Getty Vocabularies New Concepts, Equivalents, and Cultural Context in the Art & Architecture Thesaurus (+ Contribution Workflow in AAT)

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Art & Architecture Thesaurus

Over 500,000 terms in 180 languages Over a million annual page views

• Multi-lingual and Multi-cultural.

• Accommodates divergent data from contributors to AAT (with caveats).

Introduction

- This presentation focuses on AAT translations, equivalents, and new concept records.
- We intend to break down a monocultural perspective and accommodate terminology derived from vastly differing cultural contexts, where the semantic functions of objects, roles, physical attributes, activities and materials, etc. may diverge significantly.
- The issues involve not only language differences but differing cultural contexts.
- Users may designate their own Preferred Descriptor apart from AAT Preferred.
- Note that Preference flags indicate a default for a term, source, or contributor, not an absolute judgement on usage.

Notes on "Preference"

4.4.2.4.4.2.2. Language-preferred term

The AAT prescribes that there should be a term preferred for each language represented in the record. The values for the language-preferred flag are preferred, non-preferred, and undetermined. The preferred term for a language is the term used most often in authoritative, scholarly literature in the given language. And depends upon the rules of the language. In the example below, the language-preferred terms for English are plural nouns, while for German they are singular nouns.

- 1. diptychs (Record-Preferred) (English-Pref,Descriptor,Plural Noun)
- 2. diptych (English,Alternate Descriptor,U,Singular Noun)
- 3. Diptychen (German, Descriptor, Plural Noun)
- 4. Diptychon (German-Pref,Alternate Descriptor,Singular Noun)
- 5. Diptycha (German,Used For,Plural Noun)
- 6. 雙聯畫 (C,U,Chinese (traditional)-Pref,Descriptor,Noun)
- 7. 雙聯畫屏 (C,U,Chinese (traditional),Used For,Noun)

4.4.2.4.4.2.3. Contributor-preferred term

Contributors may flag the term that is preferred by their institution.

- 1. diptychs (Record-Preferred) (English-Pref,Descriptor,Plural Noun) Contributor: Avery-preferred Contributor: GCI-preferred Contributor: VP-preferred
- 2. diptych (English,Alternate Descriptor,U,Singular Noun) Contributor: VP-non-preferred
- 3. Diptychen (German,Descriptor,Plural Noun) Contributor: IfM-SMB-PK-non-preferred
- 4. Diptychon (German-Pref,Alternate Descriptor,Singular Noun) Contributor: IfM-SMB-PK -preferred

4.4.2.4.4.2.4. Source-preferred term

The term preferred by a given published source should be flagged.

1. diptychs (Record-Preferred) (English-Pref,Descriptor,Plural Noun) Contributor: Avery-preferred Contributor: GCI-preferred Contributor: VP-preferred Source: Grove Art Online (2008-)-alternate preferred Source: Oxford Companion to Art (1984)- alternate preferred

Term Equivalents

Translation equivalents between languages in a single record in the AAT should be exact synonyms. Equivalence relationships are the relationships between synonymous terms for the same concept. Many concepts lend themselves to direct translation for a generic concept. Paintings (visual works) = peintures (oeuvres visuelles) = pinturas (obras visuales).

- The method of translation and mapping described here is a direct mapping, which refers to the matching of concepts one-to-one in the source and target languages. This technique assumes that there will be the same meaning and level of specificity between the two terms representing the concept in each language. (AATEditorial Guidelines 4.4.2.4.1)
- Equivalent terms in the AAT are "terms representing a concept." When translating or mapping, it is the concept that is translated or mapped. (AAT Editorial Guidelines 4.4.2.2)
- Correction of non-synonymous used-for terms: When a record in the legacy AAT contains terms or a scope note that describe nonsynonymous terms, the manual division of the record into multiple concepts occurs. The original hierarchical position is maintained for the descriptor; any non-synonymous used-for term is deleted. A new record is made for the former used-for term, which is now usually a descriptor. Translations for the new descriptors should be supplied by the translating projects. (AAT Editorial Guidelines 4.4.2.3.3.10.3)



