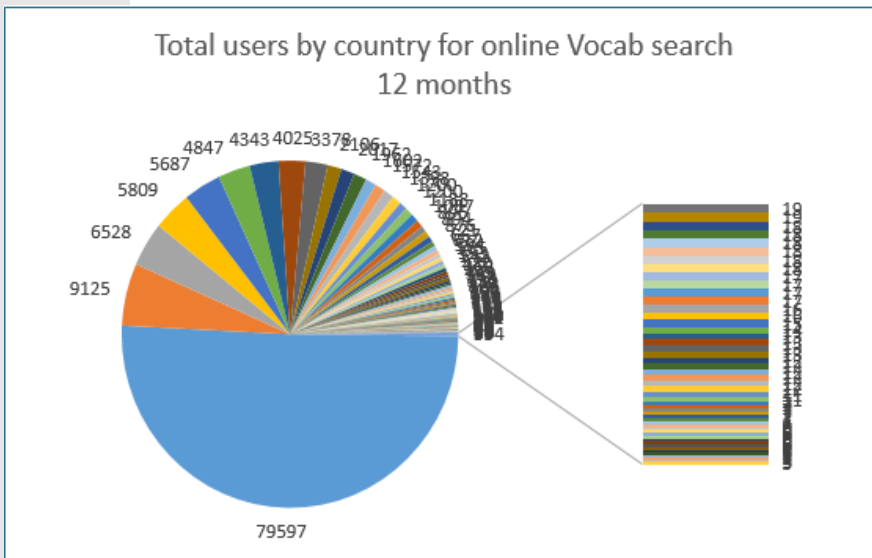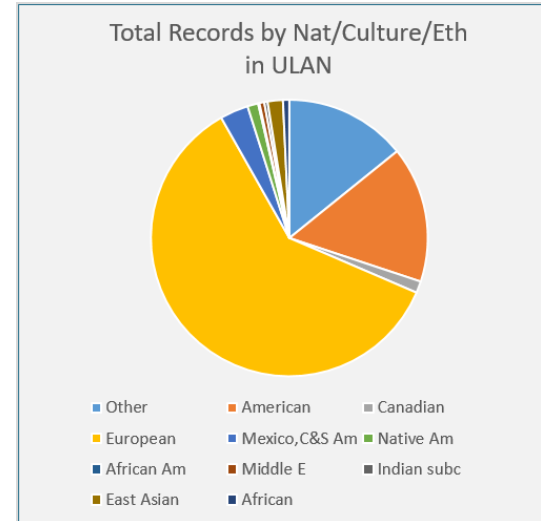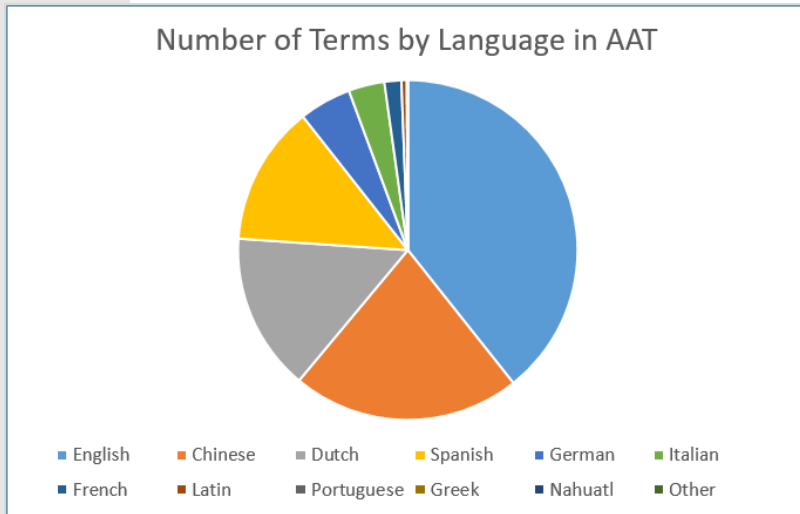
Contributors

- By contributing, contributors benefit from having their data incorporated in the greater whole of standard Vocabularies

- For their own use and for sharing with the broader community for linking, research, and discovery

- How to Contribute: Spreadsheets, XML format, online form

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

Multilingual
Multicultural
Diversity
Inclusive
Equity
Unbiased
Antiracist
Accessible

Getty

Who are the contributors?
- Getty projects
- 350 institutions, consortia, research projects

How is the data generated?
- Contrib. may research and create original data for the purpose of contribution
E.g., translations: Spanish, Dutch, Chinese, German, French, Croatian, Portuguese, Japanese, Hebrew, Arabic, Turkish

- Or may map data already collected in the course of their own work
E.g., repositories and documentation projects, research projects
- Contributions = 10s of thousands per year

Contributors to Getty Vocabularies

Provenance Index   GRI Photo Archive   GCI
GRI Special Collections   GRI Library   JPGM

Getty

Netherlands Institute for Art History (RKD)
Academia Sinica of Taiwan
Canadian Heritage Information Network
Avery Architectural & Fine Arts Library
Staatliche Museen zu Berlin Preussischer Kulturbesit
Ctro. de Documentación de Bienes Patrimoniales, Santia
Istituto Centrale per il Catalogo e la Documentazione, Rome
Courtauld Institute
Canadian Centre for Architecture (CCA)

National documentation agencies, consortia

Frick Art Reference Library
Indiana University Digital Collections
Harry Ransom Center, University of Texas at Austin
Bunting Visual Resources Library, U. of New Mexico

Image collections, libraries

Pinacoteca do Estado de São Paulo
Rijksmuseum in Amsterdam
Mystic Seaport Museum in Connecticut
Smithsonian National Museum of African Art

Art repositories

Grove Art online

Publishers

Florentine Codex Initiative (GRI)
Traditional Chinese Architecture (Vanderbilt, SEU)

Research projects, schols.

