School of Library and Information Science, Simmons University

Lucy Davis Samantha Mullaly Sarah Yasuda LIS445 - Metadata Professor Pomerantz

Google Poly Metadata Schema

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OVERVIEW

This document is a specification of all elements in the Google Poly Metadata Schema, including elements and sub-elements, vocabulary encoding schemes, syntax encoding schemes, and terms from the Poly Genre Vocabulary. The Google Poly Metadata Schema is specifically catered to capture metadata on 3D objects uploaded by creators on the Google Poly platform.

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Terms for Elements	Titles or Names, Creation, Identifier, Measurements, Materials/Techniques, Subject Matter, Context, Descriptive Note, Current Location, Copyright/Restrictions, Permission to Remix
Terms for Sub-elements	Title Text, Title Language, Creation Description, Creator Role, Creator Statement, Creation Date, Creation Place, Commissioner, Commissioner Role, Remixed From, Remixed From Title, Remixed From Creator, Dimensions Description, 3D Program, Poly Genre, General Subject Terms, Copyright Statements
Vocabulary Encoding Scheme	Poly Genre Vocabulary
Syntax Encoding Scheme	ISO 639-2, ISO 8601, ISO 3166
Poly Genre Vocabulary	Tours, Animals & Pets, Architecture, Art, Culture & Humanity, Current Events, Food & Drink, Furniture & Home, History, Nature, Objects, People & Characters, Places & Scenes, Science, Sports & Fitness, Tools & Technology, Transport, Travel & Leisure

ELEMENTS

Identifier	Label	Element tag:	Sub-element of:	Description:	Data Values:	Implementation : (Required, Optional, Repeatable)
1	Titles or Names	cdwa:title		The titles or names given to the 3D object as well as the type of title, and the dates when the title was valid.		Required, Not Repeatable
1.1	Title Text	cdwa:titeT ext	cdwa:title	Titles, identifying phrases, or	Free text	Required, Not Repeatable

				names given to the 3D object.		
1.2	Title Language	cdwa:titleL anguage	cdwa:title	The language of the title or name.	ISO639-2	Required, Repeatable
2	Creation	cdwa:creat ion		The creation, design, execution, or production of the 3D resource and its components.		Required, Not Repeatable
2.1	Creator Description	cdwa:creat orDescripti on	cdwa:creation	The name, brief biographical information, and roles (if necessary) of the named or anonymous individuals or corporate bodies responsible for the design, production, manufacture, or alteration of the work, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.	Free text	Required, Repeatable
2.1.1	Creator Role	cdwa:creat orRole	cdwa:creatorD escription	The role or activity performed by a creator or maker in the conception, design, or production of a work	Free text	Optional, Repeatable
2.1.2	Creator Statement	cdwa:creat orStateme nt	cdwa:creatorD escription	Opinions offered by the artist or creator of a work that interpret and provide further	Free text	Optional, Repeatable

				information about the work and the process of its creation.		
2.2	Creation Date	cdwa:creat ionDate	cdwa:creation	The date when the object was created and published on Google Poly.	ISO 8601	Required, Not Repeatable
2.3	Creation Place	cdwa:creat ionPlace	cdwa:creation	The location where the creation took place.	ISO 3166	Optional, Not Repeatable
2.4	Commissio ner	cdwa:com missioner	cdwa:creation	The name of the individual, organization, association, or group that commissioned the work from its creator.	Free text	Optional, Repeatable
2.4.1	Commissio ner Role	cdwa:com missionerR ole	cdwa:commiss ioner	The name of the individual, organization, association, or group that commissioned the work from its creator.	Free text	Optional, Repeatable
2.5	Remixed From	poly:remix edFrom	cdwa:creation	A description of the work that the creator used to create the current work.		Optional, Repeatable
2.5.1	Remixed From Title	poly:remix Title	poly:remixedFr om	Title of the work.	Free text	Optional, Repeatable
2.5.2	Remixed From Creator	poly:remix Creator	poly:remixedFr om	Name of the creator of the work.	Free text	Optional, Repeatable
3	Identifier	dc:identifie r		An unambiguous reference to the resource within a given context.	URI	Optional, Repeatable
4	Measurem ents	cdwa:meas urements		Information about the size,		

				shape, scale, and dimensions of a work of art or architecture.		
4.1	Dimension s Description	cdwa:dime nsionDescr iption	cdwa:measure ments	Information about the dimensions, size, or scale of the work, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.	Free text	Optional, Repeatable
5	Materials/T echniques	cdwa:mate rials/techni ques		The substances or materials used in the creation of a work of art or architecture, as well as any production or manufacturing techniques, processes, or methods incorporated in its fabrication. This information includes a description of both the materials used to create the work and the way in which they were put together.		
5.1	3D Program	poly:3DPro gram	cdwa:material s/techniques	The program (software, application, etc.) used to create the 3D scenario.	Free text	Required, Not Repeatable
6	Subject Matter	cdwa:subje ctMatter		The subject matter of a work of art		

