

Preparing the Getty Provenance Index for the LOD World

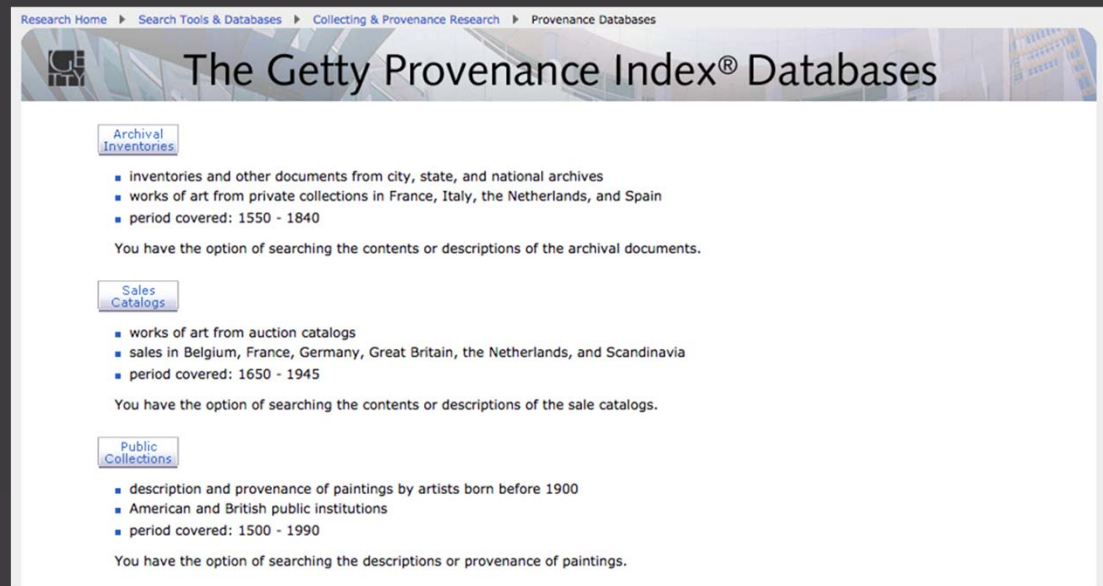
Ruth Cuadra, Data Analyst
Melissa Gill, Project Manager

Tuesday, August 15, 2017



About the Getty Provenance Index

- 8 databases
- 2 million records
- Primarily Western European art
- Variety of primary sources



Research Home ▶ Search Tools & Databases ▶ Collecting & Provenance Research ▶ Provenance Databases

The Getty Provenance Index® Databases

Archival Inventories

- inventories and other documents from city, state, and national archives
- works of art from private collections in France, Italy, the Netherlands, and Spain
- period covered: 1550 - 1840

You have the option of searching the contents or descriptions of the archival documents.

Sales Catalogs

- works of art from auction catalogs
- sales in Belgium, France, Germany, Great Britain, the Netherlands, and Scandinavia
- period covered: 1650 - 1945

You have the option of searching the contents or descriptions of the sale catalogs.

Public Collections

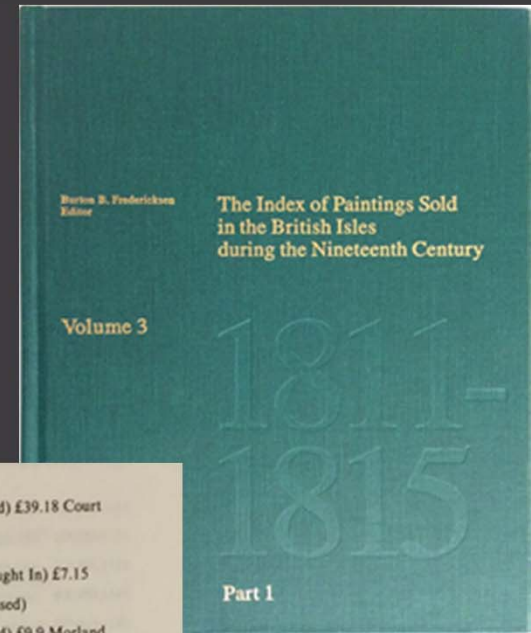
- description and provenance of paintings by artists born before 1900
- American and British public institutions
- period covered: 1500 - 1990

You have the option of searching the descriptions or provenance of paintings.