Getty

Contributors to Getty Vocabularies

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

Getty vocabularies merge contributed records

- 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

JPGM: tmsid_3041
Guardi, Francesco

Witt: WCI_20934875
Guardi, Francesco

Avery: avery_ 49856
Guardi, Francesco

BHA: bha_8476
Guardi, Francesco

GRIPA: pa_3874665
Guardi, Francesco

PROV: prov_7855
Guardi, Francesco

ULAN_500017409

Names:
    Guardi, Francesco
    Francesco Guardi
    Pgardi, 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

Getty

Issues re.
Using Getty Vocabularies
in Searching
Federated Databases

CDWA categories

- It is a comprehensive set of 540 elements
- 9 core elements

Categories for the Description of Works of Art

- Use CDWA to help federate DBs

- Common set of field names and definitions

Getty

Using Vocabularies for retrieval

Using Getty Vocabularies
to search across data
in federated DB
will improve results
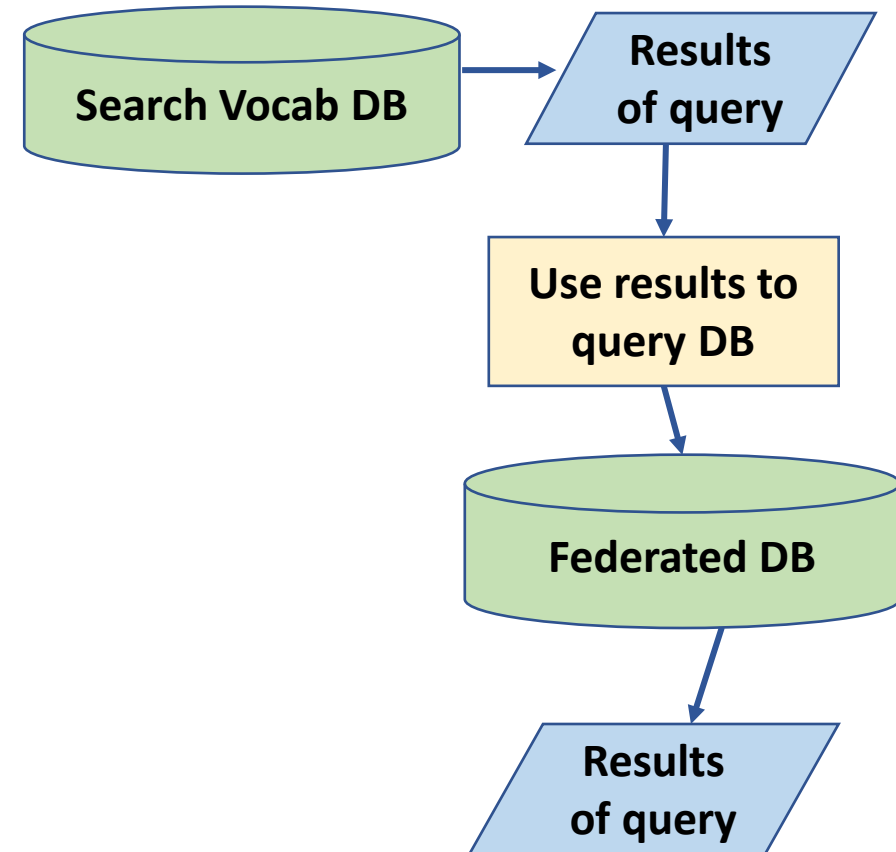
Issues: Searching texts = limited success in results

Catalog Level: item   **Classification:** paintings
Work Type:
 celestial globe

AAT 300015012

Title: Celestial Globe **Type:** repository **Lang.:** English
Title: Globe céleste **Type:** repository **Lang.:** French

Creator Display: designed and assembled by Jean-Ant...
Nicolas Bailleul le jeune; lacquer decoration attributed ...
Guillaume Martin
Index: Nollet, Jean-Antoine (French physicist, globe designer, ...
                Role: designer
Creation Date: 1730
    Index: Start Date: 1730 **End Date:** 1730
Descriptive Note:
Jean-Antoine Nollet designed and assembled this pair of
globes, which show maps of the earth's surface and skies.
This globe is one of a pair, printed paper with **ink**, papier-
mâché for the globe. For the stand, poplar, spruce, and
alder painted with vernis Martin; bronze elementsGlobes
frequently adorned the libraries of the aristocracy, lending
an air of scholarly respectability in an age when uncharted
territories around the world were being mapped and new
trade routes established. They frequently appeared …

ink (**preferred**,C,U,LC,English-P,D,U,SN)
墨水 (C,U,Chinese (traditional)-P,D,U,U)
油墨 (C,U,Chinese (traditional),UF,U,U)
墨汁 (C,U,Chinese (traditional),UF,U,U)
mò shuǐ (C,U,Chinese (transliterated Hanyu Pinyin)
mo shui (C,U,Chinese (transliterated Wade-Giles),U
                (Chinese (transliterated Pinyin without to
inkt (C,U,Dutch-P,D,U,U)
inchiostro (C,U,Italian-P,D,U,U)
Tinte (C,U,German-P,D,U,U)
encre (C,U,French-P,D,U,N)
blekk (C,U,Norwegian (Nynorsk)-P,AD,U,SN)
                (Norwegian (Bokmål)-P,AD,U,SN)
tinta (C,U,Spanish-P,D,U,U)

