Workshop: Digital Art History and the Getty Vocabularies

CAA 2020

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15 February 2019

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Agenda

→ Introduction to the Getty Vocabularies

→ Using Vocabularies to advance scholarship

→ How to use the Getty Vocabularies OpenRefine Reconciliation service

→ Q & A

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BIG QUESTION(S)

→Why should the Getty Vocabularies matter to you?

→How can they help you advance scholarship?

→How can you incorporate them into your ongoing practices?

ISSUE BRIEF

November 28, 2018

Scholars ARE Collectors: A Proposal for Re-thinking Research Support

Danielle Cooper, Oya Y. Rieger

DOI: https://doi.org/10.18665/sr.310702

Topics: Collections and preservation, Digital scholarship and data management, Discovery and access, Libraries, Research practices, Scholarly communication

Tags: Research Support Services

+ Table of Contents

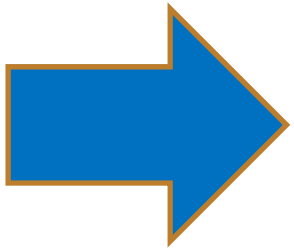
After fifteen years of digging into the research practices of scholars at Ithaka S+R, it is clear that scholars are collectors. We have found that they are creating and amassing increasingly complex personal collections of information over the course of their careers. These collections vary widely depending on the discipline and take many forms, including digitized archival materials, numeric data sets from experiments, audio recordings of interviews, field notes from research sites, and visual materials.

Messy, unworkable data

Artist Display Name	Artist Display Bio	Artist Suffix	Artist Alpha Sort	Artist Nationality	Artist Begin Date	Artist End Date	Object Date	Object Begin Date	Object End Date	Medium	Dimensions	Credit Line
James Barton Longacre	American, Delaware County, Pennsylvania 1794–1...	NaN	Longacre, James Barton	American	1794	1869	1853	1853	1853	Gold	Dimensions unavailable	Gift of Heinz L. Stoppelmann, 1979
Christian Gobrecht	1785–1844	NaN	Gobrecht, Christian	NaN	1785	1844	1901	1901	1901	Gold	Dimensions unavailable	Gift of Heinz L. Stoppelmann, 1980
NaN	NaN	NaN	NaN	NaN	NaN	NaN	1909–27	1909	1927	Gold	Diam. 11/16 in. (1.7 cm)	Gift of C. Ruxton Love, Jr., 1967
NaN	NaN	NaN	NaN	NaN	NaN	NaN	1909–27	1909	1927	Gold	Diam. 11/16 in. (1.7 cm)	Gift of C. Ruxton Love, Jr., 1967

Structured Data

And now you can find the gaps….
Work with it…
Draw conclusions. …



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NaN	NaN	NaN	NaN	NaN	NaN	NaN	1909–27	1909	1927	Gold	Diam. 11/16 in. (1.7 cm)	Gift of C. Ruxton Love, Jr., 1967
NaN	NaN	NaN	NaN	NaN	NaN	NaN	1909–27	1909	1927	Gold	Diam. 11/16 in. (1.7 cm)	Gift of C. Ruxton Love, Jr., 1967

How to get from
Here to There?

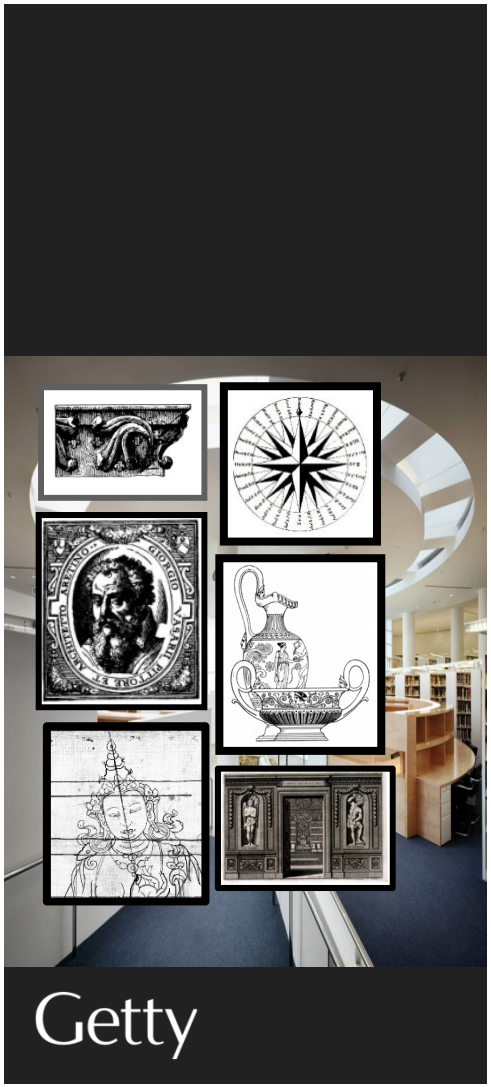
Getty Vocabularies

The Getty Vocabularies are available as Linked Open Data, XML, Relational Tables, and through APIs. Learn more.

ARE HERE TO HELP!

Introduction to the Getty Vocabularies

Getty

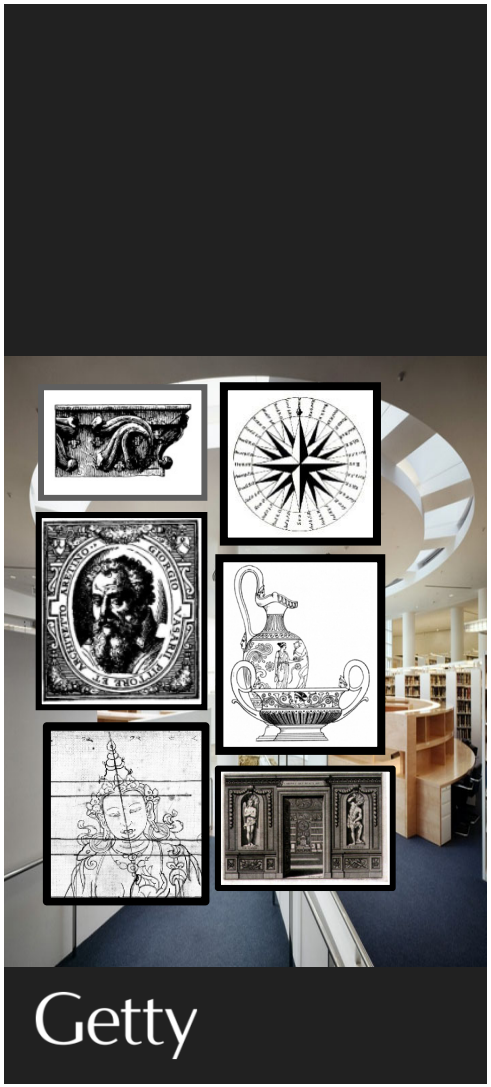


What Are Controlled Vocabularies?

- A controlled vocabulary is an organized arrangement of words and phrases
- Typically includes preferred and variant terms
- Has a defined scope or describes a specific domain

Purpose of Controlled Vocabularies

- To provide terminology to catalog, document, retrieve, categorize, and discover information
- To capture the richness of variant terms
- For some users, to promote consistency in assignment of terms
- In retrieval and discovery, to utilize variant terms and broader/narrower contexts as **structured vocabularies**



What Are the Getty Vocabularies?

- **Structured vocabularies**
- **Relationships**: Thesauri, 3 relationships: equivalence (synonyms), hierarchical (broader-narrower), associative (btwn records, not hierarchical)
- **Standards-compliant**: Comply with standards for controlled vocabularies (ISO, NISO)
- **Authoritative**: Vocabularies cite authoritative sources and contributors; but not authoritarian (may use variant terms)
- **Scope**: Getty Vocabularies strive to be ever more multilingual, multicultural, and inclusive → ***contributions***
- **Audience**: Traditional audience (art and architecture domains: visual resources, catalogers, museums), plus scholars, and related disciplines (archaeology, conservation)
- **Collaborative**: Grow through contributions from expert user community: institutions, consortia, and projects

Contributors to Vocabularies

Who are the contributors?
- Getty projects
- 300 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
- 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

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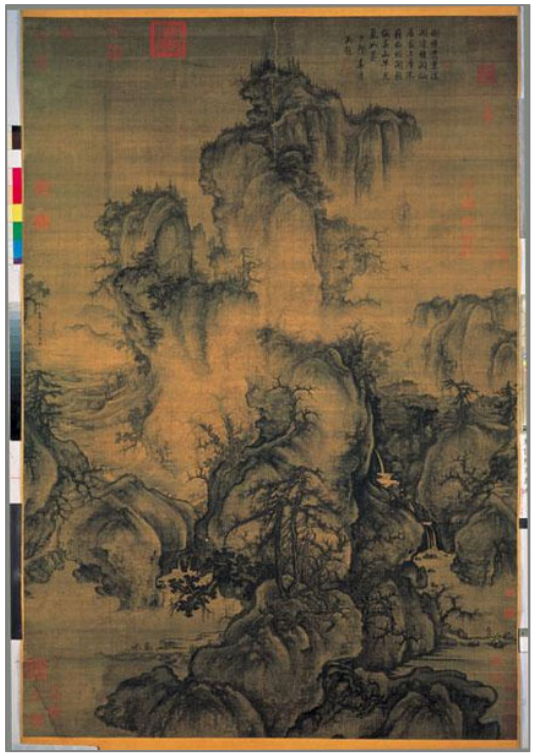
Provenance Index	GRI Photo Archive	GCI	**Getty**
GRI Special Collections	GRI Library	JPGM	
Netherlands Institute for Art History (RKD)			**National documentation agencies, consortia**
Academia Sinica of Taiwan			
Canadian Heritage Information Network			
Avery Architectural & Fine Arts Library			
Staatliche Museen zu Berlin Preussischer Kulturbesit			
Ctro. de Documentación de Bienes Patrimoniales, Santiago			
Istituto Centrale per il Catalogo e la Documentazione, Rome			
Courtauld Institute			**Image collections, libraries**
Canadian Centre for Architecture (CCA)			
Frick Art Reference Library			
Indiana University Digital Collections			
Harry Ransom Center, University of Texas at Austin			
Bunting Visual Resources Library, U. of New Mexico			
Pinacoteca do Estado de São Paulo			**Art repositories**
Rijksmuseum in Amsterdam			
Mystic Seaport Museum in Connecticut			
Smithsonian National Museum of African Art			
Grove Art online			**Publishers**
Florentine Codex Initiative (GRI)			**Research projects**
Traditional Chinese Architecture (Vanderbilt, SEU)			

Getty Vocabularies Used in an Object Record

Catalog Level: item **Classification:** paintings
Work Type:
painting (visual work) [AAT 300033618]
scroll (information artifact) [AAT 300028629]