In the beginning...

- Published as book series
- Databases designed to support print publications



Balen, Hendrik van (I) (and Brueghel, J. (I))					
1811/03/16	LOCH2	0039	<i>Brueghel; Van Balen</i> The Holy Family in a landscape with angels, a pleasing composition, finely colored and exquisitely finished – on copper <i>Mat: on copper</i>	William Baillic	(Sold) £39.18 Court
1811/04/19	LOCH	0099	<i>Brueghel; V. Balen</i> Bacchus and Ariadne	Smart & Co	(Bought In) £7.15
1811/06/28	LOCH	0046	<i>Brueghel; Van Balen</i> A Landscape with Allegorical figures	Whale	(Passed)
1811/07/13	LOCH	0064	<i>Brueghel; Van Balen</i> A Landscape with Allegorical Figures	Whale	(Sold) £9.9 Morland
1812/06/06	LOCH	0079	<i>Brueghel; V. Balen</i> The Children of Israel in the Desert, Moses striking the Rock	Winstanley	(Bought In) £45.3
1812/06/27	LOCH	0067	<i>Brueghel; Van Balen</i> Moses with the Brazen Serpent	Gompertz	(Bought In) £21.0
1814/04/02	LOCH	0051	<i>V. Balen; Brueghel</i> A group of infant angels dancing in a landscape	William Parr	(Sold) £16.5 Savage
1814/05/28	LOCH	0079	<i>Brueghel; Van Balen</i> A Landscape with the Virgin and Child, attended by Infant Angels gathering Flowers – a beautiful and high finished specimen	May	(Sold) £22.11 Eckford
1815/02/18	LOCH	0097	<i>Brueghel; Van Balen</i> One of the Four Elements	H Bradley	(Sold) £31.10 Savage
1815/03/22	LOPH	0096	<i>Brueghel; Van Balen</i> A Circle of Flowers, in which Van Balen has introduced the Holy Family – forming a pleasing combination of the talents of these admirable artists	Marquess of Headfort [or] Sir George Bowyer Bart [or others]	(Bought In) £14.3



Remodeling Project: Goals

- Improve accessibility



Remodeling Project: Goals

- Improve accessibility
- Improve usability



Remodeling Project: Goals

- Improve accessibility
- Improve usability
- Strengthen relationships with other Getty Research Institute materials



Remodeling Project: Goals

- Improve accessibility
- Improve usability
- Strengthen relationships with other Getty Research Institute materials
- Explore research questions