(C,U,Arabic -P,D,U,U) نوحات schilderingen (C,U,Dutch-P,D,U,U) schildering (C,U,Dutch,AD,U,U) schilderstukken (C,U,Dutch,AD,U,U) schilderstuk (C,U,Dutch,AD,U,U) schilderijen (C,U,Dutch,UF,U,U) schilderij (C,U,Dutch,UF,U,U) peintures (oeuvres visuelles) (C,U,French,D,U,PN) ouvrage peint (C,U,French-P,AD,U,MSN) peinture (oeuvre visuelle) (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,AD,SN) ציור (C,U,Hebrew,D,N) maleri (C,U,Norwegian (Bokmål)-P,AD,U,SN) (Norwegian (Nynorsk)-P,AD,U,SN) pinturas (obras visuales) (C,U,Spanish-P,D,U,PN) (obras visuais) (Portuguese-P,D,U,PN) pintura (obra visual) (C,U,Spanish,AD,U,SN) (obra visual) (Portuguese, AD, U, U)

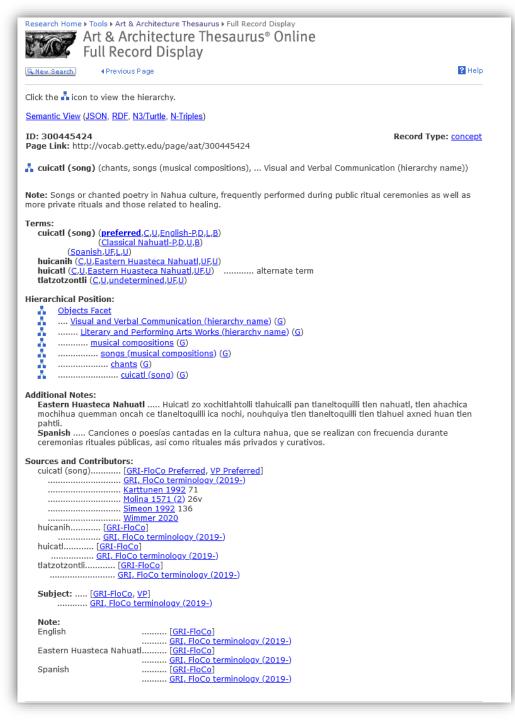
Facet/Hierarchy Code: V.VC

New concept records based on cultural specificity

- Based on context: concepts that may have literal translations that appear equivalent, but that exist within a cultural context that is not applicable to all other cultures.
- No new hierarchical structure in the AAT is (generally) needed for culturally specific concepts.
- Terms that may appear as a literal translation or otherwise equivalent are often designated as the immediate parent of the new concept and removed from the record (with caveats), to minimize the proliferation of homographs.
- New records in AAT do not always conform exactly to the data as it appears in the databases of contributing institutions, particularly hierarchical structure.

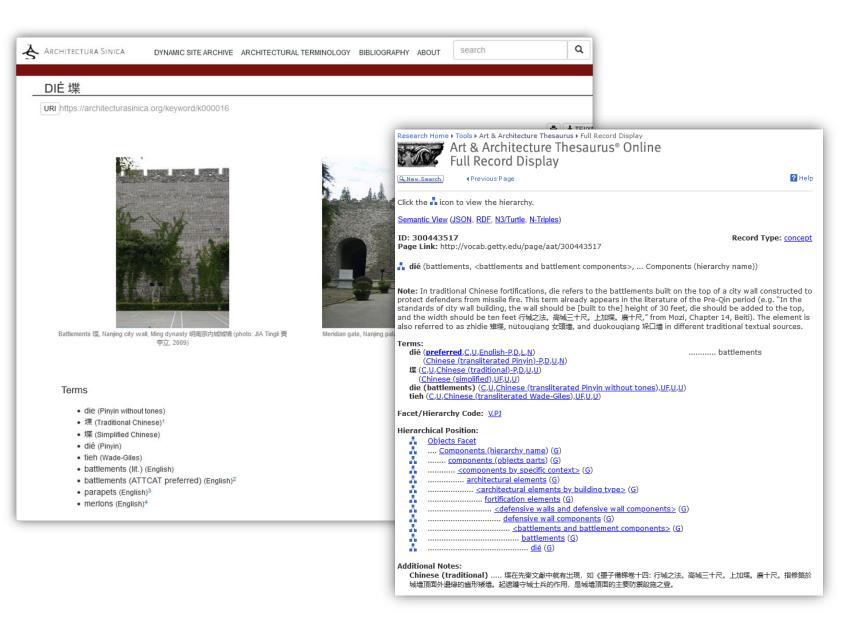
New Concepts based on cultural context

- New concept placement must converge with meaning based on the immediate parent, continuing up the hierarchy.
- If meaning diverges in any sense from the parent record(s), then the new record cannot be properly placed under a concept parent.
- While hierarchical placement can be challenging, the AAT usually allows for the unique meaning of culturally specific concepts to be placed within the existing hierarchical structure.
- English preferred terms may be marked as 'loan term', 'literal translation,' or 'translation not available' under Language Status in VCS, when an exact equivalent cannot be found in published sources in the target language.