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

Creator Display: Guo Xi, Song Dynasty
Index: Guo Xi (Chinese painter, 1023 - ca.1085 CE) **[ULAN 500125758]**
Role: artist
Creation Date: 1072 CE; fifth year of Xining, first era of the Shenzong Emperor, Northern Song Dynasty
Index: Start Date: 1072 **End Date:** 1072
Materials Display: painted scroll
Index: color (pigment) [AAT 300264870]
Index: ink [AAT 300015012]
Index: silk (silkworm material) [AAT 300014072]
Index: paper (fiber product) [AAT 300014109]

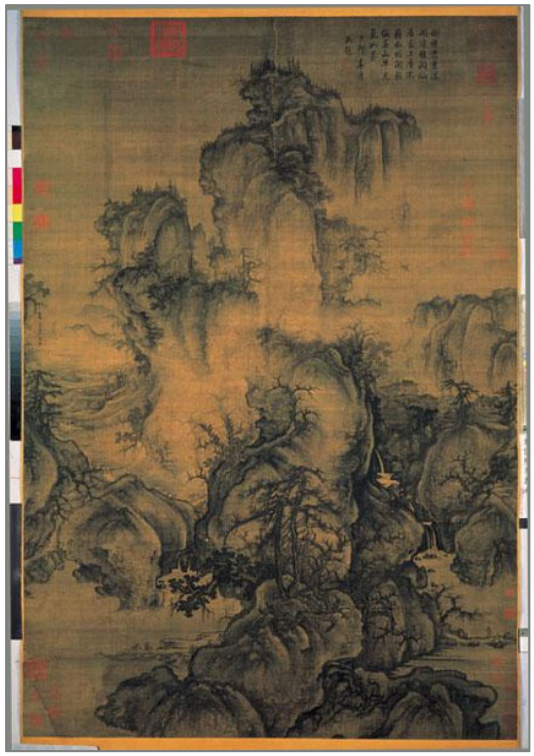


http://vocab.getty.edu/page/cona/700002851

Getty

[continued] **Getty Vocabularies Used in an Object Record**

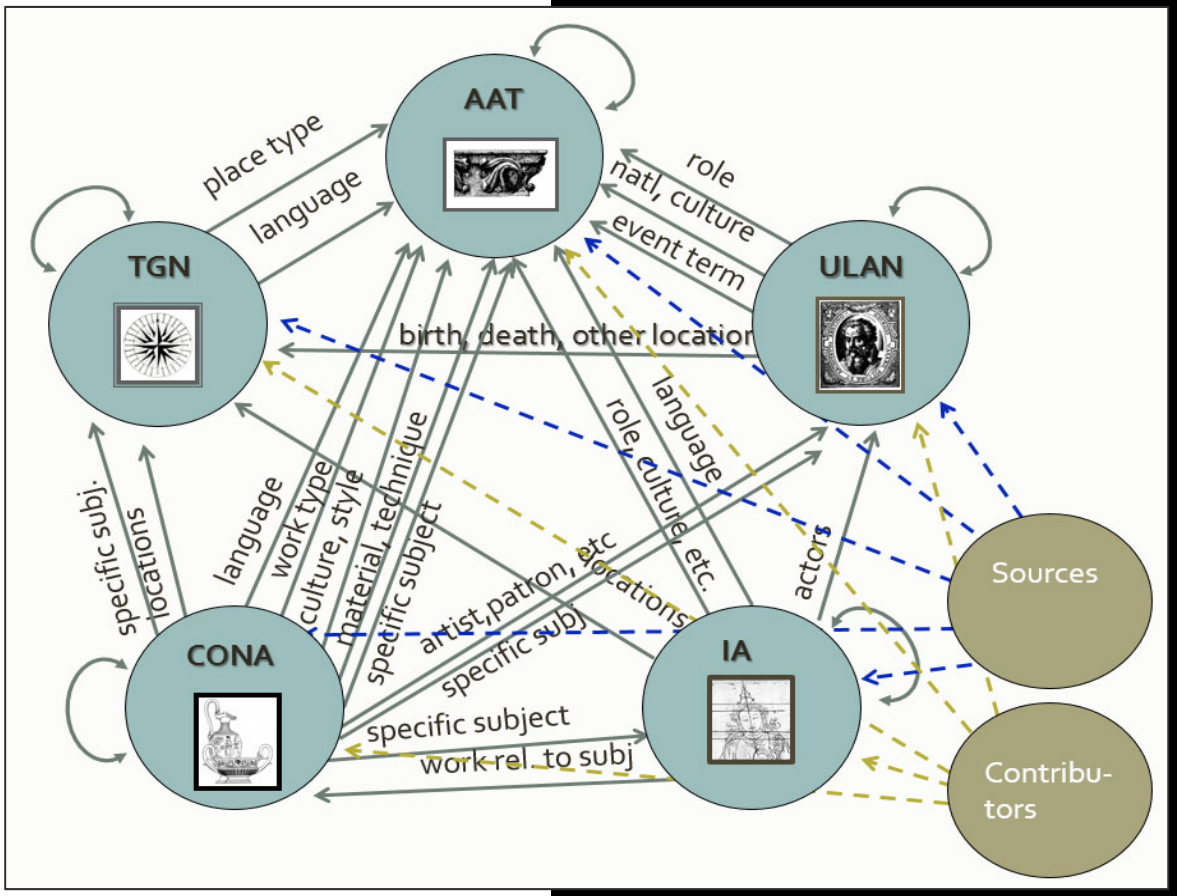
Dimensions: 158.3 x 108.1 cm
Index: **Value:** 158.3 **Unit:** cm **Type:** height
Index: **Value:** 108.1 **Unit:** cm **Type:** width **[TGN 1000959]**
Location: National Palace Museum (Taipei, Taibei, Taiwan)
[ULAN 500309392] **Type:** current
Repository No.: Meta Data identification: 000053N000000000
Credit Line: National Palace Museum
Inscription: On the right side, the painter wrote: "Early Spring. Painted by Guo Xi in the year of Ren-Zi (49th year of the Chinese sexagenary cycle, referring to 1072 AD)."; 畫幅右側畫家自題：「早春。壬子（1072）年郭熙畫。」顧名思義，這幅畫作是在描寫瑞雪消融，雲煙變幻，大地復甦，草木發枝，一片欣欣向榮的早春景象
General Subject: landscapes
Specific Subjects: **Renewal of Life [IA 901002238]**
spring (season) [AAT 300133097] | **shan shui [AAT 300387301]**
trees [AAT 300132410] | **streams [AAT 300008699]**
Pinus (genus) [AAT 300343658] | **travel [AAT 300080094]**
floating perspective [AAT 300438516] Extent: design element
Descriptive Note: "Early Spring" is here conceived of as a mist and forest filled mountain. The brushwork registers infinite variations of pressure and ink: the silhouette of the rocks and boulders are delineated with a heavy touch, the fog-washed trees with a light one….
Sources: National Palace Museum database (2008-); Yangqiu, Viewing Metaphor: Work of Early Spring (2010)



http://vocab.getty.edu/page/cona/700002851

Getty Vocabularies' relationships

- Diagram illustrates how the Getty Vocabularies contain rich relationships
- Linked to each other
- Linked to other resources, through LOD



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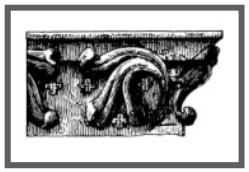
Getty

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

What is AAT?



AAT, the Art & Architecture Thesaurus®

The AAT is a thesaurus containing **generic terms**, dates, relationships, related to art, architecture, conservation, other cultural heritage

- Used or work types, roles, materials, styles, cultures, techniques, etc.
- Generic terms, not proper names
- Multilingual; large translation projects are underway
- Facets are the upper levels of the AAT structure
- AAT is not organized by subject matter or discipline

Facets of the AAT

Associated Concepts	*Physical Attributes*	*Styles and Periods*	*Agents*	*Activities*	*Materials*	*Objects*	*Brand Names*

AAT Sample Record

AAT, Art & Architecture Thesaurus®

http://vocab.getty.edu/page/aat/300041363

- [partial record]
- preferred term is flagged, but not required to use it; based on local rules
- IDs for record and for terms

ID: 300190536

Terms:

steel engravings (pref, en) [1000041363]
Qualifier: visual works
steel engraving (en) [1000299348]
Qualifier: visual work
鋼版刻印 (zh) [1000551901]
gāng bǎn kè yìn (zh) [1000551903]
staalgravures (nl) [1000482814]
gravures sur acier (fr) [1000304335]
grabados al acero (es) [1000429838]
Stahlstiche (de) [1000655952]

Associative Relationships

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

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: Koschatzky, Die Kunst der Graphik (1988); Lucie-Smith, Thames & Hudson Dictionary of Art Terms (1986); Newman, Innovative Printmaking (1997)

Getty

View of the AAT hierarchy

Top of the AAT hierarchies
.... Objects Facet
..... Visual and Verbal Communication (hierarchy name)
..... Visual Works (hierarchy name)
..... visual works (works)
..... <visual works by material or technique>
..... photographs
..... <photographs by technique>
..... <photographs by picture-taking technique>
..... aerial photographs
..... chronophotographs
..... instantaneous photographs
..... motion photographs
..... photobooth pictures
..... photomicrographs
..... radiographs
..... beta radiographs
..... x-radiographs
..... snapshots
..... space photographs
..... staged photographs
..... stereoscopic photographs
..... anaglyphs
..... half stereographs
..... parallax stereograms
..... stereographs
..... tissue stereographs

- Sub-facets (called “hierarchies”) establish the context of the term
- Guide terms in angled brackets

Work type:
stereoscopic photograph

View of the terms for a concept in AAT record

http://vocab.getty.edu/page/aat/300162872

AAT subject_id **300162872**

- Terms for a single item, language
- Some systems or local cataloging rules do not allow linking at the term level

Terms:

stereoscopic photographs (**preferred**,C,U,English-P,D,U,PN)
stereoscopic photograph (C,U,English,AD,U,SN)
stereoview (C,U,English,AD,U,SN)
photographs, stereoscopic (C,U,English,UF,U,N)
stereograms (stereoscopic photographs) (C,U,English,UF,U,N)
stereo pairs (C,U,English,UF,U,N)
stereophotographs (C,U,English,UF,U,N)
stereo photographs (C,U,English,UF,U,N)
stereos (photographs) (C,U,English,UF,U,N)
stereo views (C,U,English,UF,U,N)
stereoviews (C,U,English,UF,U,N)
sterescopic views (C,U,English,UF,U,N)
views, stereo (C,U,English,UF,U,N)
stereofoto's (C,U,Dutch-P,D,U,U)
stereofoto (C,U,Dutch,AD,U,U)
stereoscoopfoto (C,U,Dutch,UF,U,U)
stereoscoopfoto's (C,U,Dutch,UF,U,U)
stéréogramme (C,U,French-P,AD,U,MSN)
coppie stereoscopiche (C,U,Italian-P,D,U,PN)
fotografías estereoscópicas (obras visuales) (C,U,Spanish-P,D,U,PN)
fotografía estereoscópica (obra visual) (C,U,Spanish,AD,U,SN)

Work type:
stereoscopic photograph

Achilles Painter
Abasi, Riza
رضا عباسی
An Qi
安岐
Bartolo di Fredi
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

What is ULAN?