Catalog Level: item **Classification:** paintings
Work Type:
  celestial globe
Title: Celestial Globe **Type:** repository **Lang.:** English
Title: Globe céleste **Type:** repository **Lang.:** French

Creator Display: designed and assembled by Je...
engraved by Nicolas Bailleul le jeune; lacquer dec...
the Workshop of Guillaume Martin
Index: Nollet, Jean-Antoine (French physicist, globe d...
    Role: designer
Creation Date: 1730
    Index: Start Date: 1730 **End Date:** 1730

Materials Display:
  printed paper, ink, papier-mâché, poplar, spruce
  and alder painted with vernis Martin, bronze
  Index: papier-mâché
  Index: ink
  Index: poplar (wood)
  Index: vernis Martin
  Index: paper (fiber product)

AAT 300015012

ink (**preferred**,C,U,LC,English-P,D,U,SN)
墨水 (C,U,Chinese (traditional)-P,D,U,U)
油墨 (C,U,Chinese (traditional),UF,U,U)
墨汁 (C,U,Chinese (traditional),UF,U,U)
mò shuǐ (C,U,Chinese (transliterated Hanyu Pinyin)
mo shui (C,U,Chinese (transliterated Wade-Giles),
            (Chinese (transliterated Pinyin without to
inkt (C,U,Dutch-P,D,U,U)
inchiostro (C,U,Italian-P,D,U,U)
Tinte (C,U,German-P,D,U,U)
encre (C,U,French-P,D,U,N)
blekk (C,U,Norwegian (Nynorsk)-P,AD,U,SN)
            (Norwegian (Bokmål)-P,AD,U,SN)
tinta (C,U,Spanish-P,D,U,U)

Getty

Issues: Searching fielded data with or without reconciliation

Catalog Level: item   **Classification:** paintings
Work Type:
  celestial globe [AAT 300028090]

Title: Celestial Globe **Type:** repository **Lang.:** English
Title: Globe céleste **Type:** repository **Lang.:** Fren

AAT 300015012

Creator Display: designed and assembled by Je
engraved by Nicolas Bailleul le jeune; lacquer dec
the Workshop of Guillaume Martin
Index: Nollet, Jean-Antoine (French physicist, globe d
    [ULAN 500056987]   **Role:** designer
Creation Date: 1730
  Index: Start Date: 1730 **End Date:** 1730
Materials Display: printed paper, ink, papier-mâ
and alder painted with vernis Martin, bronze
  Index: papier-mâché [AAT 300014245]
  Index: ink [AAT 300015012]
  Index: poplar (wood) [AAT 300012363]
  Index: vernis Martin [AAT 300264025]
  Index: paper (fiber product) [AAT 300014

ink (<u>preferred</u>,<u>C</u>,<u>U</u>,<u>LC</u>,<u>English-P</u>,<u>D</u>,<u>U</u>,<u>SN</u>)
墨水 (<u>C</u>,<u>U</u>,<u>Chinese (traditional)-P</u>,<u>D</u>,<u>U</u>,<u>U</u>)
油墨 (<u>C</u>,<u>U</u>,<u>Chinese (traditional)</u>,<u>UF</u>,<u>U</u>,<u>U</u>)
墨汁 (<u>C</u>,<u>U</u>,<u>Chinese (traditional)</u>,<u>UF</u>,<u>U</u>,<u>U</u>)
mò shuǐ (<u>C</u>,<u>U</u>,<u>Chinese (transliterated Hanyu Pinyin)</u>
mo shui (<u>C</u>,<u>U</u>,<u>Chinese (transliterated Wade-Giles)</u>,<u>U</u>
    (<u>Chinese (transliterated Pinyin without to</u>
inkt (<u>C</u>,<u>U</u>,<u>Dutch-P</u>,<u>D</u>,<u>U</u>,<u>U</u>)
inchiostro (<u>C</u>,<u>U</u>,<u>Italian-P</u>,<u>D</u>,<u>U</u>,<u>U</u>)
Tinte (<u>C</u>,<u>U</u>,<u>German-P</u>,<u>D</u>,<u>U</u>,<u>U</u>)
encre (<u>C</u>,<u>U</u>,<u>French-P</u>,<u>D</u>,<u>U</u>,<u>N</u>)
blekk (<u>C</u>,<u>U</u>,<u>Norwegian (Nynorsk)-P</u>,<u>AD</u>,<u>U</u>,<u>SN</u>)
    (<u>Norwegian (Bokmål)-P</u>,<u>AD</u>,<u>U</u>,<u>SN</u>)
tinta (<u>C</u>,<u>U</u>,<u>Spanish-P</u>,<u>D</u>,<u>U</u>,<u>U</u>)