Architectura Sinica example record

- There is not always a 1/1 relationship between a database source record and the corresponding AAT record (or hierarchy).
- In this example, the concept from Architectura Sinica is evaluated for equivalents that are appropriate for AAT.
- Translation equivalents are reviewed in relation to current AAT hierarchy.
- Loan terms (dié) are preferred where the context (Chinese traditional architecture) suggests a unique concept apart from an AAT generic equivalent (ie: battlements).
- The new culturally specific record is created as a child of the broader concept 300002595 battlements
- It is recommended to avoid proliferation of literally translated homographs throughout the AAT in favor of the unique context of the new concept.
- Contributor data sets and the AAT are separate but equal in structure and expression. Unique ID numbers allow for correspondence between data set records for equivalent concepts.



Special cases for detailed cultural references

- Some legacy AAT records need review and updates to reflect nuance.
- New concept records may conflict with existing AAT records, where the scope is too broadly stated to represent conceptual differences, requiring addition of new records to more accurately represent cultural concepts.
- Some sources may be biased, requiring research to illustrate nuance fully. Review of scholarly literature is required to illuminate evolving or inaccurate representation of culturally distinct concepts.
- AAT relies on contributors, sources, and translators in the aggregate for guidance.
- Use flags as appropriate for outdated or historically bound terms (Current; Historical; Deprecated; Pejorative).

EXAMPLE: "voodoo"

AAT 300054591 voodoo (generalized religious reference)

- Legacy AAT concept scopes do not always adequately represent the variety of historical and cultural detail available.
- In this case the original record is retained but scope is amended to highlight historical usage and to reflect context more accurately. Translation equivalents remain but may be impacted and require review.
- Historical sources may conflate concepts, minimize or overlook cultural differences, or offer conflicting information. Terminology (ex.: 'voodoo') may be used broadly in sources to refer to multiple concepts.
- These instances require diligence in disambiguation (including qualifiers and associative relationships in AAT).

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Associated records

- False equivalencies may be highlighted in seemingly related records.
- Common or popularized parlance for specific objects may be misleading (ex.:voodoo dolls).
- Consider whether an associative relationship remains appropriate.



CONCLUSIONS

- Translation equivalents are complex and bound to cultural differences in many cases.
- Consideration of cultural context is always advised (preferring usage of loan terms is often in order in these cases).
- Evaluate whether a term is synonymous in an existing record or requires a new concept record to accurately represent the sense of a term within any historical or cultural established rule, tradition, or custom.

CONTRIBUTIONS WORKFLOW Getty Vocabularies

Current contributions workflow for the Getty Vocabularies

- The current workflow involves contributions as spreadsheets.
- Vocabularies editorial team creates a new versioned spreadsheet, first processed through OpenRefine to clean data and reconcile with existing Vocabularies records.
- Vocabularies editorial team members run this new versioned spreadsheet through a Python Jupyter notebook to create a fresh XML file.
 - Review resulting error report and correct issues in latest spreadsheet.
 - Re-run spreadsheet until errors are cleared.
 - Post XML file in JIRA for Getty Digital to load into the Vocabularies test environment, where new records are evaluated for consistency and further errors.
 - New records are run through a publishing routine, after which they appear publicly on the Web.