				(sometimes referred to as its content) is the narrative, iconographic, or non-objective meaning conveyed by an abstract or figurative composition. It is what is depicted in and by a work of art. It also covers the function of an object or architecture that otherwise has no narrative content.		
6.1	Poly Genre	poly:polyG enre	cdwa:subjectM atter	The type of XR scenario that best describes the work.	See Index for Poly Genre terms	Required, Not Repeatable
6.2	General Subject Terms	cdwa:gene ralSubjectT erms	cdwa:subjectM atter	Indexing terms that characterize in general terms what the work depicts or what is depicted in it. This subject analysis is the minimum required. It is recommended to also list specific subjects, if possible.	Free text	Optional, Repeatable
7	Context	cdwa:cont ext		Political, social, economic, or religious events or movements associated with the work of art or architecture at its creation and over time, including competitions. This category is also used to	Free text	Optional, Repeatable

			record the placement of a work in a particular position within an architectural context and any information about the discovery or excavation of the work.		
8	Descriptive Note	cdwa:descr iptiveNote	A textual description of the work, including a discussion of issues related to it. Important information in this note should be indexed in other appropriate categories.	Free text	Optional, Repeatable
9	Current Location	cdwa:curre ntLocation	The name and geographic location of the repository that is currently responsible for the work, or, for monumental works and architecture, the geographic location of the work. If the work is lost, destroyed, has location unknown, or the work is in an anonymous private collection, indicate this.	Free text	Required, Not Repeatable
10	Copyright/ Restriction s	cdwa:copyr ight/restric tions	An identification of the individual or group that holds the rights to use, exhibit, or reproduce a work, along with		Required, Repeatable

				an indication of any existing restrictions on its reproduction, exhibition, or use. For Google Poly, works may fall under the CC-BY license.		
10.1	Copyright Statement	cdwa:copyr ightStatem ent	cdwa:copyrigh t/restrictions	A formal statement of the copyright of a work, and/or any restrictions placed on it, including licensing information.	Free text	Optional, Not Repeatable
11	Permission to Remix	poly:permi ssionToRe mix		The creator has the capability of making the work remixable or not. To remix means to use this work in a new work.	Yes or No	Required, Not Repeatable

WEBFORM

Please complete this webform to upload the 3D object and submit the required metadata for the 3D object.

Share your creation!

Please upload your object files (.obj, .glTF, .glb, .fbx), and .mtl files, and texture files (.png, .jpg) here.

UPLOAD

You can also publish directly from <u>Blocks</u>, <u>Tilt Brush</u>, or <u>Tour Creator</u>.

Input the metadata for your creation!

Input your metadata in the third column of the table below.

* Required element

To add another repeatable element

Element:	Description:	Metadata for your 3D object:
Title Text *Required	Titles, identifying phrases, or names given to the 3D object.	
Title Language *Required	The language of the title or name. Please use the <u>ISO 639-2</u> standard.	
Creator Description *Required	The name, brief biographical information, and roles (if necessary) of the named or anonymous individuals or corporate bodies responsible for the design, production, manufacture, or alteration of the work, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.	
Creator Role	The role or activity performed by a creator or maker in the conception, design, or production of a work	
Creator Statement	Opinions offered by the artist or creator of a work that interpret and provide further information about the work and the process of its creation.	
Creation Date *Required	The date when the object was created and published on Google Poly. Please use the <u>ISO 8601</u> standard.	
Creation Place	The location where the creation took place. Please use the <u>ISO 3166</u> standard.	
Commissioner	The name of the individual, organization, association, or group that commissioned the work from its creator.	
Commissioner Role	The name of the individual, organization, association, or group that commissioned the work from its creator.	
Remixed From	A description of the work that the creator used to create the current work.	
Remixed From Title	Title of the work.	
Remixed From Creator	Name of the creator of the work.	