Getty

Issues: Searching by synonyms
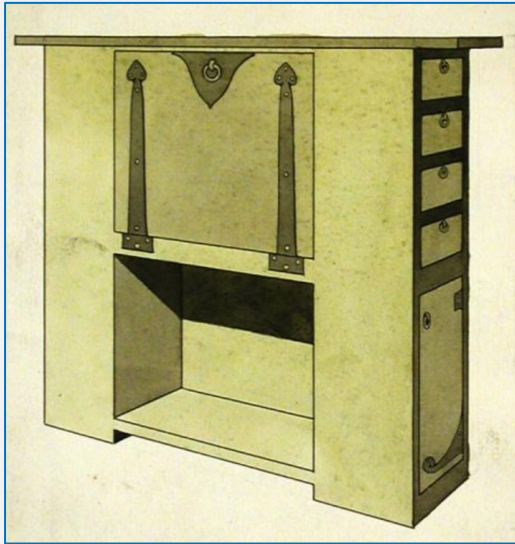
Title: **Design for drop-front desk**
Subject: **drop-front desk**
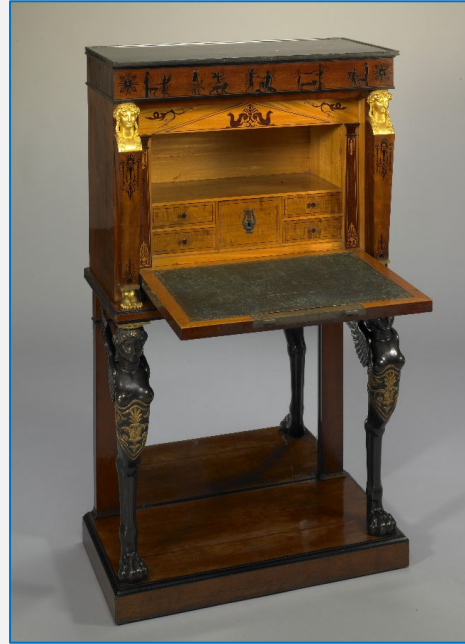
Work type: **fall-front desk**

Work type: **escritorio de tapa abatible**

ID: 300039521
Page Link: http://vocab.getty.edu/page/aat/300039521

⚓ **fall-front desks** (desks, case furniture, ... Furnishings and Equipment (hierarchy name))

Note: Desks with a hinged cover that may be lowered to form the writing surface or table.

fall-front desks (**preferred**,C,U,English-P,D,U,PN)
fall-front desk (C,U,English,AD,U,SN)
desks, fall-front (C,U,English,UF,U,N)
drop-front cabinets (C,U,English,UF,U,N)
drop front desks (desks) (C,U,English,UF,U,N)
drop-front desks (desks) (C,U,English,UF,U,N)
前蓋式寫字台 (C,U,Chinese (traditional)-P,D,U,U)
活動前板書桌 (C,U,Chinese (traditional),UF,U,U)
qián gài shì xiě zì tái (C,U,Chinese (transliterated Hanyu Pinyin)
qian gai shi xie zi tai (C,U,Chinese (transliterated Pinyin withou
ch'ien kai shih hsieh tzu t'ai (C,U,Chinese (transliterated Wade
uitklapbureaus (C,U,Dutch-P,D,U,U)
uitklapbureau (C,U,Dutch,AD,U,U)
calatoio (scrivania) (C,U,Italian,AD,U,SN)
escritorio de tapa abatible (C,U,Spanish-P,D,U,SN)

Issues
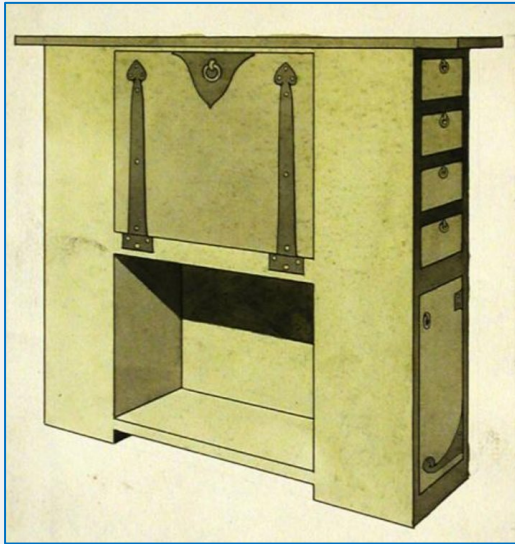
Title: Design for drop-front desk
Subject: drop-front desk

Work type: fall-front desk
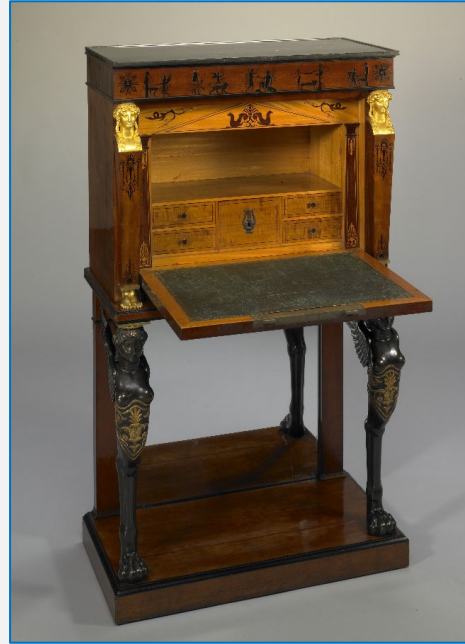
Work type: escritorio de tapa abatible