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| # Instruct pandas to show max, 999 rows and pd.options.display.max_rows = 999 | nd columns | | | <editor_name>Anne Chen</editor_name> Anne ChenAnne Chen <td>ane></td> <td></td> <td>Start Reconciling Cancel</td> <td></td> <td></td> <td>Research Home</td> <td>Tools + Art & Architecture Thesaurus</td> <td>Full Record Display</td> <td></td> | ane> | | Start Reconciling Cancel | | | Research Home | Tools + Art & Architecture Thesaurus | Full Record Display | |
| pd.options.display.max_columns = 999 | | | | | itor_email> | | | | | STOCK STOCK | Art & Architecture The Full Record Display | saurus [®] Online | |
| [2]: EXCEL_DATA_FILE = 'C:/Users/ABeecroft/vocab | <pre>wb/testfiles/ArabicMAR14.xlsx'</pre> | | | <pre><record_type>Concept</record_type></pre> | | | | | | 1225/007 | Full Record Display | Sauras Ontine | |
| [3]: data - pd.read excel(EXCEL DATA FILE. | | | | <pre>v <preferred_term></preferred_term></pre> | | | | | | | | | |
| [3]: data = pd.read_excel(EXCEL_DATA_FILE, dtype='string' | | | | <term_text>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></term_text> | | | | | | Q New Search | Previous Page | | ? Help |
| # sheet_name = 'AAT', | # name of the sheet to load # skip second row, | | | <pre>v<term_languages> </term_languages></pre> | (Teen Language) | | | | | | | | |
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| #The reason for excluding those is because | we have no info in the schema where to map them : | te | | <term_type>Descriptor<part_of_speech>Undetermine</part_of_speech></term_type> | _Type> d | | | | | Somantic View | (JSON, RDF, N3/Turtle, N-Triples) | | Representative Images: 1 |
| exclude_columns = [# 'x P Parent 1 Type', | , , , , , , , , , , , , , , , , , , , | | | <lang_stat>Undetermined<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>tepresentative intrages. 1</td></lang_stat> | | | | | | | | | tepresentative intrages. 1 |
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| # 'x P Term 2 Term ID fr | From Contributor 1', | | | <pre> v<term_sources> v<term_source> </term_source></term_sources></pre> | | | | | | amphorae (| (storage vessels) (storage vessel | s, storage containers, Furnishings ar | d Equipment (bierarchy |
| #'x Facet Code', | MOTE: This is an attribute! | | | <pre>V<source/> </pre> | unco TDa | | | | | name)) | | | a Edalphiane (maranen) |
| 'x Comment Flag', #'x Contrib Note to Getty | | | | <brief_citation>IDEA: Int</brief_citation> | urce_ID> ernational (Digital) Dura-Euro rnational (Digital) Dura-Europ | opos Archive (Interna | | | | | | | |
|] # data = data.dcan(exclude columns, acis = | | | | | rmational (Digital) Dura-Europ | | | | | Ancient (| Greek and Roman storage vessels | of many variations usually having a larg | e oval body with a narrow |
| # data = data.drop(exclude_columns, axis = | - 1) | | | | | 5.Review errors, correct, re | e-run Z Data ia w | | | d two o | or more handles extending from th | e mouth or neck to the shoulders on th | e body. |
| | | | to pour VIAL E | Tred_Term> | | in Jupyter notebook for c | lean 7.Data is ru | in throu | gn a | | | | |
| 3. Process sprea | adsheet | 4.General | te new XML fi | IC Notes | | | | ino and | 20002 | | storage vessels) (<u>preferred,C,U</u> , storage vessels) (<u>Latin,D,U,PN</u>) torage vessel) (<u>C,U,English,AD,U</u> , | English-P,D,L,PN) | |
| | | | | Note> الرقبة إلى الكفين على اليسيري | بة منبقة ومقصين أو أكثر بمنتان من اللم أو | XML, which is loaded to VC الالاجم معلق كبر فرية | CS test publishing rout | ine anu | appea | 11.5 | storage vessels) (Latin,D,U,PN) | SN) | |