Conversion to Linked Data

From flat records to semantic triples: *Subject - Predicate - Object*

H { d p s d } =

Painting	Artist	Date
Irises	van Gogh, Vincent	1889
Guernica	Picasso, Pablo	1937

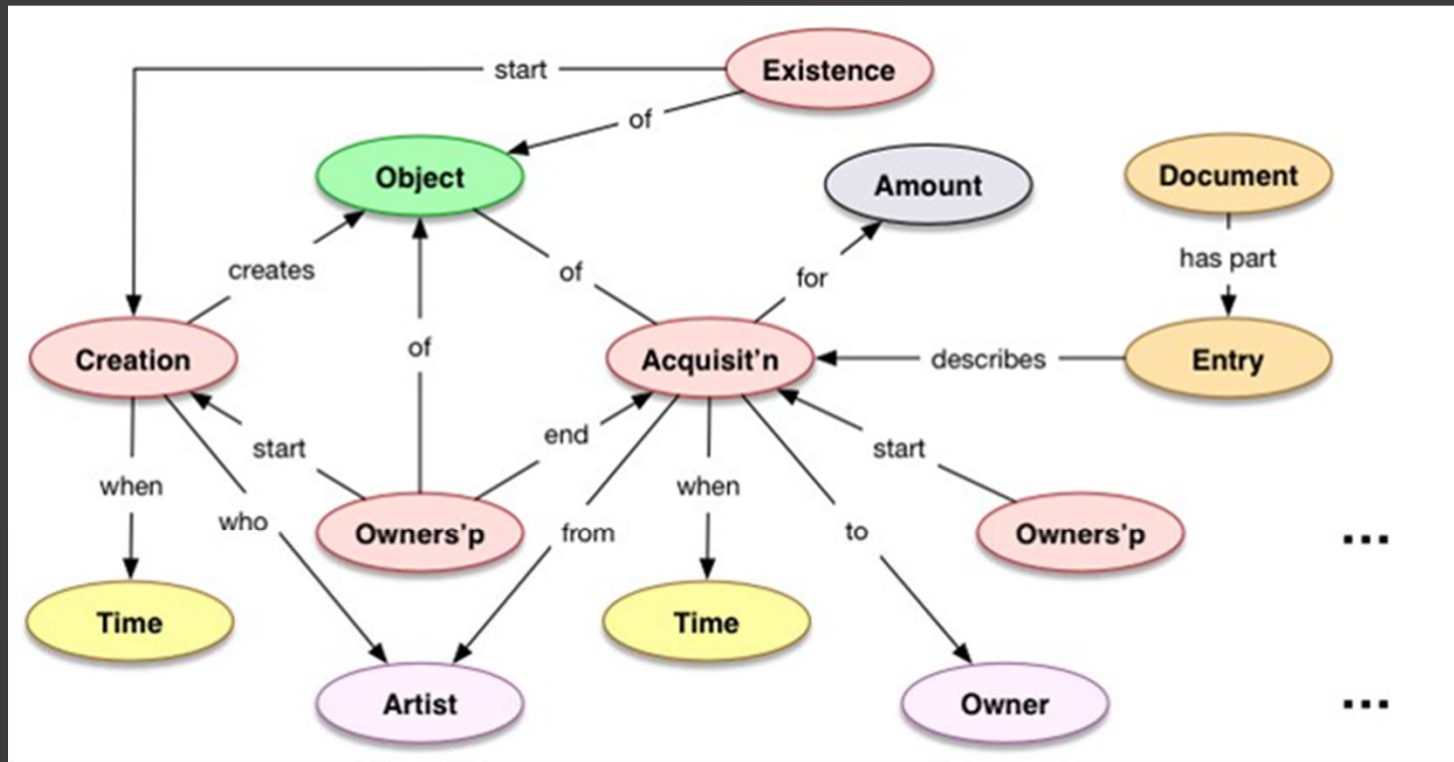
“Irises” = “created by” - “van Gogh”
“Irises” = “created in” - “1889”

“Things, not Strings!”

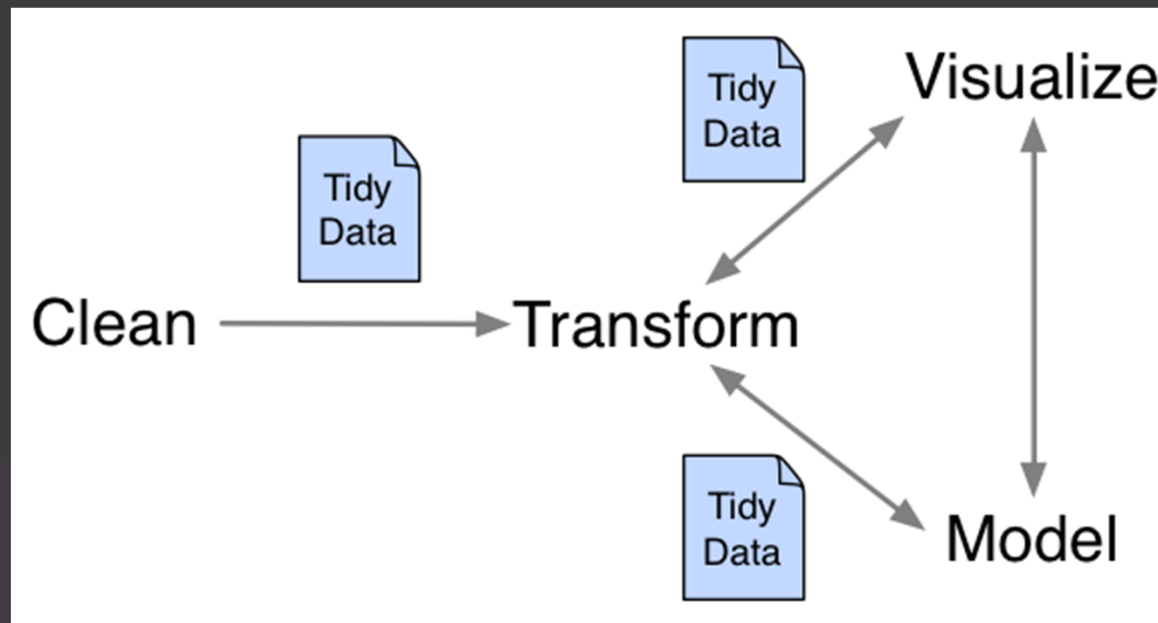
[kws-2yrcfde1jhwj1hgx2frqd2:33335545](#) 0 [kws-2axo4n1j2gf2hnp_v2fuhdru](#) 0 [kws-2yrcfde1jhwj1hgx2xslq28334488](#) . .
[kws-2yrcfde1jhwj1hgx2frqd2:33335545](#) 0 [kws-2axo4n1j2gf2hnp_v2fuhdru](#) 0 4 ; ; <