Work type: slant-front desk

Work type: secrétaire à abattant

Top of the AAT hierarchies
.... Objects Facet
.... Furnishings and Equipment (hierarchy name)
.... Furnishings (hierarchy name)
.... furnishings (works)
.... <furnishings by form or function>
.... furniture
.... <furniture by form or function>
.... <storage and display furniture>
.... case furniture
→ .... desks
.... bureau tables
.... counting-house desks
.... double counting-house desks
.... cylinder fall desks
.... bureaux à cylindre
.... ladies' cylinder writing tables
.... davenports (desks)
.... desks and bookcases

.... fall-front desks
.... secrétaires à abattant
.... slant-front desks
.... vargueños

Issues: Searching by associative relationships

Work type: tambour desk

ID: 300039545
Page Link: http://vocab.getty.edu/page/aat/300039545

Record Type: con

🔗 **tambour desks** (desks, case furniture, ... Furnishings and Equipment (hierarchy name))

Note: American desks with upright reeded or slatted shutters that cover up the nest of drawers and pigeonholes. Dis... e a modification of the cylinder desk with tambour shutters ins... desks" which close by means of a flexible shutter of convex sha...

tambour desks (preferred,C,U,Eng
tambour desk (C,U,English,AD,U,SI
desks, tambour (C,U,English,UF,U,I
desk, tambour (C,U,English,UF,U,N
活動門蓋寫字台 (C,U,Chinese (tradition
捲門桌 (C,U,Chinese (traditional),UF,U
huó dòng mén gài xiě zì tái (C,U,C
huo dong men gai xie zi tai (C,U,C
huo tung men kai hsieh tzu t'ai (C ...erated Hanyu Pinyin)-P,UF,U,U)
tambourbureaus (C,U,Dutch-P,D,U, ...erated Pinyin without tones)-P,UF,U,U)
tambourbureau (C,U,Dutch,AD,U,U ...nsliterated Wade-Giles)-P,UF,U,U)
bureau à rideau (C,U,French-P,AD,
escritorios de tambor (C,U,Spanis
escritorio de tambor (C,U,Spanish

Related concepts:
distinguished from .... **rolltop desks**
.... (desks, case furniture, ... Furnish chy name)) [300121499]
distinguished from .... **tambour writing tables**
.... (desks, case furniture, ... Furnish chy name)) [300039495]

Work type: **tambour desk**

Work type: **rolltop desk**

Issues: Searching by associative relationships

ID: 300039545
Page Link: http://vocab.getty.edu/page/aat/300039545

⬚ tambour desks (desks, case furniture, ... Furnishings and E

tambour desks (**preferred**,C,U,Eng
tambour desk (C,U,English,AD,U,SN
desks, tambour (C,U,English,UF,U,N
desk, tambour (C,U,English,UF,U,N
活動門蓋寫字台 (C,U,Chinese (tradition
捲門桌 (C,U,Chinese (traditional),UF,U
huó dòng mén gài xiě zì tái (C,U,C
huo dong men gai xie zi tai (C,U,C
huo tung men kai hsieh tzu t'ai (C
tambourbureaus (C,U,Dutch-P,D,U,
tambourbureau (C,U,Dutch,AD,U,U
bureau à rideau (C,U,French-P,AD,U
escritorios de tambor (C,U,Spanish
escritorio de tambor (C,U,Spanish

Related concepts:
distinguished from .... **rolltop desks**
.... (desks, case furniture, ... Furnishing
distinguished from .... **tambour writing tables**
.... (desks, case furniture, ... Furnishing

+

⬚ **rolltop desks** (desks, case furniture, ... Fur

Note: Desks that close by means of a flexible s
Distinguished from "tambour desks" which close

Terms:
rolltop desks (**preferred**,C,U,LC,English-P
rolltop desk (C,U,English,AD,U,SN)
desk, rolltop (C,U,English,UF,U,N)
desks, rolltop (C,U,English,UF,U,N)
desks, roll-top (C,U,English,UF,U,N)
roll-top desks (C,U,English,UF,U,N)
roll top desks (C,U,English,UF,U,N)
捲蓋式書桌 (C,U,Chinese (traditional)-P,D,U,U
活動頂蓋寫字台 (C,U,Chinese (traditional),UF,
活動捲蓋寫字台 (C,U,Chinese (traditional),UF,
捲蓋書桌 (C,U,Chinese (traditional),UF,U,U)
拉蓋書桌 (C,U,Chinese (traditional),UF,U,U)
juǎn gài shì shū zhuō (C,U,Chinese (trans
juan gai shi shu zhuo (C,U,Chinese (trans
chüan kai shih shu cho (C,U,Chinese (trar
rolluikbureaus (C,U,Dutch-P,D,U,U)
rolluikbureau (C,U,Dutch,AD,U,U)
secrétaire à cylindre (C,U,French-P,AD,U,N
escritorio de tapa enrollable (C,U,Spanis

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Getty Vocabularies OpenRefine Reconciliation

Issues:

Searching by reconciled data

Open Refine is an open-source tool for data cleanup and transformation

User's spreadsheet

N4

	Type	AlphaSort	DisplayName	Variants	Display Bio	FirstNam
2	Individual	Bell, John	John Bell		American, Hagerstown, Maryland 1800–1880 Waynesboro, Pennsylvania	John
3	Corporate Body	Bennett, E. & W., Pottery	E. & W. Bennett Pottery	Edwin Bennett Pottery; Edwin Bennett Pottery Company	American, Baltimore, Maryland 1847–1857	
4	Corporate Body	Webb & Sons, Thomas	Thomas Webb & Sons		British, founded 1837	
	Individual	Tyler, David	David Tyler		American, 1760–1804 Boston,	David

Sheet1

Getty

The Getty Research Institute

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Getty Vocabularies OpenRefine Reconciliation

Data managers, developers
Vocabularies may now do s
transformation.