| through Jupyter I | notebook | and ei | rror reports | anguage>71160/Arabic <td></td> <td>environment for evaluat</td> <td>tion on the</td> <td>e Web.</td> <td></td> <td>(5</td> <td>torage vessel) (<u>Latin,AD,U,SN</u>)</td> <td>2007</td> <td></td> | | environment for evaluat | tion on the | e Web. | | (5 | torage vessel) (<u>Latin,AD,U,SN</u>) | 2007 | |
| | | | | Note_Source> | | | | c web. | | oras (| C.U.I.C.English.UEU.PN) | | |
| # col = col.replace('P Term1', 'P T # print(f"> '(col)'") | Term 1') | | | <pre><source/> <source id=""/>2000121194</pre> | urce ID> | | | | | rage am C.U.Ar) أمتن | phorae (C,U,English,UF,U,N) abic -P.D.U.U) | | |
| <pre># elif col.endswith("Pref.1");</pre> | | | | | | | | | | 雙耳瓶 (儲藏) | abic -P,D,U,U) 器皿) (C,U,Chinese (traditional)-P,D | . <u>υ</u>) | |
| <pre># print(f"Fixing '{col}'", end='') # col = col.replace("Source 1 Pref.</pre> | f.1", "Source 2 Pref") | | | | | | | | | | Chinese (traditional),UF,U) C.U.Chinese (traditional),UF,U) | | |
| <pre># print(f" ····> '{col}'") # elif col == 'x NP Term 5 Pref Lang 1</pre> | | | | | | | | | | 雙耳腕罐 (C.) | LChinese (traditional) UEU) | | |
| <pre># elif col == 'x NP Term 5 Pref Lang 1 # print(f"Fixing '(col)'", end='')</pre> | 1117-2 I | | | V (Ancestors) | | | | | | shuāng ěr p | oing (C,U,Chinese (transliterated H bing (C,U,Chinese (transliterated P | lanyu Pinvin)-P,UF,U) | |
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| # elif col == 'x NN Term 4 Nref for Con | mtrib I': | | | <pre><rem>Objects</rem></pre> | | | | | | amforen (C | .U.Dutch-P.D.U.U) | wade-diles(-P,01,0) | |
| <pre># print(f"Fixing '{col}'", end='') # col = 'x NP Term 4 Pref for Contr</pre> | trib 1' | | | <pre>v <parent_id></parent_id></pre> | /VP Subject TD> | | | | | amfoor (C, | J,Dutch,AD,U,U) | | |
| <pre># col = x w term + pref for contr # print(f"> '(col)") # elif col == 'x NN Term 5 Nref for Con</pre> | | | | | | | | | | amfora (C.L | J, <u>Dutch,UF,U,U</u>) (C,U,Dutch,UF,U,U) | | |
| | | | | <hier_rel_type>Genus/Specie <historic flag="">Current<td>s-BTG</td></historic></hier_rel_type> toric_Flag> | s-BTG | | | | | amphore (C | .U.French.AD.U.U) | | |
| <pre># print(f"Fixing '(col)'", end='') # col = 'x NP Term 5 Pref for Contr # print(f" use) '(col)'")</pre> | trib 1' | | | | | | | | | amphoreus | (C,U,Greek (transliterated),UF,U,N |) | |
| # elif col == 'x NP Parent 2 Contribut | stors Subject ID': | | | | | | | | | אמפורה (<mark>C,U,</mark> anfere (C | Hebrew,D,N) ,Italian-P,D,U,PN) | | |
| <pre># print(f"Fixing '[col]'", end='') # col = 'x NP Parent 2 Contributors # elif col == 'x P Parent 1 Contributo</pre> | 's Subject ID' | | | ₹/Ancestors> ₹ <subject_sources></subject_sources> | | | | | | anfora (C.U | .Italian.AD.U.SN) | | |
| # elif col -= 'x P Parent 1 Contributo | tors Subject ID': | | | <pre>v<subject_source> v<source/></subject_source></pre> | | | | | | ânforas (C, | U,Portuguese-P,D,PN) ,Portuguese,AD,SN) | | |
| | | | | (Courses TD) 3000131104 (Courses | 701 | | | | | ánforas (C, | U,Spanish-P,D,U,PN) | | |
| | | | | | | | | | | ánfora (<mark>C,U</mark> | ,Spanish,AD,U,SN) | | |
| | | | | | | | | | | | | | |

Facet/Hierarchy Code: V.TQ

Future Vocabularies system

- The Vocabulary Coordination System (VCS) was developed by Gregg Garcia and Vocabularies Editorial staff (ca.2001).
- Requires complex workarounds for loading new data and is bound to Windows environment.
- VCS is established, and functions for editorial staff but is decades old and does not allow access to contributors.
- A future system should be designed to be Web-based, providing access from anywhere, and potential elimination of spreadsheets and intermediate steps.
- Potentially simpler access for contributors.
- Should offer a more collaborative interface for Getty Vocabularies staff and global contributors.

Thank you.

Antonio Beecroft abeecroft@getty.edu Editor, Getty Vocabulary Program Getty Research Institute