Provenance Index Data Model



Cleaning and Restructuring Data



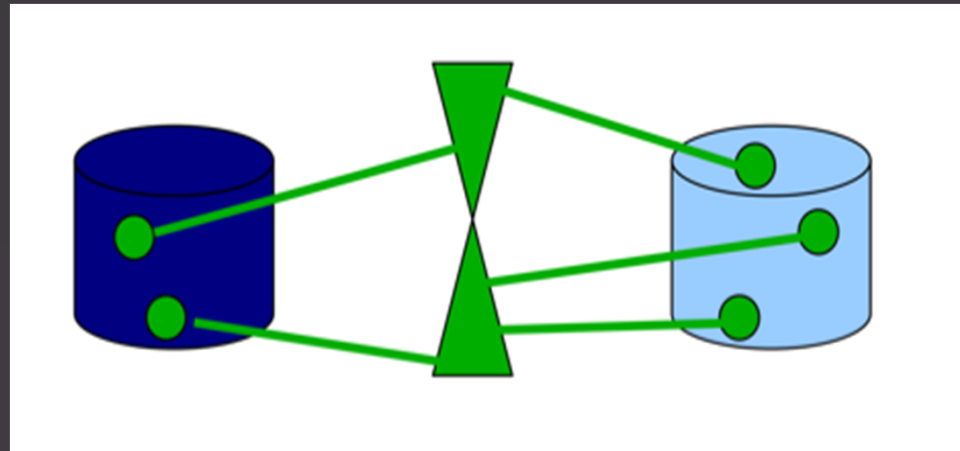
Reconciling with the Getty Vocabularies

PI Record No.	K-32610	
Stock Book	Knoedler Book 9, Stock No. A4779, Page 236, Row 45	
Artist Name(s)	BIERSTADT, ALBERT (American) <i>from stock book: Bierstadt, Albert</i>	ULAN: artist names
Title	Marine	
Description	SLL "A Bierstadt"	
Subject	Landscape; Marines	AAT: object types, subject, genre
Object Type	Painting	
Material / Dimensions	11 x 7 1/4	
Transaction	Unsold	
Entry Date	1952/02/05	
Purchase Price	10 dollars	AAT: currencies
Provenance	Beekman, Daniel (New York, NY, USA) <i>from stock book: Daniel Beekman</i>	ULAN: buyer and seller names TGN: locations



