

How to use Digital 3D formats .glb and .gltf in the Universal Viewer

Explanation and Live Demonstration



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
Digital 3D formats .glb and .gltf in the Universal Viewer

- As of the May 2023 release Alma supports 3D formats .glb and .gltf in the Universal Viewer.
- We will now first define service availability rules so that the Universal Viewer can be used with files that have suffix .glb and .gltf
- We will navigate to “Configuration > Fulfillment > Discovery Interface Display Logic > Viewer Services” and edit the Universal Viewer

Digital 3D formats .glb and .gltf in the Universal Viewer

Viewer Services

[+ Add Service](#)  

	Active	▲ Service Name	↕ Service Code	Service Description		
	1	<input type="checkbox"/>	Internet Archive Book Reader	InternetArchiveBookReader	Internet Archive Book Reader	
	2	<input checked="" type="checkbox"/>	Universal Viewer	UniversalViewer	Universal Viewer	
	3	<input type="checkbox"/>	Alma Viewer	AlmaViewer	Digital Version(s)	<input type="text" value="Edit"/>

Digital 3D formats .glb and .gltf in the Universal Viewer

- In the “Service Availability Rules” tab we will add a rule.
- We will make one rule for .glb files and one rule for .gltf files so that they can be used in the Universal Viewer

Digital 3D formats .glb and .gltf in the Universal Viewer

The screenshot shows the 'Service Availability Rules' configuration page. At the top left, there is a back arrow and the title 'Service Availability Rules'. At the top right, there are 'Cancel' and 'Save' buttons. Below the title bar, there is a 'Universal Viewer' breadcrumb with a right-pointing arrow. A tabbed interface shows 'Service Details' and 'Service Availability Rules', with the latter being the active tab and highlighted with a red box. Below the tabs is a 'Rules List' section with a dropdown arrow. At the bottom right of the 'Rules List' section, there is a '+ Add Rule' button, also highlighted with a red box.

Digital 3D formats .glb and .gltf in the Universal Viewer



< Edit rule Cancel **Save**


Name *

Description

Created By **Alicia Chen** Created On **05/02/2023**

Updated By **Alicia Chen** Updated On **05/02/2023**

Input Parameters + Add Parameter ▾  

Name	Operator	Value	
1 Representation's Files	Contains	.gltf	

Output Parameters ▾

Display * ▾

Digital 3D formats .glb and .gltf in the Universal Viewer

Edit rule Cancel Save

Name *

Description

Created By **Alicia Chen** Created On **05/02/2023**

Updated By **Alicia Chen** Updated On **05/02/2023**

Input Parameters

+ Add Parameter 📄 ⚙️



Name	Operator	Value	
1 Representation's Files	Contains	.glb	⋮

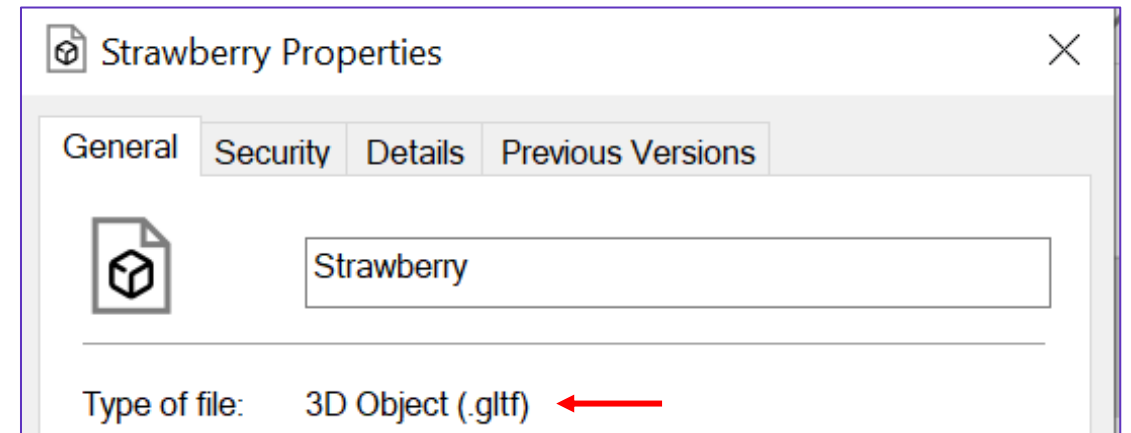
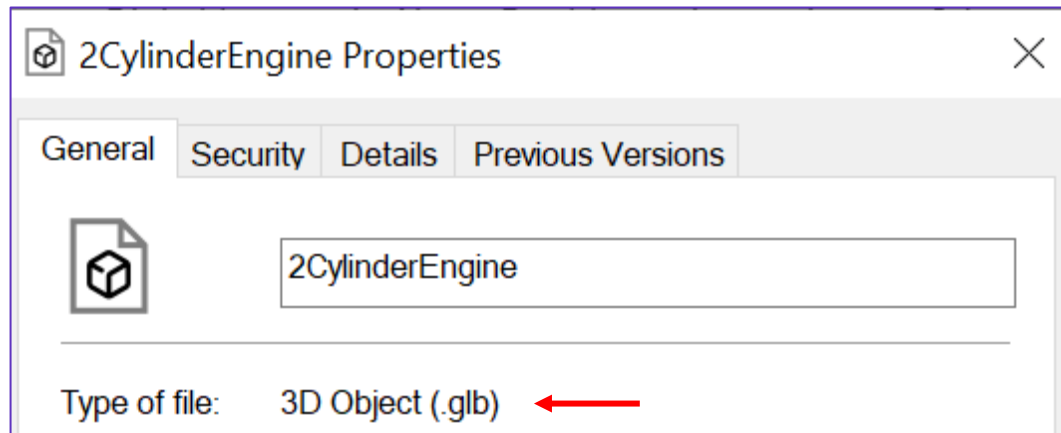
Output Parameters