- Experienced users of th
  the URL: http://servic
- Detailed instructions fo
  OpenRefine Tutorial (PD

Note: The tutorial doc
users.

Issues:

Searching by reconciled data

Open Refine is an open-source tool for data cleanup and transformation

---

OpenRefine Artist

Facet / Filter   Undo / Redo

Using facets and filter

Use facets and filters to sel
of your data to act on. Cho
filter methods from the men
of each data column.

Not sure how to get started
Watch these screencasts

Open... | Export ▾ | He

Extensions: Wikidata

‹ previous **1 - 50** next › la

Reconcile column "ARTIST NAME"

» Access Service API

Reconcile each cell to an entity of one of these types:

- ⦿ ULAN search
  /ulan
- ○ TGN search
  /tgn
- ○ AAT search
  /aat
- ○ Search all Vocabs
  /all

Also use relevant details from other columns:

Column	Include? As Property	
ARTISTBIRTH	☑	
ARTISTDEATH	☑	
ARTISTNATIONALITY	☑	
ARTISTGENDER	☑	

○ Reconcile against type: [   ]

○ Reconcile against no particular type

☐ Auto-match candidates with high confidence

Maximum number of candidates to return [   ]

Add Standard Service...   Start Reconciling | Cancel

Getty

Issues:
Searching by reconciled data

Reconciliation Service

Tamburini, Arno

F.A.Bridgeman

Capture the ID and other data

SPARQL end point

Demonstration project at GRI:
Using rich data of Getty Vocabularies to answer complex research questions on Provenance Index data and Getty Portal

http://vocab.getty.edu/queries#Finding_Subjects

Getty Vocabularies: LOD

SPARQL   Queries   [Any ▾]   [Search...]   [Search]   [Brief ▾]

1

☑ Include inferred

☐ Expand results over equivalent URIs

2   Finding Subjects

2.1   Top-level Subjects

The top-level Subjects of AAT are gvp:Facets, so the query is easy:

```
select * {?f a gvp:Facet; skos:inScheme aat: ; gvp:prefLa
```

The same holds of TGN (there's only two: World and Extraterrestrial

```
select * {?f a gvp:Facet; skos:inScheme tgn: ; gvp:prefLa
```

Getty

Demonstration

5.9   Non-Italians Who Worked in Italy
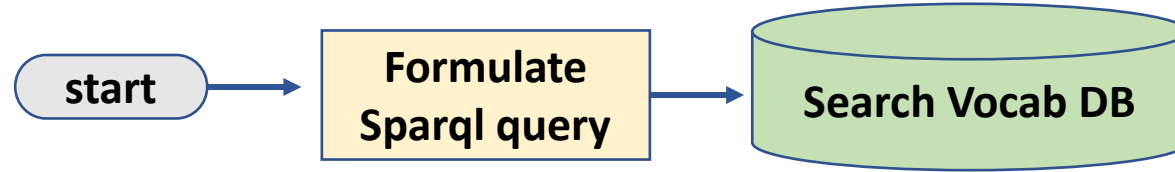Find non-Italians who worked in Italy and lived during a given time range
·   Having event that took place in tgn:1000080 Italy or any of its descendants
·   Birth date between 1250 and 1780
·   Just for variety, we look for artists as descendants of facets ulan:500000003 "Corporate bodies" or ulan:500000002 "Persons, Artists", rather than having type "artist" as we did in previous queries. In the previous query we used values{..} but we here use filter(in(..)).
·   Not having nationality aat:300111198 Italian or any of its descendants

Demonstration project at GRI:
Using rich data of Getty Vocabularies to answer complex research questions on Provenance Index data and Getty Portal

Getty

Issues: Searching by rich data in Vocabularies

start → Formulate Sparql query → Search Vocab DB
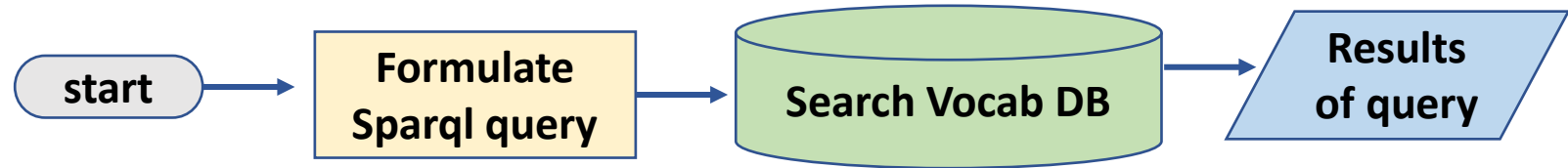
You can edit the variables to customize the query

```
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}}
```