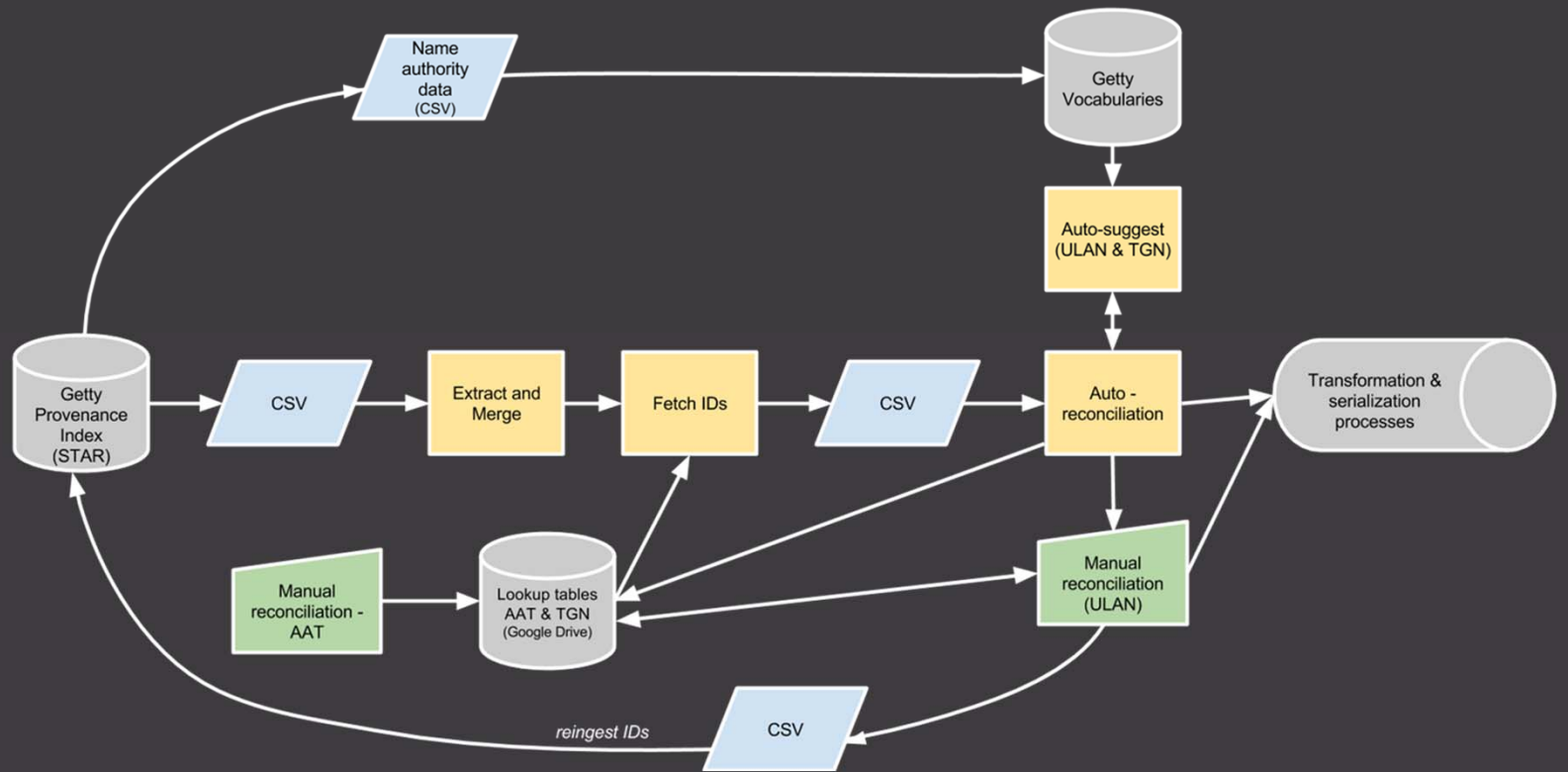
Linking entities

Vocabularies play an important role in the Semantic Web
by linking resources from different domains



Credit: Emmanuelle Bermes (2011)

Data Workflow



Automatic Reconciliation

Lot 0154 from Sale Catalog D-2955	
Artist Name	SARGENT, JOHN SINGER (American) <i>from catalog: John Singer Sargent [Florenz 1856-1925 London Chelsea]</i>
Title / Description	Nymphen Bergbach bei Vollmond, Öl auf Leinwand, bezeichnet J. Sargent; 130 X 87
Subject	Genre
Object Type	Gemälde
Material / Dimensions	Öl auf Leinwand, 130 cm x 87 cm
Transaction	Schätzpreis: 4500Ausrufpreis: 1500
Sale Date	1943 Oct 19 - 1943 Oct 22 (This Lot: Oct 19)
Auction House	Dorotheum
Sale Location	Vienna, Austria
See Also	Sale Description Catalog PDF

Search the ULAN [Help](#)

Find Name or ID: [Search](#)

Role: [Clear](#)

Nationality: [Clear](#)

[Pop-up Search](#) [Browse the ULAN hierarchies](#)

Research

[Research Home](#) » [Tools](#) » [Union List of Artist Names](#) » [Full Record Display](#)

Union List of Artist Names® Online Full Record Display

[New Search](#) [Previous Page](#) [Help](#)

Click the  icon to view the hierarchy.