Identifier	An unambiguous reference to the resource within a given context.	
Dimensions Description	Information about the dimensions, size, or scale of the work, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.	
Materials/Tech niques	The substances or materials used in the creation of a work of art or architecture, as well as any production or manufacturing techniques, processes, or methods incorporated in its fabrication. This information includes a description of both the materials used to create the work and the way in which they were put together.	
3D program *Required	The program (software, application, etc.) used to create the 3D scenario.	
Poly Genre *Required	The type of XR scenario that best describes the work.	
General Subject Terms	Indexing terms that characterize in general terms what the work depicts or what is depicted in it. This subject analysis is the minimum required. It is recommended to also list specific subjects, if possible.	
Context	Political, social, economic, or religious events or movements associated with the work of art or architecture at its creation and over time, including competitions. This category is also used to record the placement of a work in a particular position within an architectural context and any information about the discovery or excavation of the work.	
Descriptive Note	A textual description of the work, including a discussion of issues related to it. Important information in this note should be indexed in other appropriate categories.	
Current Location *Required	The name and geographic location of the repository that is currently responsible for the work, or, for monumental works and architecture, the geographic location of the work. If the work is <i>lost, destroyed</i> , has <i>location unknown</i> , or the work is in an anonymous private collection, indicate this.	
Copyright Statement	A formal statement of the copyright of a work, and/or any restrictions placed on it, including	

*Required	licensing information.	
Permission to Remix *Required	The creator has the capability of making the work remixable or not. To remix means to use this work in a new work.	

Once you have uploaded all files for your 3D object *and* filled out the metadata form, please click submit.



Need help? Talk to a Google Poly metadata technician at polyhelpdesk@google.com

ADVANCED SEARCH FORM

KEY:
represents a Free Text search box
====== represents a drop down menu
Keyword(s)
Creator
Title
Category ======== <- Drop down menu to include Poly Genre Vocabulary list (Tours, Animals & Pets, Architecture, Art, Culture & Humanity, Current Events, Food & Drink, Furniture & Home, History, Nature, Objects, People & Characters, Places & Scenes, Science, Sports & Fitness, Tools & Technology, Transport, Travel & Leisure)
Date ====== to ======= <- Drop down menu displays dates available in the repository in year format (YYYY)
Location
Remixable ======= <- Drop down menu to include Yes or No options

ALGORITHM ERROR-CHECKING FOR USER-CONTRIBUTED METADATA

The webform will incorporate an algorithm to error-check user-contributed metadata with the following guidelines:

- Each submission will be error-checked by making sure all required element fields are filled
- Each element with specific format requirements for the data values will be error-checked to comply with the required ISO standard or controlled vocabulary.
- If submission includes errors, the user will be directed to an error page with an edited copy of its submission.
- Error page will include highlighted sections for elements with errors and textual comments on potential solutions (i.e. ISO formats, controlled vocabulary).
- For further assistance, the webform will include contact information for users to connect with a metadata technician.

EXAMPLE FRAMEWORK FOR A METADATA RECORD

```
<?xml version="1.0" encoding="UTF-8"?>
<poly: XR scenario>
<cdwa: title>
   <cdwa: titleText>Yellowstone National Park </cdwa: titleText>
   <cdwa: titleLanguage>eng</titleLanguage>
</cdwa: title>
<cdwa: creation>
   </cdwa: creatorDescription>
   <cdwa: creationDate> 2019-05-28 </cdwa: creationDate>
</cdwa: creation>
<dc: identifier> https://poly.google.com/view/7HRHP4-mw94 </dc:
identifier>
<cdwa: measurements>
     <cdwa: dimensionDescription> 5 panoramic scenes </cdwa:</pre>
dimensionDescription>
</cdwa: measurements>
```

<cdwa: materials/techniques>

<poly: 3DProgram> Tour Creator </3DProgram>

</cdwa: materials/techniques>

<cdwa: subjectMatter>

<poly: polyGenre> Tours </poly: polyGenre>

<cdwa: generalSubjectTerms> Nature, National Parks, Wildlife,
Idaho, Montana, Wyoming, Yellowstone </cdwa: generalSubjectTerms>

</cdwa: subjectMatter>

<cdwa:descriptiveNote> Yellowstone National Park is an American
national park located in Wyoming, Montana, and Idaho. It is widely
known as the first national park and is known for its beautiful
environment and wildlife. </cdwa: descriptiveNote>

<cdwa: currentLocation> Google Poly </cdwa: currentLocation>

<cdwa: copyrightRestrictions> Public </cdwa: copyright/Restrictions>

<poly: permissionToRemix> Yes </poly: permissionToRemix>

</poly: XR scenario>