Demonstration

Issues: Searching by rich data in Vocabularies

5.9   Non-Italians Who Worked in Italy
Find non-Italians who worked in Italy and lived during a given time range
·   Having event that took place in tgn:1000080 Italy or any of its descendants
·   Birth date between 1250 and 1780
·   Just for variety, we look for artists as descendants of facets ulan:500000003 "Corporate bodies" or ulan:500000002 "Persons, Artists", rather than having type "artist" as we did in previous queries. In the previous query we used values{..} but we here use filter(in(..)).
·   Not having nationality aat:300111198 Italian or any of its descendants

Demonstration project at GRI:
Using rich data of Getty Vocabularies to answer complex research questions on Provenance Index data and Getty Portal

start → Formulate Sparql query → Search Vocab DB → Results of query

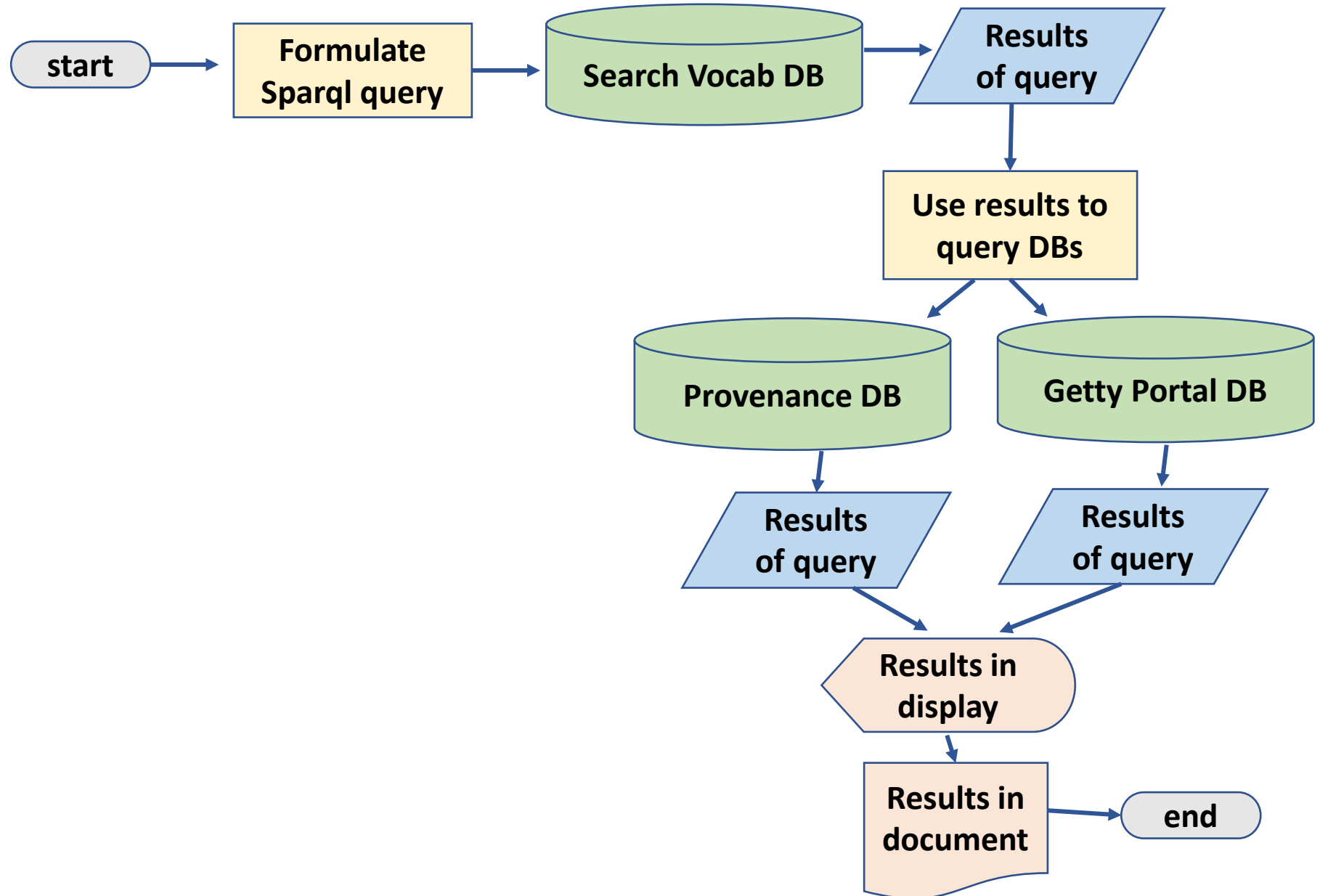| x	name	bio
ulan:500000100	Withoos, Matthias@nl	Dutch painter, 1627-1703, active in Italy
ulan:500000267	Mignard, Pierre, I	French painter and portraitist, 1612-1695
ulan:500000317	Baltard, Louis Pierre@nl	French painter, engraver, and architect, 1764-1846
ulan:500000352	Gaap, Johann Adolf	German goldsmith, 1667-1724, active in Italy
ulan:500000432	Herr, Michael	German painter and draftsman, 1591-1661
ulan:500000650	Schoel, Hendrick van@nl	Dutch printmaker, draftsman, and publisher, died 1622
ulan:500000840	Saint-Non, Jean-Claude-Richard de	French antiquary and printmaker, 1727-1791