ULAN, the Union List of Artist Names®

ULAN contains **personal names**, relationships, biographical information for artists, architects, firms, studios, repositories, patrons, sitters, both named and anonymous

- For people and corporate bodies associated with the creation of art, architecture, and related disciplines
- Includes current and historical associative relationships (e.g., students to teachers; firm and studios to members)

ULAN Sample Record

ULAN, the Union List of Artist Names®
http://vocab.getty.edu/page/ulan/500060426

Linked to other vocabularies, Other resources (LOC)

ID: 500060426

Names:

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

Hokusai (en,ja-trans) [1500235408]

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

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]

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)

Scope of ULAN

Persons, Artists

.....Agami, Alyssa (Mexican sculptor, born 1955)
.....Abbate, Ercole dell' (Italian painter, 1563/1573-1613)
.....Abeyta, Narciso (Native American painter, 1918-1998)
..... Ashmolean Master (Early Cycladic sculptor, active 25th century BCE)
..... An, Yuan (Chinese architect, active 1404-1420)

Corporate Bodies

.....Abbate family, dell' (Modenese painters, active 16th-17th centuries)
.....Abbot Hall Art Gallery (British museum, contemporary)
.....Abdullah Freres (Turkish photography and painting studio,1858-1899)

Non-Artists

.....Aah-Hotep, Queen (Egyptian queen, ca. 1560- 1530 BCE)
.....Abelard, Peter (French theologian, philosopher, 1079-1142)
.....Ancaster, Mary Bertie, Duchess of (English aristocrat, died 1793)

Unidentified Named People and Firms

.....Abady, Sheila (artist)
.....Abramo, Monsù (Italian painter, 17th century)
…….Facius, Friedrich Wilhelm (artist, born 1764)

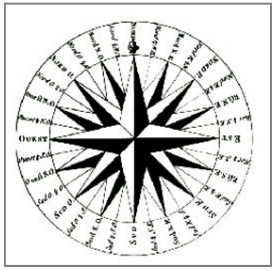
Unknown People by Culture

.....unknown Abakwariga (Abakwariga cultural designation)
..... unknown Abbasid (Abbasid cultural designation)
..... unknown Abbevillian (Abbevillian cultural designation

Getty

Abthugni
Angel Falls
Athínai
Αθήναι
Bhārat
Býčí Skála
Bora-Bora
Casablanca
Chichén Itzá
Cueva Cerro Sota
Donner Pass
Dos Cabezas Site
Firenze
Fort Rouillé
Gdansk
Genna Bogai, Arcu
Святой Престол
Jabal Mayyah
Kush
Luxor
מִישְׂרָאֵל
Mare Cantabricum
Nan Madol Ruins
Rapa Nui
臺北

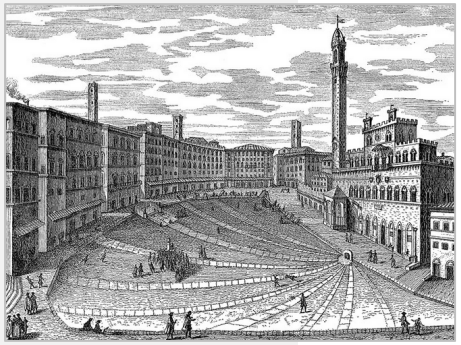
What is TGN?



TGN, Getty Thesaurus of Geographic Names®

TGN contains **place names** relevant to art, architecture, and related disciplines

- Names, relationships, place types, dates, notes, and coordinates
- Scope includes cities, nations, empires, physical features
- Focus on historical information, for regions, archaeological sites, lost settlements
- Built upon a skeleton of the modern world
- Thesaurus compliant with ISO standards
- TGN is not GIS, but may be linked to GIS, maps, etc.



TGN Sample Record

TGN, Getty Thesaurus of Geographic Names®

http://vocab.getty.edu/page/tgn/7011179

Linked to other vocabularies,
Other resources (LOC, NGA)

ID: 7011179

Names:
Siena (pref,it,en) [47413]
Sienna [140808]
Sienne (fr) [1002860953]
Σιένα (el) [1002038443]
锡耶纳 (zh) [1002038446]
Сиена (ru) [1002038445]
Siyenah (he) [1002038442]
סיינה (he) [1002038444]
シエーナ (ja) [1002038441]
Sienese (adj) (en) [1159549]
Senae (hist.) ***Date:*** Medieval [181416]
Sena Julia (hist.) (la) [181415]
Sena (hist.) (Etruscan) [181414]

Hierarchical Relationships (poly.)

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

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

Associative Relationships

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

Place Types

inhabited place settled by Etruscans
(flourished by 6th century BCE)
city
archiepiscopal see
commune (administrative) since 1125
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 ...

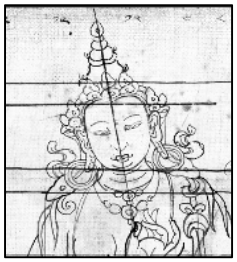
Contributors:
VP,BHA, Avery,GRI

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)

Getty

Adorazione dei Magi
Apedemak
Baby Jaguar
Death and the Miser
Ehecatl
Ganesh
Hades
Hercules
Herakles
Mithras
Niflheim
Noli me tangere
Olouaipipilele
Prajnaparamita
Penance of Indra
Reclining Buddha
Bouddha couché
涅槃仏
Storming the Bastille
The Divine Comedy
Tumatauenga
Virgin Hodegetria
World War I
Xibalba

What is IA?



IA, the Getty Iconography Authority ™

IA contains **iconography names** describing topics relevant to art, architecture, and related disciplines

- Includes the proper names of subjects not covered by other Getty Vocabularies
- Includes multilingual proper names, relationships, and dates
- For iconographical narratives, religious or fictional characters, themes, historical events, and named literary works and performing arts

Bhimesvara Temple
Bradshaw rock paintings
Case Study House 21
Château de Versailles
Empire State Building
En liberté comme toi
Himeji Castle
姬路城
Irises
Kashmir Gate
Mona Lisa
La Gioconda
Model for the Façade of San Lorenzo
MS Ludwig XV
Pantheon
Portrait of Napoleon
Ronda di notte
Square Ting Vessel of Duke Kang
西周早期 康侯方鼎

What is CONA?

CONA, Cultural Objects Name Authority®

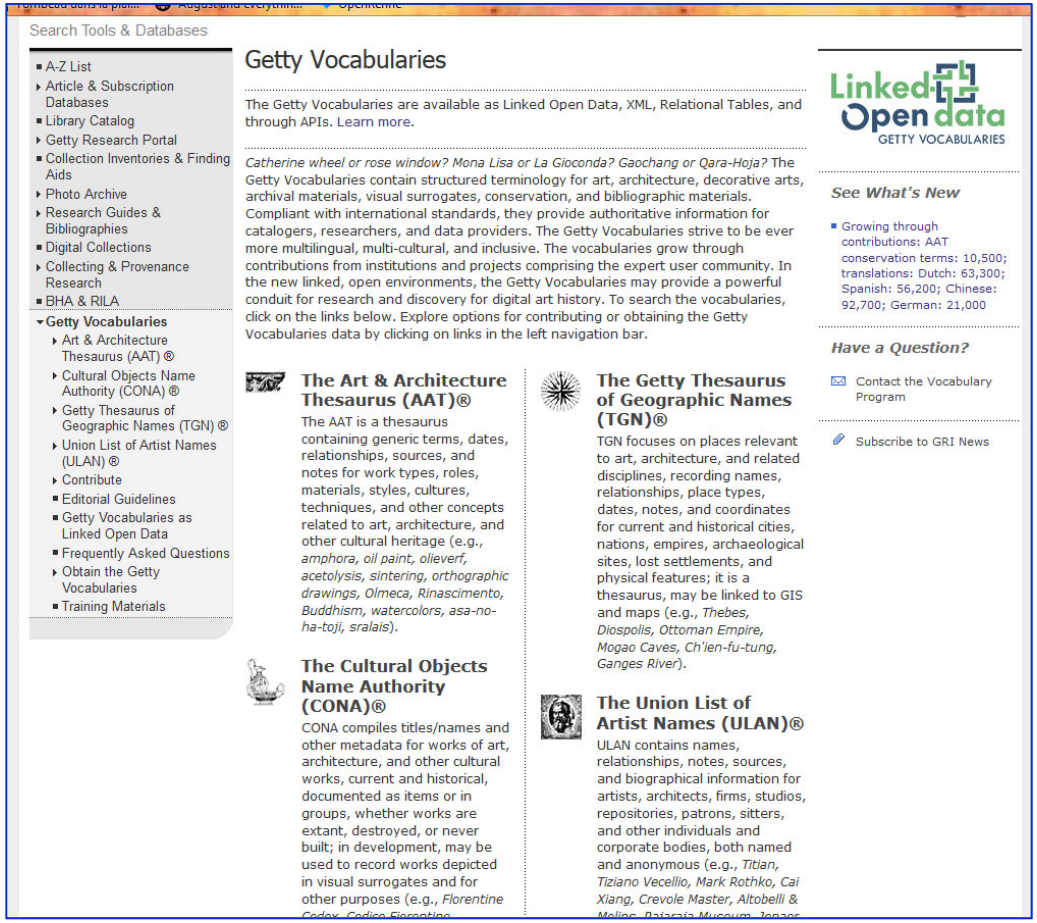
CONA compiles **titles/names** with other metadata for works of art, architecture, and other cultural works

- For works current and historical, documented as items or in groups, whether extant, destroyed, or never built
- New resource that may be used to record works depicted in visual surrogates, multiples (prints), architecture, and for other purposes

- → **Online search**
- → **Editorial guidelines**
- → **Training materials**
- → **Contribute**
- → **Obtain**

vocab@getty.edu

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



Getty

Using Vocabularies to advance scholarship

Getty

MICRO LEVEL EXAMPLES

- Historic name variants for an artist
- Most appropriate noun to describe an object, material, process, etc.
- Translations of terms associated with art and architecture

MACRO LEVEL EXAMPLES

- To structure and manage heterogenous data
- To apply digital humanities approaches and import data into digital humanities tools