[Semantic View \(JSON, JSONLD, RDF, N3/Turtle, N-Triples\)](#)

ID: 500023972 **Record Type: Person**

Sargent, John Singer (American painter, 1856-1925)

Note: Born in Italy to expatriate American parents, Sargent became a highly regarded and prolific portraitist of the late 19th century, working in France, England and the U.S. Under the influence of Carolus-Duran, Sargent undertook a study of the works of Velázquez in Spain, 1879, and Frans Hals in the Netherlands. He was also influenced by the Impressionists, particularly Monet, whom he knew, and often worked in a more experimental manner at odds with his formal portraiture. His most famous portrait, "Madame X," caused a scandal at the Salon of 1884, causing him to move from Paris and permanently settle in London, where he painted society portraits to great acclaim. After 1910 he devoted himself to painting landscapes and murals, including commissions for the Boston Public Library and Museum of Fine Arts.

Names:


- Sargent, John Singer (preferred,V,index,LC)
- John Singer Sargent (V,display)
- Sargeant, John Singer (V)
- Sargent, John-Singer (V)
- Sargent, John S. (V)
- Sargent, John (V)



Manual Reconciliation

ID: 300033618

Record Type: concept

 **paintings (visual works)** (<visual works by material or technique>, visual works (works), ... Visual and Verbal Communication (hierarchy name))

Note: Unique works in which images are formed primarily by the direct application of pigments suspended in oil, water, egg yolk, molten wax, or other liquid, arranged in masses of color, onto a generally two-dimensional surface.

1	object_type	materials	n	made_of (primary)	made_of (support)	classified_as (object type)	classified_as (object type)	technique
2	Painting		548703			300033618		300054216
3	Peinture		56522			300033618		300054216
4	Peinture	sur toile	49578		300014078	300033618		300054216
5	Gemälde	Öl auf Leinwand	46086	300015050	300014078	300033618		300054216;30017
6	Gemälde	auf Leinwand	42431		300014078	300033618		300054216
7	Drawing		37762			300033973		300054196
8	Gemälde		33398			300033618		300054216
9	Peinture	sur bois	28749		300014657	300033618		300054216
10	Dessin		28008			300033973		300054196
11	Painting	on panel	27986		300014657	300033618		300054216
12	Painting	on canvas	26169		300014078	300033618		300054216
13	Gemälde	auf Holz	25148		300014657	300033618		300054216
14	Gemälde	Öl auf Holz	21839	300015050	300014657	300033618		300054216;30017
15	Zeichnung	Aquarell	20954	300015045		300033973	300078925	300053363;30005
16	Skulptur	Holz	13309	300011914		300047090		300264383;30018
17	Skulptur	Bronze	9838	300010957		300047090	300047333	300264383



Manual Reconciliation

1	object_type	materials	n	made_of (primary)	made_of (support)	classified_as (object type)	classified_as (object type)	technique
2	Painting		548703			300033618		300054216
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					300014657	300033618		300054216
13	Gemälde	auf Holz	25148					
17	Skulptur	Bronze	9838	300010957		300047090	300047333	300264383

ID: 300015050 Record Type: concept
 oil paint (paint) (<paint by composition or origin>, paint (coating), ... Materials (hierarchy name))

ID: 300014078 Record Type: concept
 canvas (textile material) (<textile materials by process or technique>, textile materials, ... Materials (hierarchy name))

ID: 300178684 Record Type: concept
 oil painting (technique) (<painting techniques by medium>, painting techniques, ... Processes and Techniques (hierarchy name))

ID: 300054216 Record Type: concept
 painting (image-making) (<painting and painting techniques>, <image-making processes and techniques>, ... Processes and Techniques (hierarchy name))