Demonstration

5.9 Non-Italians Who Worked in Italy
Find non-Italians who worked in Italy and lived during a given time range
· Having event that took place in tgn:1000080 Italy or any of its descendants
· Birth date between 1250 and 1780
· Just for variety, we look for artists as descendants of facets ulan:500000003 "Corporate bodies" or ulan:500000002 "Persons, Artists", rather than having type "artist" as we did in previous queries. In the previous query we used values{..} but we here use filter(in(..)).
· Not having nationality aat:300111198 Italian or any of its descendants

Demonstration project at GRI:
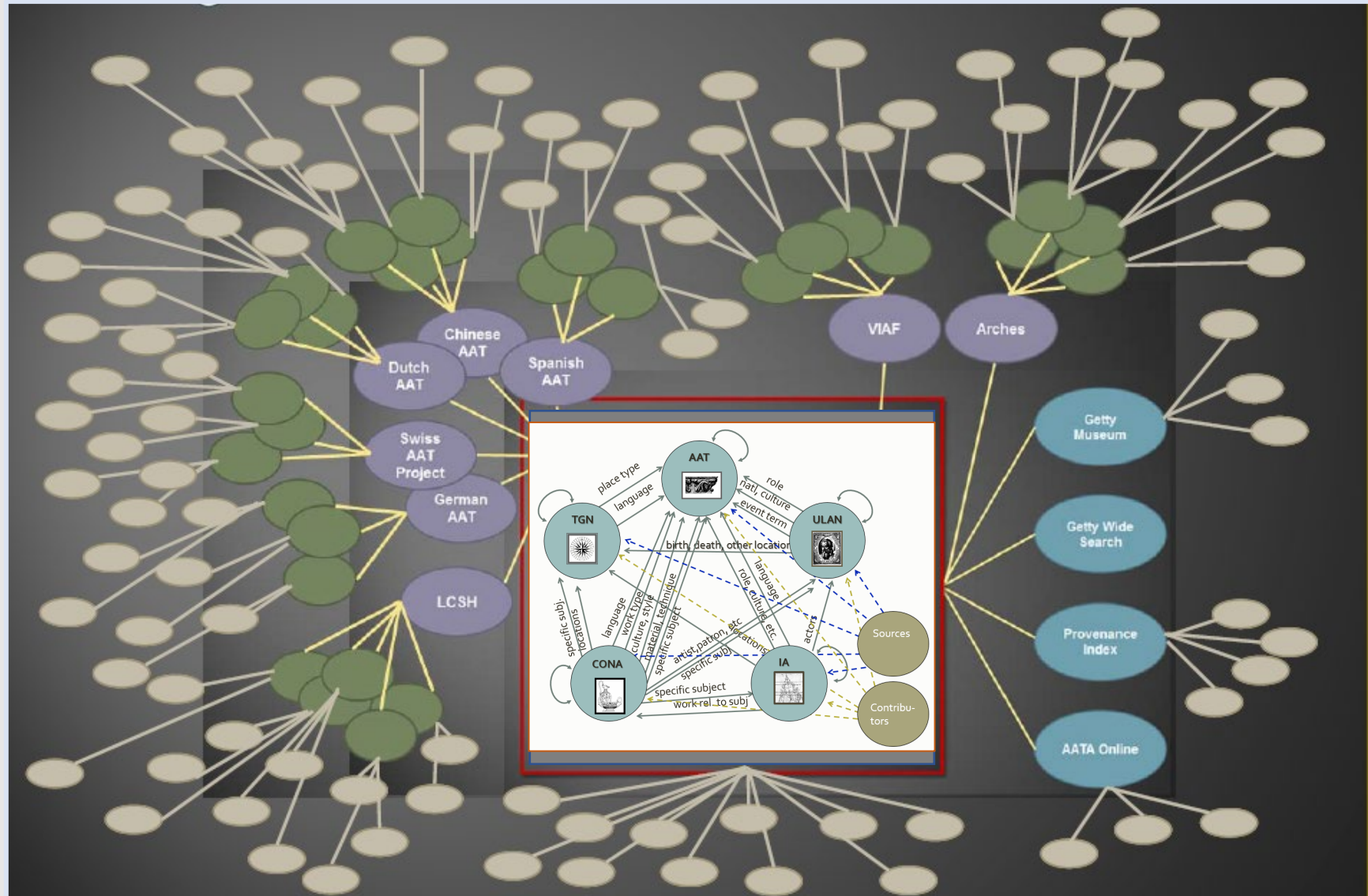Using rich data of Getty Vocabularies to answer complex research questions on Provenance Index data and Getty Portal

Getty

Issues: Searching by rich data in Vocabularies

start → Formulate Sparql query → Search Vocab DB → Results of query

Results of query → Use results to query DBs

Use results to query DBs → Provenance DB, Getty Portal DB

Provenance DB → Results of query

Getty Portal DB → Results of query

Results of query → Results in display

Results in display → Results in document → end

*not federated

Adding coreferences to broaden retrieval and discovery

Improving interconnectivity:

Linking Getty Vocabularies to other resources

Issues: Searching by coreferences and links

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

Getty

Thank you.

Patricia Harpring
Managing Editor
Getty Vocabulary Program

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