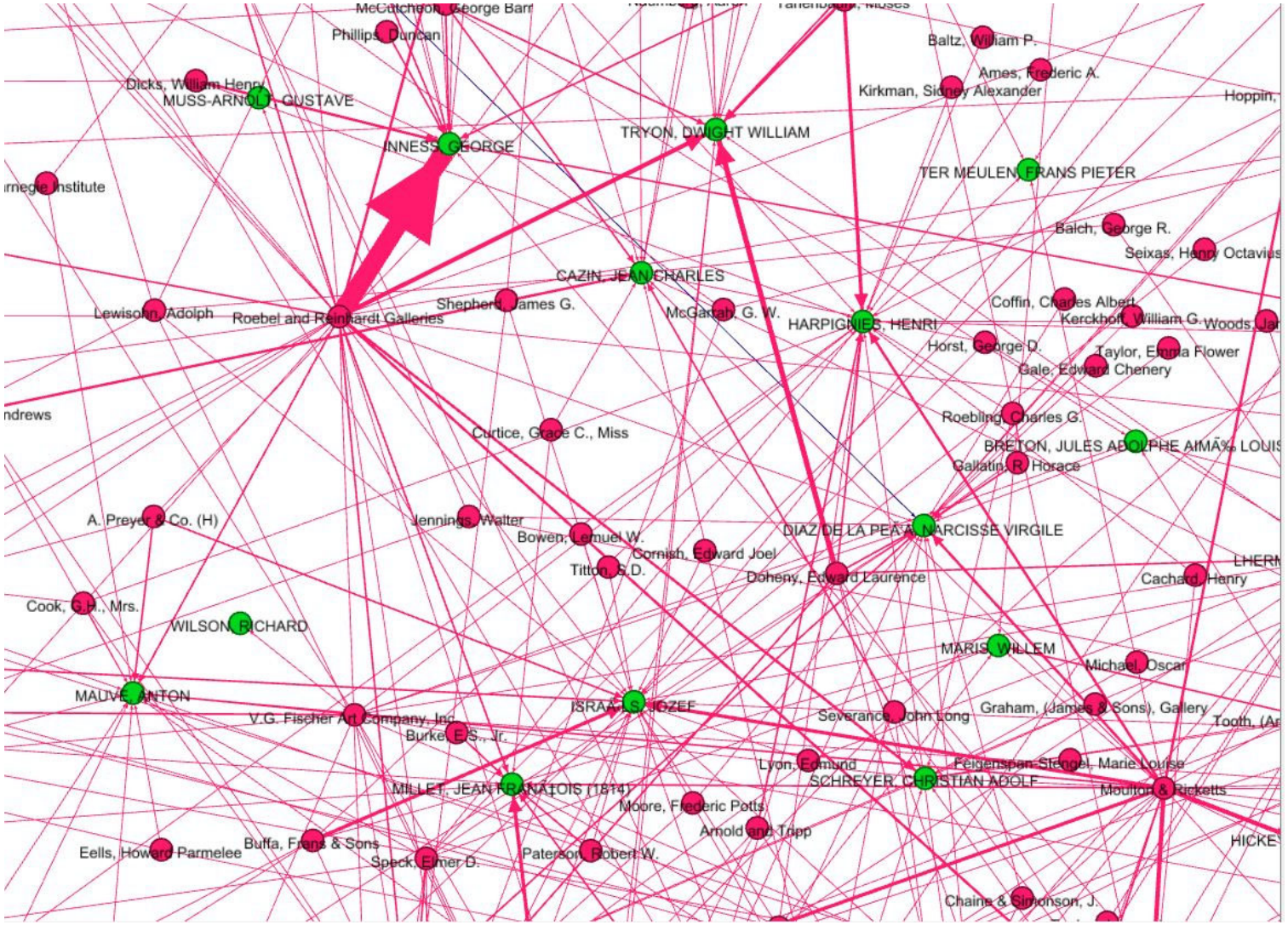
Network Analysis: Knoedler Stockbooks, 1870-1920

Must standardize the following fields in the database, extracted from the stockbook pages, so that the computer can match

- Artist (including all name variants)
- Artist Nationality
- Sale/Purchase Geographic locations
- Buyer names
- Seller names
- Currencies

Working over 40,000 transactions
Using Getty's OpenRefine service when feasible

Getty


Phillips, Duncan
Dicks, William Henry
MUSS-ARNOLT, GUSTAVE
INNESS, GEORGE
TRYON, DWIGHT WILLIAM
Baltz, William P.
Ames, Frederic A.
Kirkman, Sidney Alexander
TER MEULEN, FRANS PIETER
Balch, George R.
CAZIN, JEAN-CHARLES
Lewisohn, Adolph
Roebel and Reinhardt Galleries
Shepherd, James G.
McGarrah, G. W.
HARPIGNIES, HENRI
Coffin, Charles Albert
Kerckhoff, William G.
Horst, George D.
Taylor, Emma Flower
Gale, Edward Chenery
Roebling, Charles G.
Curtice, Grace C., Miss
Gallatin, R. Horace
A. Preyer & Co. (H)
Jennings, Walter
Bowen, Lemuel W.
Cornish, Edward Joel
Titton, G.D.
DIAZ DE LA PEÃ, NARCISSE VIRGILE
Doheny, Edward Laurence
Cachard, Henry
Cook, G.H., Mrs.
WILSON, RICHARD
MARIS, WILLEM
Michael, Oscar
MAUVE, ANTON
ISRAELS, JOZEF
V.G. Fischer Art Company, Inc.
Burke, E.S., Jr.
Severance, John Long
Graham, (James) & Sons), Gallery
Lyon, Edmund
Feigenspan-Stangel, Marie Louise
SCHREYER, CHRISTIAN ADOLF
Moulton & Ricketts
MILLET, JEAN FRANÇOIS (1814)
Moore, Frederic Potts
Arnold and Tripp
Eells, Howard Parmelee
Buffa, Frank & Sons
Speck, Elmer D.
Paterson, Robert W.
Chaine & Simonson, J.