Multilingual Enrichment

PI Record No. G-30180
Stock Book Goupil Book 12, Stock No. 20812, Page 164, Row 1
Artist Name(s) MANET, EDOUARD (French)
from stock book: Manet

Title Marine
Subject Marines; **Paysage**
Object Type **Peinture**
Material / Dimensions 20 X 37
Transaction Vendu
Entry Date 1890/06/26
Purchase Location Boulevard Hôtel des ventes
Sale Date 1890/09/27
Sale Location Boulevard

Dealer's Cost IC [84] francs
(see [Stock Book](#) for additional price information)
Sale Price RNX [200] francs
Buyer Dowdeswell, Charles William, Londres, Grande-Bretagne.
from stock book: Dowdeswell

ID: 300015636 **Record Type:** concept

landscapes (representations) (<visual works by subject type>, visual works (works), ... Visual and Verbal Communication (hierarchy name))

Note: Creative works, usually two-dimensional, depicting an outdoor scene dominated by the land, hills, fields, sky, trees, fields, rivers or other bodies of water, and other natural elements. Landscapes may include a near point of view in the foreground, but also usually depict a view into the distance. Landscapes may contain architecture or figures, but the primary focus remains the land. When an ocean, sea, or other large body of water dominates the picture, use "seascapes." For actual areas of land rather than depictions, use "landscapes (environments)."

Terms:
landscapes (representations) (preferred,C,U,English-P,D,U,PN)
landscape (representation) (C,U,English,AD,U,SN)
風景畫 (畫像) (C,U,Chinese (traditional)-P,D,U,U)
風景繪畫 (C,U,Chinese (traditional),UF,U,U)
風景作品 (C,U,Chinese (traditional),UF,U,U)
fēng jǐng huà (C,U,Chinese (transliterated Hanyu Pinyin)-P,UF,U,U)
feng jing hua (C,U,Chinese (transliterated Pinyin without tones)-P,UF,U,U)
feng ching hua (C,U,Chinese (transliterated Wade-Giles)-P,UF,U,U)
landschappen (voorstellingen) (C,U,Dutch-P,D,U,U)
landschap (voorstelling) (C,U,Dutch,AD,U,U)
paysages (representations) (C,U,French-P,D,U,PN)
paysage (representation) (C,U,French,AD,U,SN)
Landschaftsbild (Darstellung) (C,U,German,D,SN)
Landschaft (Darstellung) (C,U,German-P,AD,SN)
Landschaften (Darstellungen) (C,U,German,UF,PN)
Landschaftsbilder (Darstellungen) (C,U,German,UF,PN)
Landschaftsmalerei (Darstellung) (C,U,German,UF,SN)
Landschaftsmalereien (Darstellungen) (C,U,German,UF,PN)
paesaggio (C,U,Italian,AD,U,SN)
paisajes (representación) (C,U,Spanish-P,D,U,PN)
paisaje (representación) (C,U,Spanish,AD,U,SN)
paisajismo (representación) (C,U,Spanish,UF,U,SN)

ID: 300033618 **Record Type:** concept

paintings (visual works) (<visual works by material or technique>, visual works (works), ... Visual and Verbal Communication (hierarchy name))

Note: Unique works in which images are formed primarily by the direct application of pigments suspended in oil, water, egg yolk, molten wax, or other liquid, arranged in masses of color, onto a generally two-dimensional surface.

Terms:
paintings (visual works) (preferred,C,U,English-P,D,U,PN)
painting (visual work) (C,U,English,AD,U,SN)
schilderijen (C,U,Dutch-P,D,U,U)
schildering (C,U,Dutch,AD,U,U)
peintures (visual works) (C,U,French-P,D,U,PN)
peinture (visual work) (C,U,French,AD,U,SN)
Malereien (visuelle Werke) (C,U,German,D,SN)
Gemälde (C,U,German-P,AD,B)
Malerei (visuelles Werk) (C,U,German,UF,SN)
pinturas (obra visual) (C,U,Spanish-P,D,U,PN)
pintura (obra visual) (C,U,Spanish,AD,U,SN)



What's next?



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Questions?

Thank you!

Ruth Cuadra

rcuadra@getty.edu

Twitter: @rcuadra

Melissa Gill

mgill@getty.edu

Twitter: @secretinternets