How to use the Getty Vocabularies Open Refine Reconciliation service

Getty

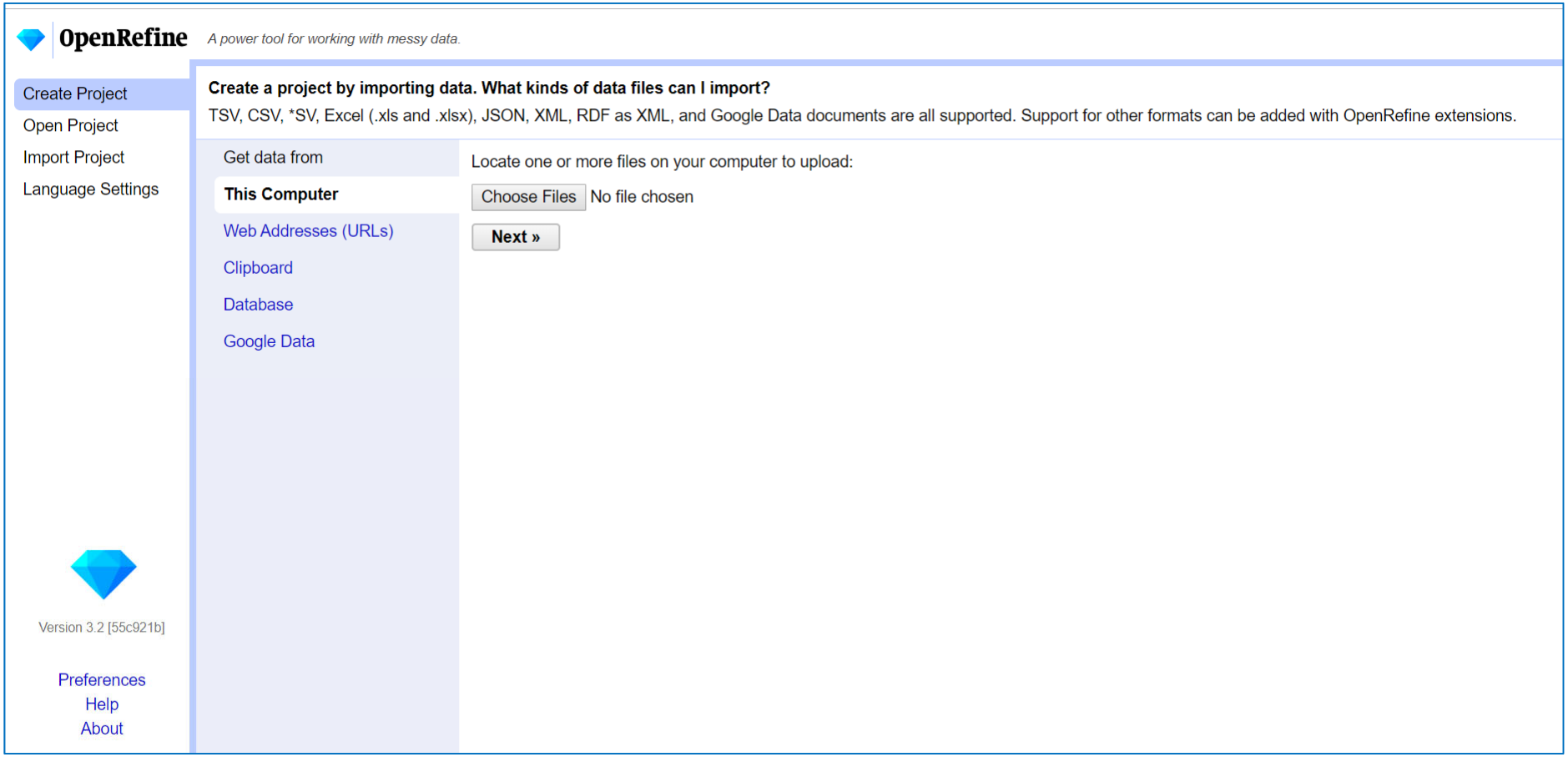
Cleaning/Reconciling data

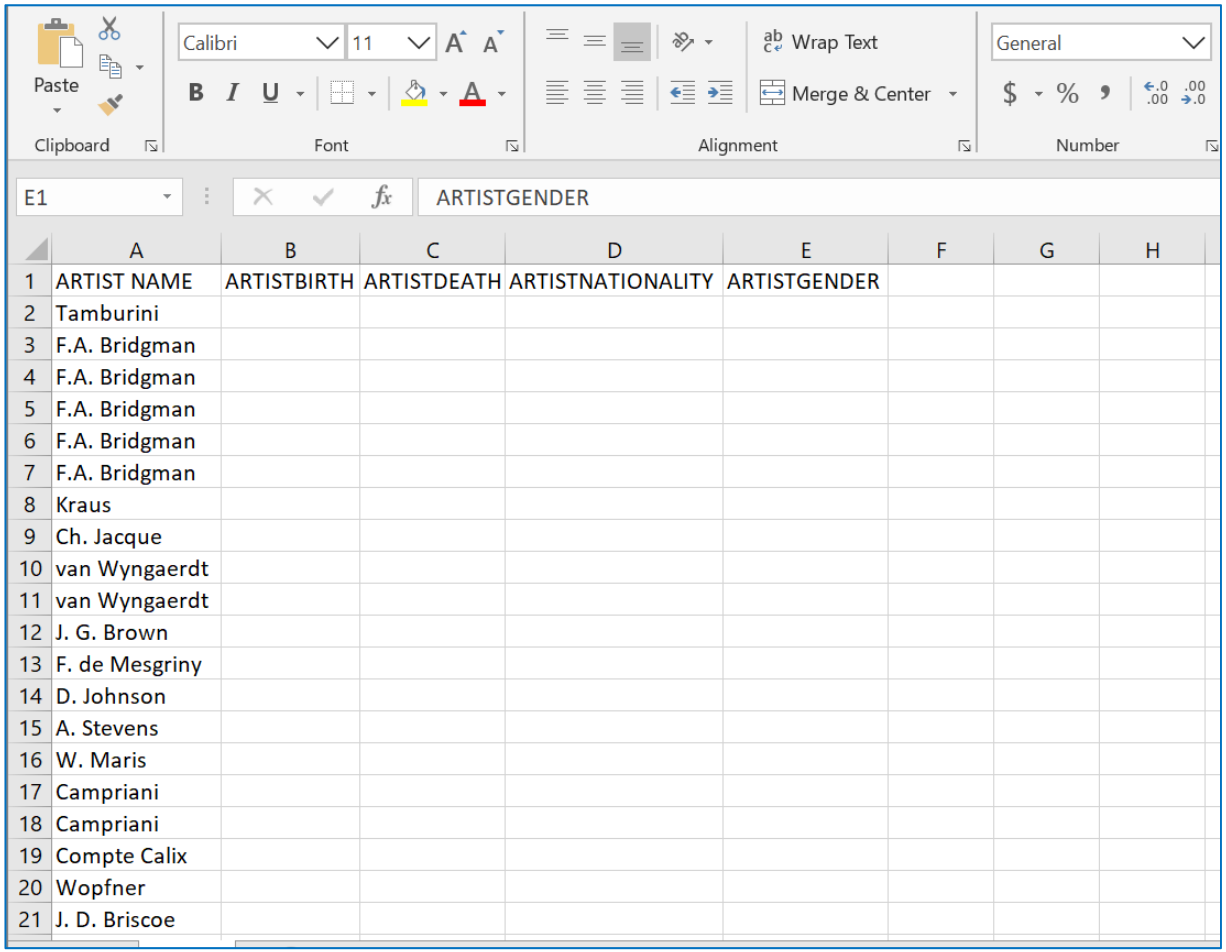
- OpenRefine.org
  - Supports multiple languages
  - Supports different data types
  - Can export your project
  - Has reconciliation services with various relevant authorities, e.g.
    - Wikidata
    - VIAF
    - Library of Congress subject headings

Getty Vocabularies
Open Refine Reconciliation service

- https://www.getty.edu/research/tools/vocabularies/obtain/openrefine.html
- Tutorial: https://www.getty.edu/research/tools/vocabularies/obtain/getty_vocabularies_openrefine_tutorial.pdf

- Today- keeping it very simple; can work with further OpenRefine expressions to refine/clean data

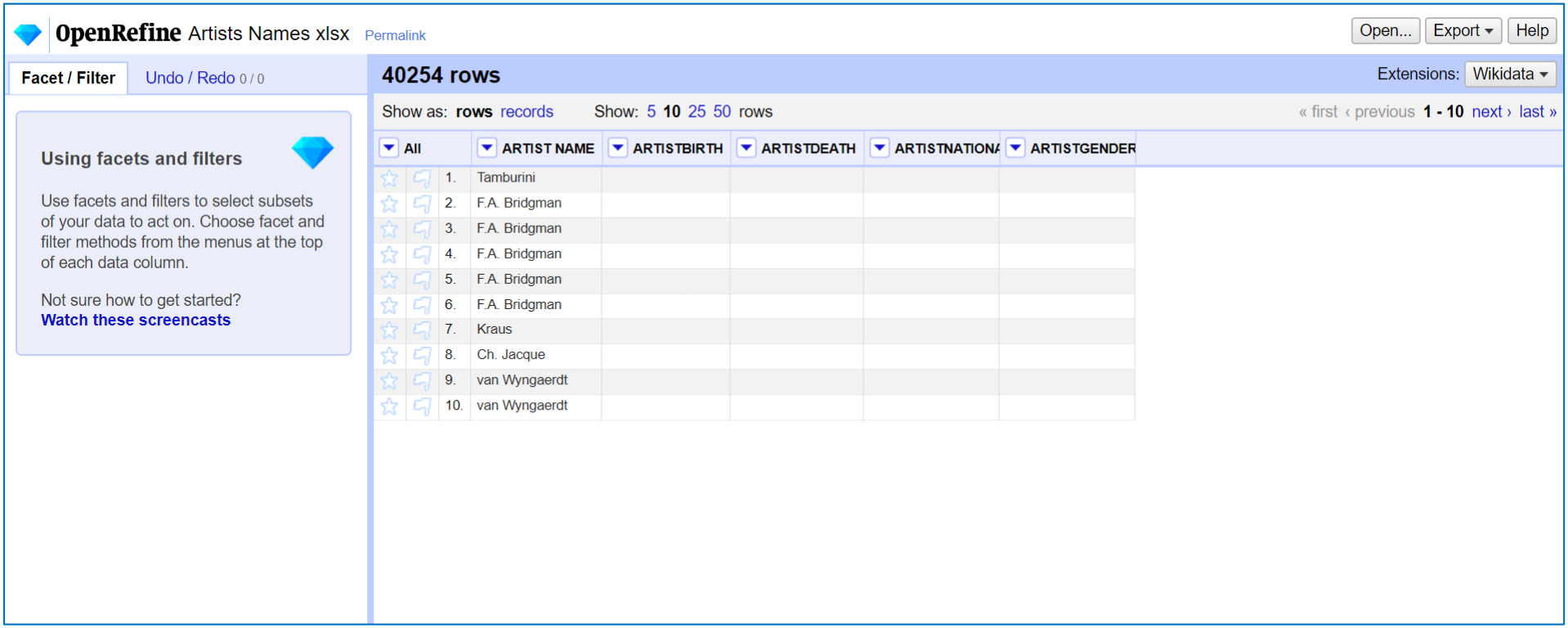

OpenRefine
A power tool for working with messy data.
Create Project
Open Project
Import Project
Language Settings
Version 3.2 [55c921b]
Preferences
Help
About
Create a project by importing data. What kinds of data files can I import?
TSV, CSV, *SV, Excel (.xls and .xlsx), JSON, XML, RDF as XML, and Google Data documents are all supported. Support for other formats can be added with OpenRefine extensions.
Get data from
This Computer
Web Addresses (URLs)
Clipboard
Database
Google Data
Locate one or more files on your computer to upload:
Choose Files
No file chosen
Next »

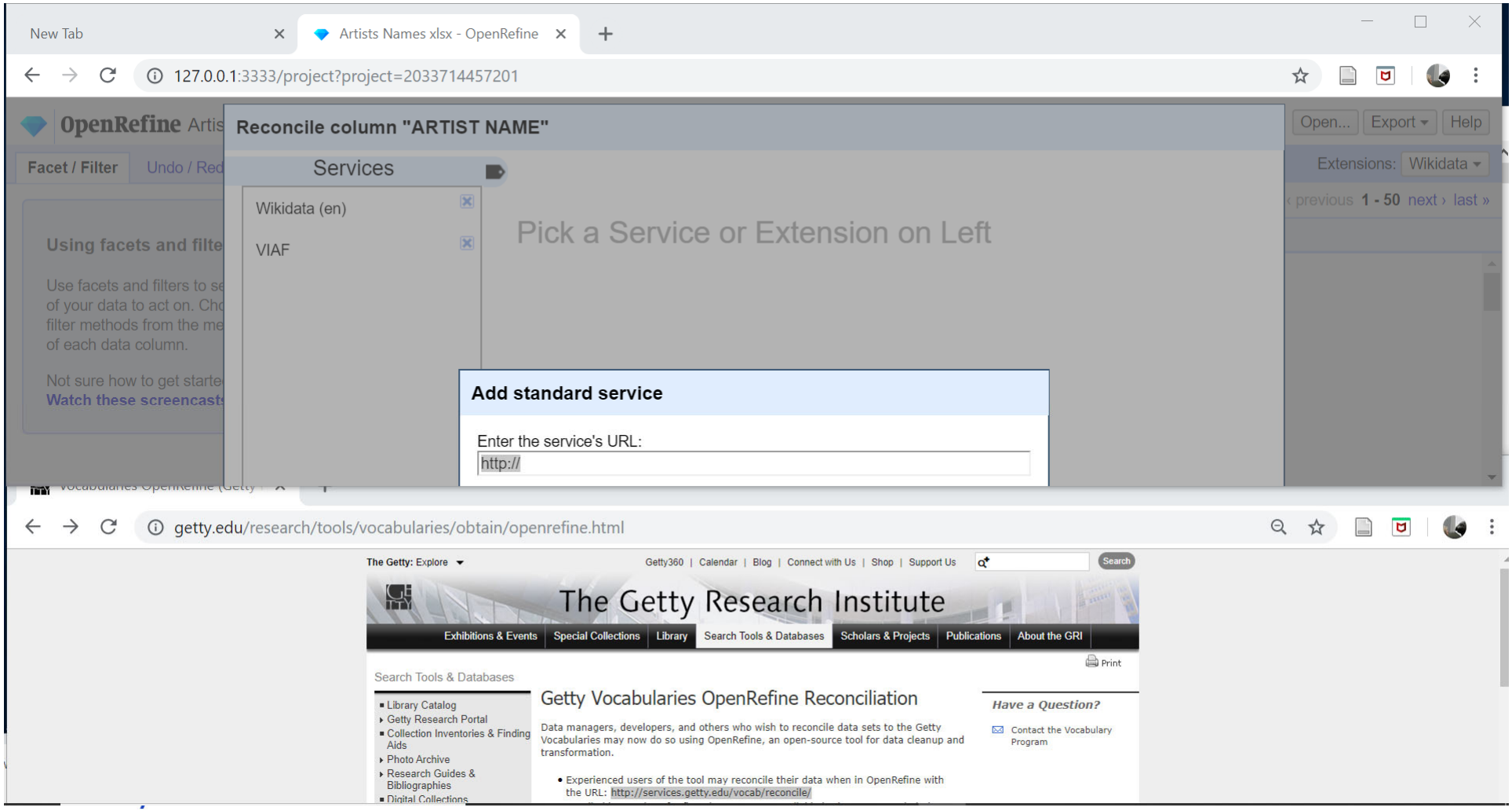


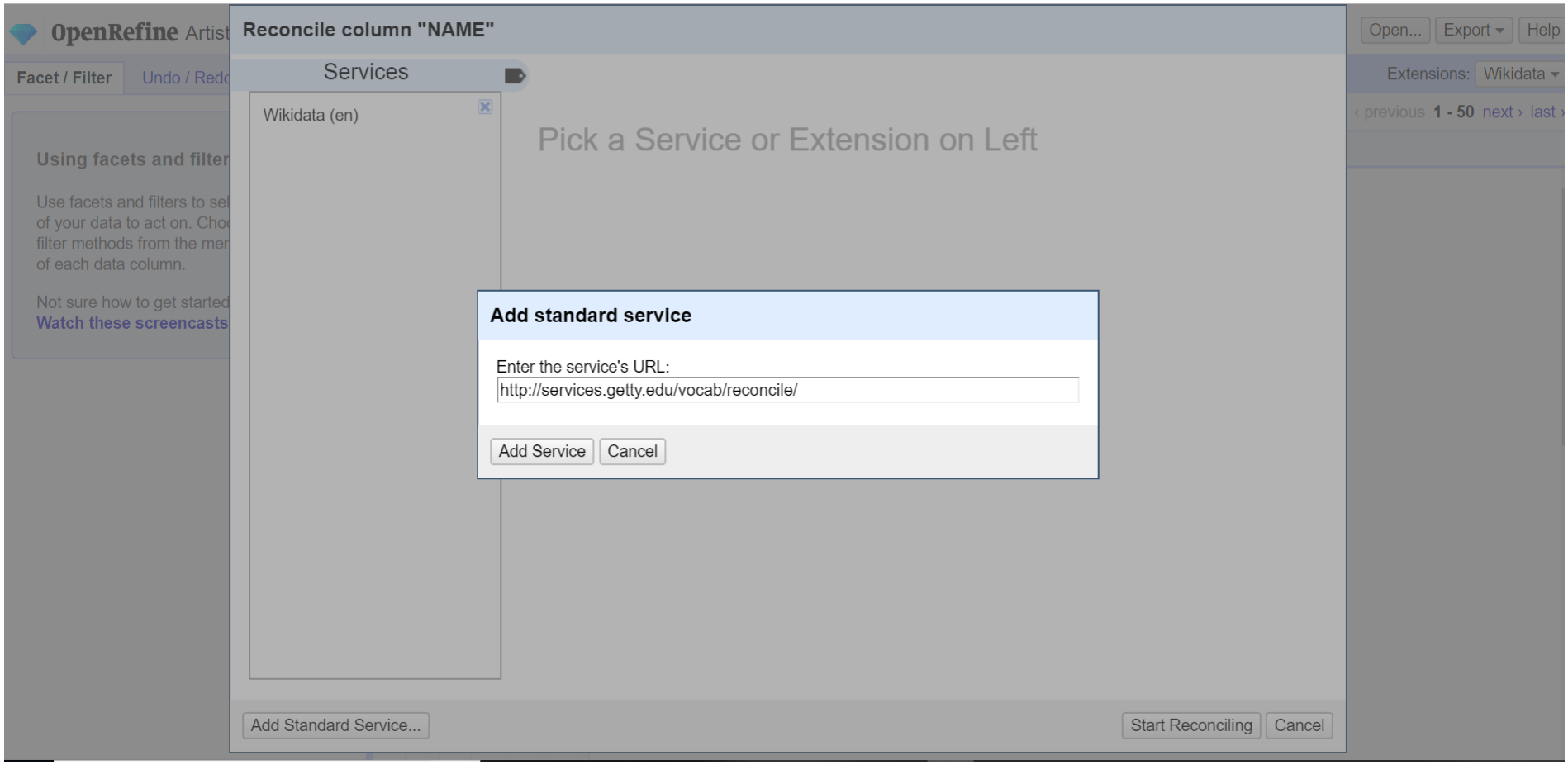
Paste | Clipboard | Calibri | 11 | Font | Wrap Text | Merge & Center | Alignment | General | Number

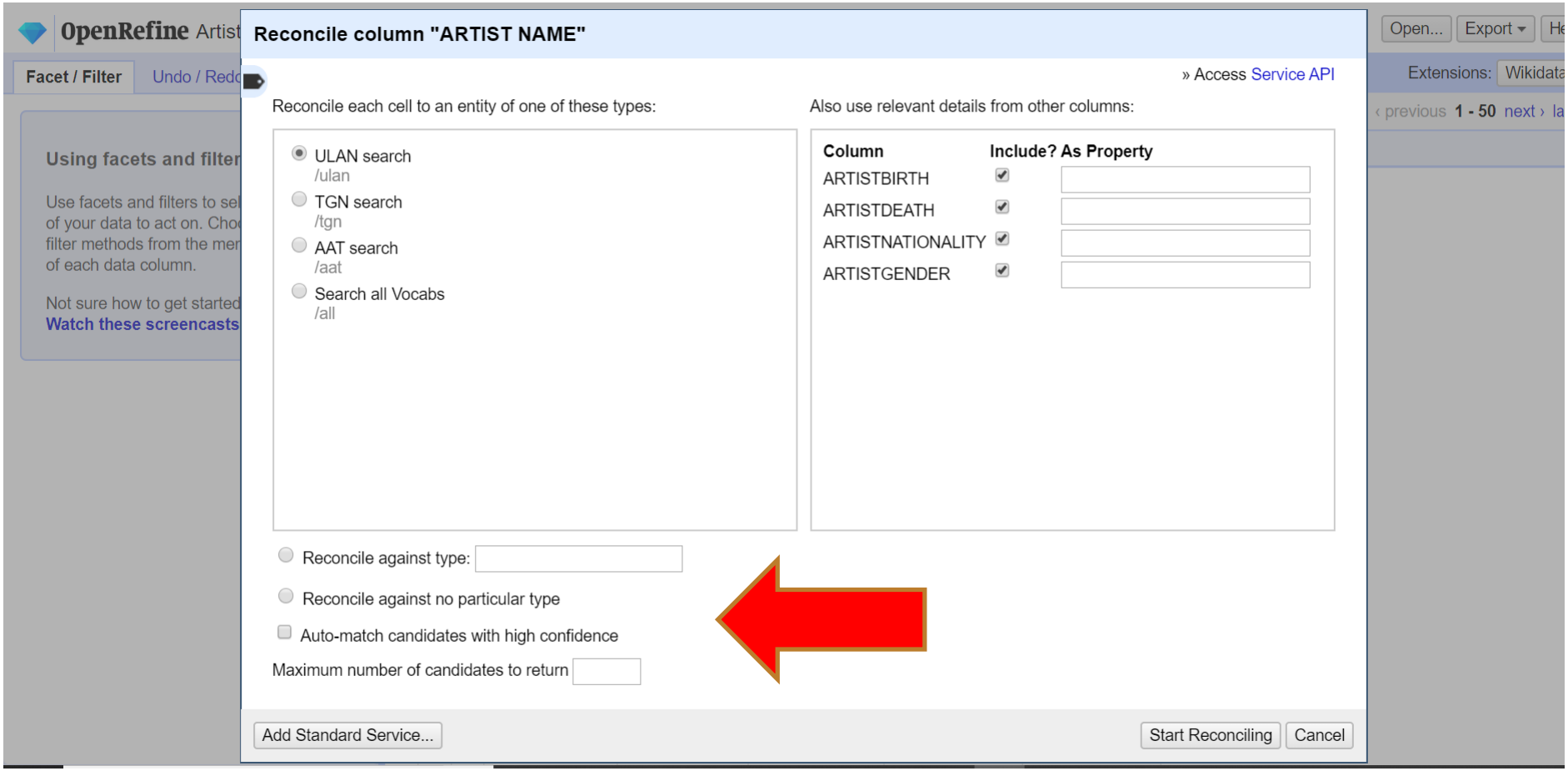
E1 | ARTISTGENDER

	A	B	C	D	E	F	G	H
1	ARTIST NAME	ARTISTBIRTH	ARTISTDEATH	ARTISTNATIONALITY	ARTISTGENDER			
2	Tamburini							
3	F.A. Bridgman							
4	F.A. Bridgman							
5	F.A. Bridgman							
6	F.A. Bridgman							
7	F.A. Bridgman							
8	Kraus							
9	Ch. Jacque							
10	van Wyngaerdt							
11	van Wyngaerdt							
12	J. G. Brown							
13	F. de Mesgriny							
14	D. Johnson							
15	A. Stevens							
16	W. Maris							
17	Campriani							
18	Campriani							
19	Compte Calix							
20	Wopfner							
21	J. D. Briscoe							


OpenRefine Artists Names xlsx
Permalink
Open...
Export
Help
Facet / Filter
Undo / Redo 0 / 0
40254 rows
Extensions: Wikidata
Show as: rows records
Show: 5 10 25 50 rows
« first ‹ previous 1 - 10 next › last »
Using facets and filters
Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.
Not sure how to get started?
Watch these screencasts
All
ARTIST NAME
ARTISTBIRTH
ARTISTDEATH
ARTISTNATIONA
ARTISTGENDER
1. Tamburini
2. F.A. Bridgman
3. F.A. Bridgman
4. F.A. Bridgman
5. F.A. Bridgman
6. F.A. Bridgman
7. Kraus
8. Ch. Jacque
9. van Wyngaerdt
10. van Wyngaerdt


New Tab
Artists Names xlsx - OpenRefine
127.0.0.1:3333/project?project=2033714457201
OpenRefine
Reconcile column "ARTIST NAME"
Open...
Export
Help
Facet / Filter
Undo / Red
Services
Wikidata (en)
VIAF
Pick a Service or Extension on Left
Extensions: Wikidata
previous 1 - 50 next last
Using facets and filte
Use facets and filters to se
of your data to act on. Cho
filter methods from the me
of each data column.
Not sure how to get starte
Watch these screencast
Add standard service
Enter the service's URL:
http://
getty.edu/research/tools/vocabularies/obtain/openrefine.html
The Getty: Explore
Getty360 | Calendar | Blog | Connect with Us | Shop | Support Us
Search
The Getty Research Institute
Exhibitions & Events
Special Collections
Library
Search Tools & Databases
Scholars & Projects
Publications
About the GRI
Print
Search Tools & Databases
Library Catalog
Getty Research Portal
Collection Inventories & Finding Aids
Photo Archive
Research Guides & Bibliographies
Digital Collections
Getty Vocabularies OpenRefine Reconciliation
Data managers, developers, and others who wish to reconcile data sets to the Getty Vocabularies may now do so using OpenRefine, an open-source tool for data cleanup and transformation.
Experienced users of the tool may reconcile their data when in OpenRefine with the URL: http://services.getty.edu/vocab/reconcile/
Have a Question?
Contact the Vocabulary Program


OpenRefine Artist
Facet / Filter
Undo / Redo
Using facets and filter
Use facets and filters to sel
of your data to act on. Choo
filter methods from the mer
of each data column.
Not sure how to get started
Watch these screencasts
Reconcile column "NAME"
Services
Wikidata (en)
Pick a Service or Extension on Left
Open...
Export
Help
Extensions: Wikidata
‹ previous 1 - 50 next › last ›
Add standard service
Enter the service's URL:
http://services.getty.edu/vocab/reconcile/
Add Service
Cancel
Add Standard Service...
Start Reconciling
Cancel


OpenRefine
Facet / Filter
Undo / Redo
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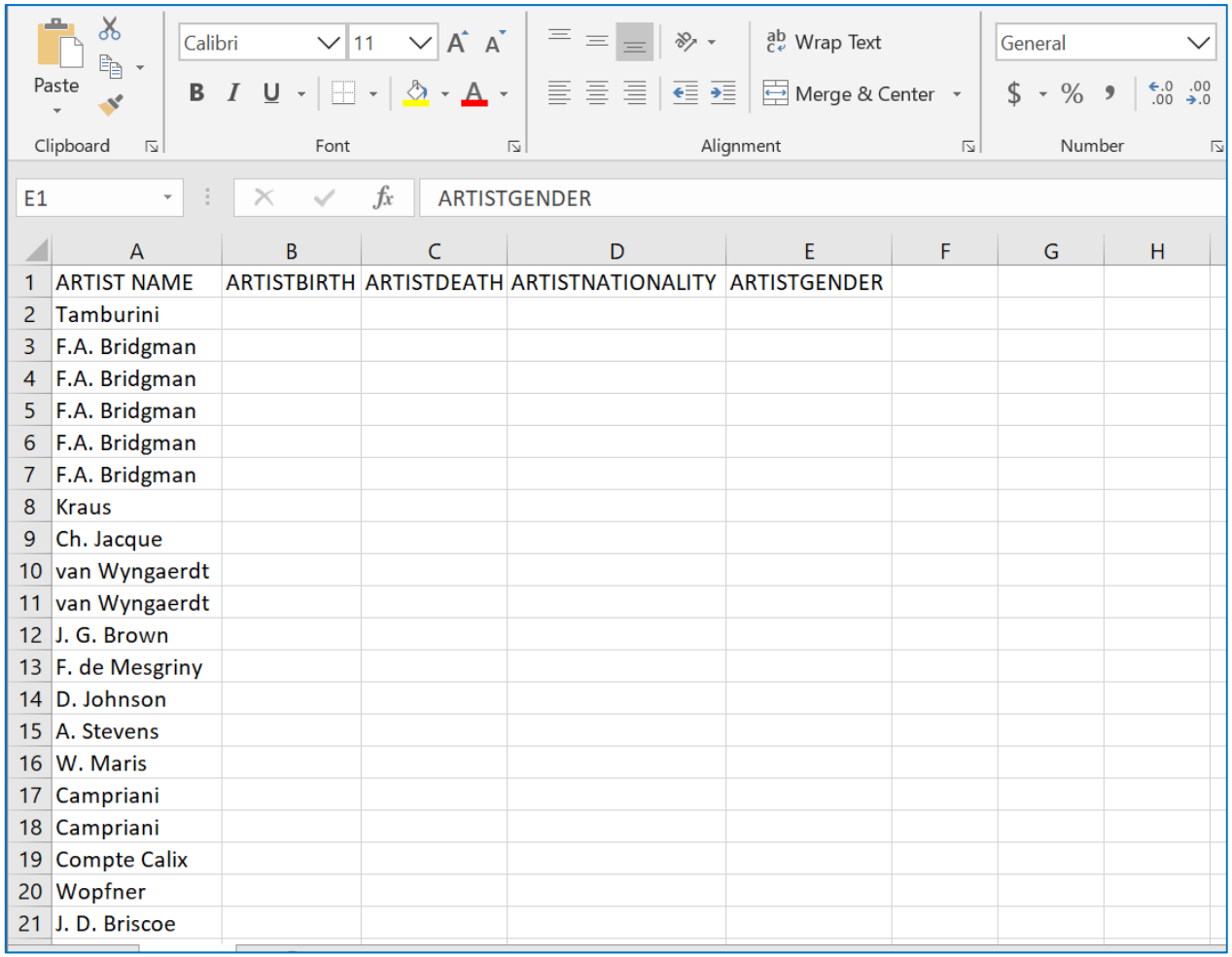
Extensions:
Wikidata
previous 1 - 50 next
Using facets and filter
Use facets and filters to sel
of your data to act on. Choo
filter methods from the men
of each data column.
Not sure how to get started
Watch these screencasts
Reconcile column "ARTIST NAME"
» Access Service API
Reconcile each cell to 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



	A	B	C	D	E	F	G	H
1	ARTIST NAME	ARTISTBIRTH	ARTISTDEATH	ARTISTNATIONALITY	ARTISTGENDER			
2	Tamburini							
3	F.A. Bridgman							
4	F.A. Bridgman							
5	F.A. Bridgman							
6	F.A. Bridgman							
7	F.A. Bridgman							
8	Kraus							
9	Ch. Jacque							
10	van Wyngaerdt							
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12	J. G. Brown							
13	F. de Mesgriny							
14	D. Johnson							
15	A. Stevens							
16	W. Maris							
17	Campriani							
18	Campriani							
19	Compte Calix							
20	Wopfner							
21	J. D. Briscoe							

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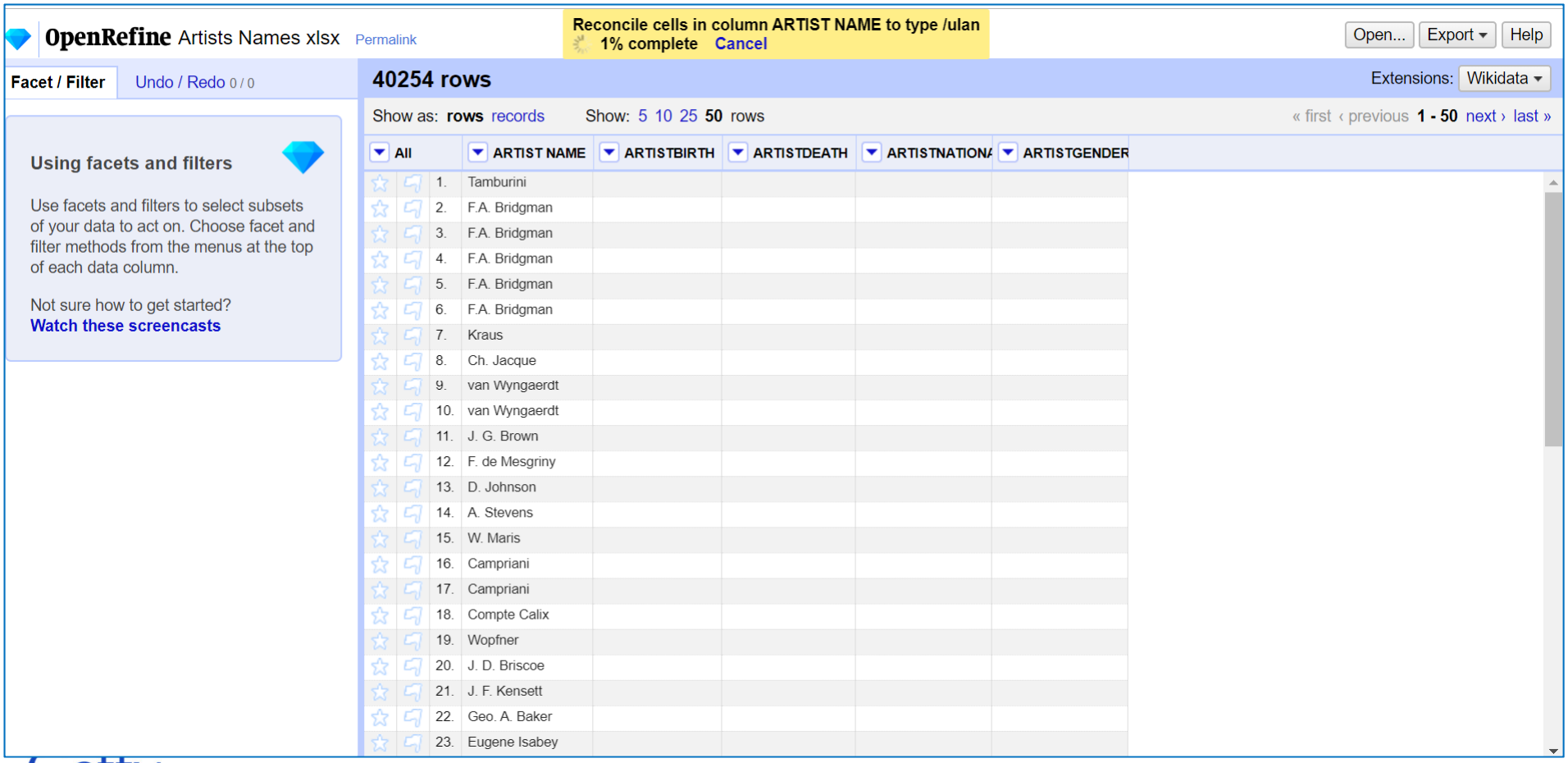
OpenRefine Artists Names xlsx
Permalink
Reconcile cells in column ARTIST NAME to type /ulan
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Open...
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Help
Facet / Filter
Undo / Redo 0 / 0
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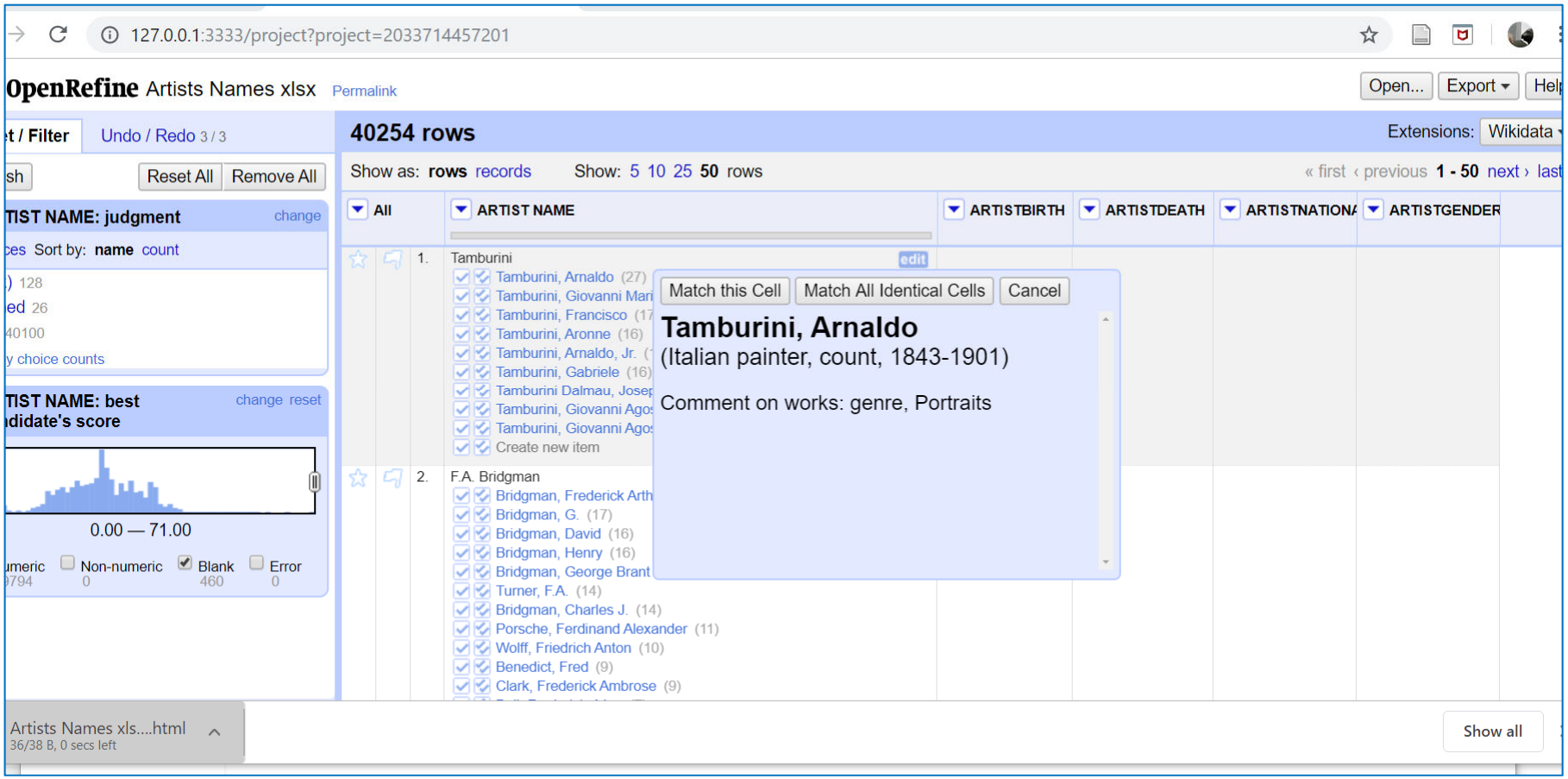
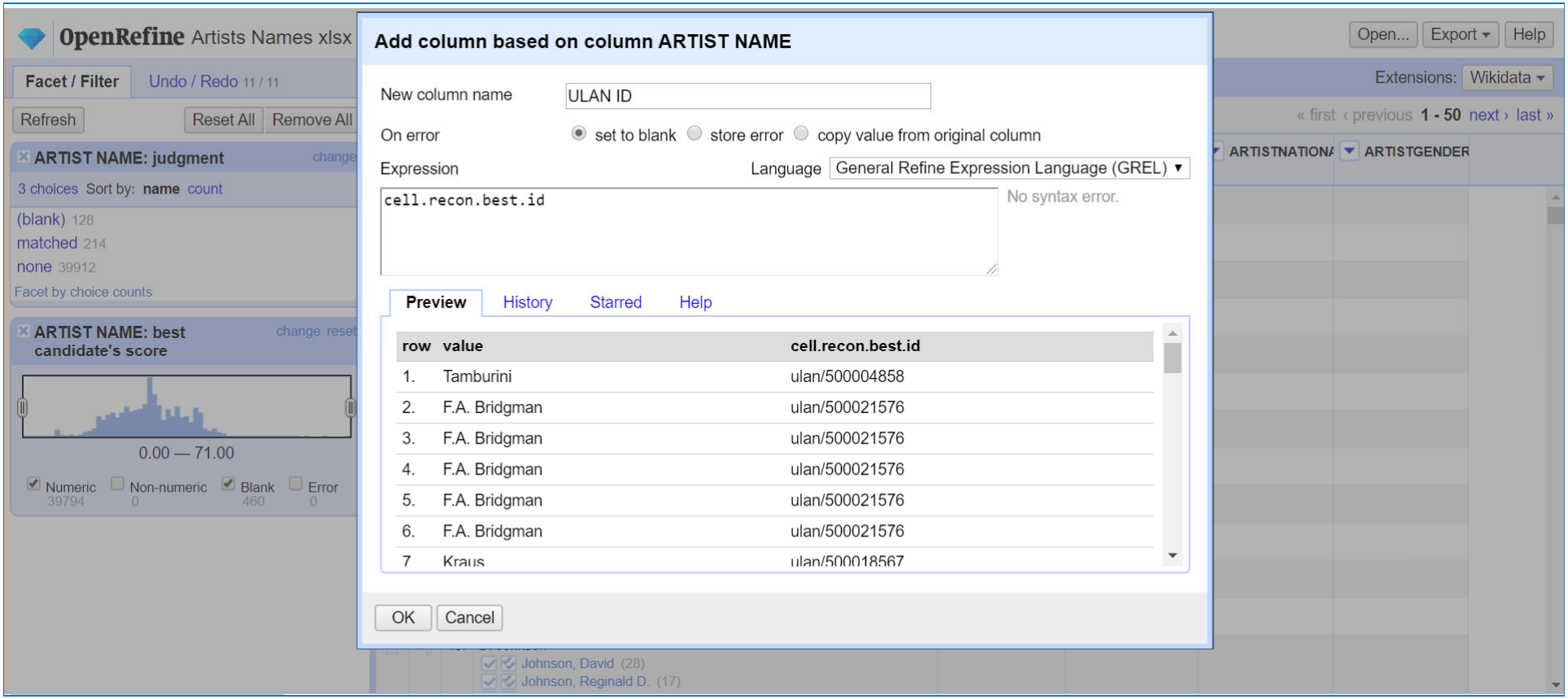
Extensions:
Wikidata
Using facets and filters
Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.
Not sure how to get started?
Watch these screencasts
Show as: rows records
Show: 5 10 25 50 rows
« first ‹ previous 1 - 50 next › last »
All
ARTIST NAME
ARTISTBIRTH
ARTISTDEATH
ARTISTNATIONA
ARTISTGENDER
1. Tamburini
2. F.A. Bridgman
3. F.A. Bridgman
4. F.A. Bridgman
5. F.A. Bridgman
6. F.A. Bridgman
7. Kraus
8. Ch. Jacque
9. van Wyngaerdt
10. van Wyngaerdt
11. J. G. Brown
12. F. de Mesgriny
13. D. Johnson
14. A. Stevens
15. W. Maris
16. Campriani
17. Campriani
18. Compte Calix
19. Wopfner
20. J. D. Briscoe
21. J. F. Kensett
22. Geo. A. Baker
23. Eugene Isabey


127.0.0.1:3333/project?project=2033714457201
OpenRefine Artists Names xlsx
Permalink
Open...
Export
Undo / Redo 3 / 3
40254 rows
Extensions:
Wikidata
Reset All
Remove All
Show as: rows records
Show: 5 10 25 50 rows
« first ‹ previous 1 - 50 next › last
ARTIST NAME: judgment
change
Sort by: name count
ARTIST NAME: best
change reset
0.00 — 71.00
Non-numeric
Blank
Error
All
ARTIST NAME
ARTISTBIRTH
ARTISTDEATH
ARTISTNATIONA
ARTISTGENDER
1.
Tamburini
edit
Tamburini, Arnaldo (27)
Tamburini, Giovanni Mari
Tamburini, Francisco
Tamburini, Aronne (16)
Tamburini, Arnaldo, Jr.
Tamburini, Gabriele (16)
Tamburini Dalmau, Josep
Tamburini, Giovanni Agos
Tamburini, Giovanni Agos
Create new item
Match this Cell
Match All Identical Cells
Cancel
Tamburini, Arnaldo
(Italian painter, count, 1843-1901)
Comment on works: genre, Portraits
2.
F.A. Bridgman
Bridgman, Frederick Arth
Bridgman, G. (17)
Bridgman, David (16)
Bridgman, Henry (16)
Bridgman, George Brant
Turner, F.A. (14)
Bridgman, Charles J. (14)
Porsche, Ferdinand Alexander (11)
Wolff, Friedrich Anton (10)
Benedict, Fred (9)
Clark, Frederick Ambrose (9)
Artists Names xls....html
36/38 B, 0 secs left
Show all


OpenRefine Artists Names xlsx
Facet / Filter
Undo / Redo 11 / 11
Refresh
Reset All
Remove All
ARTIST NAME: judgment
change
3 choices Sort by: name count
(blank) 128
matched 214
none 39912
Facet by choice counts
ARTIST NAME: best candidate's score
change reset
0.00 — 71.00
Numeric 39794
Non-numeric 0
Blank 460
Error 0
Add column based on column ARTIST NAME
New column name
ULAN ID
On error
set to blank
store error
copy value from original column
Expression
Language
General Refine Expression Language (GREL)
cell.recon.best.id
No syntax error.
Preview
History
Starred
Help
row
value
cell.recon.best.id
1. Tamburini ulan/500004858
2. F.A. Bridgman ulan/500021576
3. F.A. Bridgman ulan/500021576
4. F.A. Bridgman ulan/500021576
5. F.A. Bridgman ulan/500021576
6. F.A. Bridgman ulan/500021576
7 Kraus ulan/500018567
OK
Cancel
Open...
Export
Help
Extensions: Wikidata
« first ‹ previous 1 - 50 next › last »
ARTISTNATIONA
ARTISTGENDER
Johnson, David (28)
Johnson, Reginald D. (17)

Much more you can do!

- To reconcile/clean/edit your data
- Filter
- Facets
- Clusters
- GREL Expressions (General Refine Expression Language)

Getty

For further resources for OpenRefine

- https://openrefine.org/ & its wiki
- https://librarycarpentry.org/lc-open-refine/
- & https://data-lessons.github.io/dh-openrefine/ (OpenRefine Lessons for Digital Humanities)
- Programming Historian: https://programminghistorian.org/en/lessons/cleaning-data-with-openrefine
- Owen Stephens for the British Library (with apologies for the URL) http://www.meanboyfriend.com/overdue_ideas/wp-content/uploads/2014/11/Introduction-to-OpenRefine-handout-CC-BY.pdf

For Further Reading (Sampling)

- Baca, Murtha, ed. *Introduction to Metadata* 3rd edition, online, 2018.
- Dublin Core Metadata Initiative
- Christopher Morse, Rashmi Singhal, & Jud Harward "Research Databases and the Future of Digital Humanities Applications,"
- Stephen Ramsey, "Databases," *A Companion to Digital Humanities*, 2004.
- David M. Kroenke, et al. *Database Concepts,* Pearson (currently in its 9th edition)
- Katie Rawson and Trevor Munoz, "Against Cleaning," http://curatingmenus.org/articles/against-cleaning/ from the Curatin Menus project (

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Questions?

Thank you.

Anne Helmreich
Associate Director, Digital Initiatives
Getty Research Institute

Patricia Harpring
Managing Editor, Getty Vocabulary Program
Getty Research Institute

Getty