Display * ▼

Digital 3D formats .glb and .gltf in the Universal Viewer

- We have the following two 3D format files:

Name	Status	Date modified	Type	Size
 2CylinderEngine	✓	4/17/2023 3:55 PM	3D Object	1,796 KB
 Strawberry	✓	4/17/2023 3:55 PM	3D Object	17,829 KB



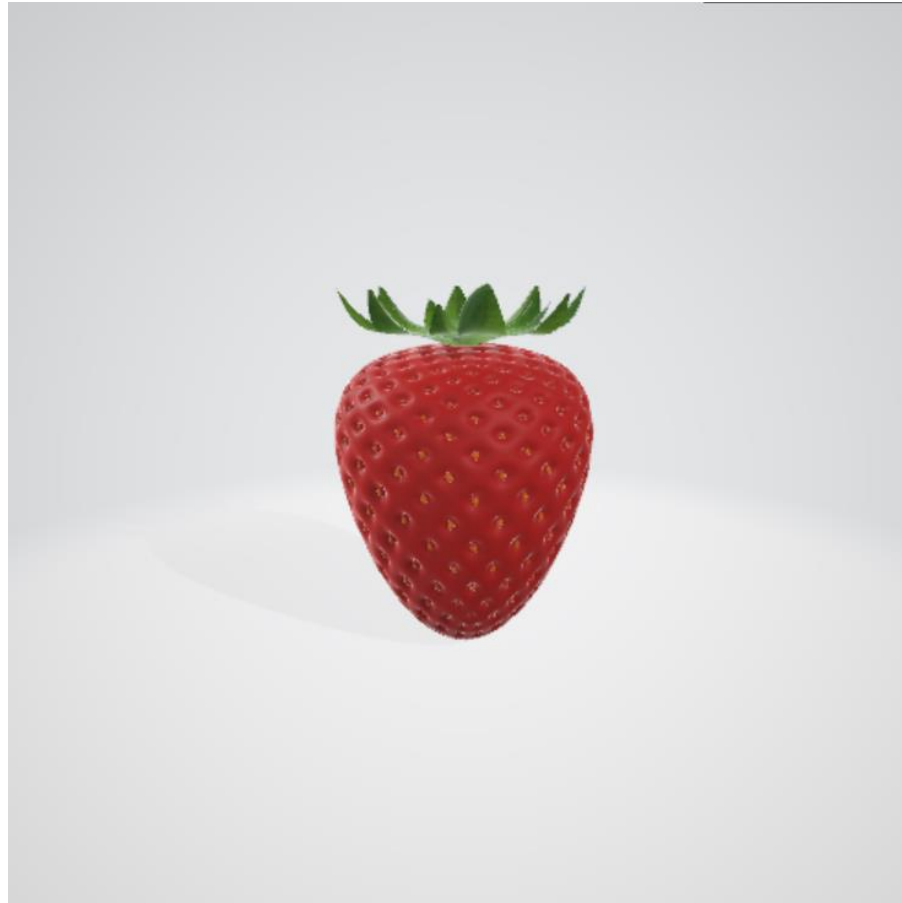
Digital 3D formats .glb and .gltf in the Universal Viewer

- Here is 2CylinderEngine



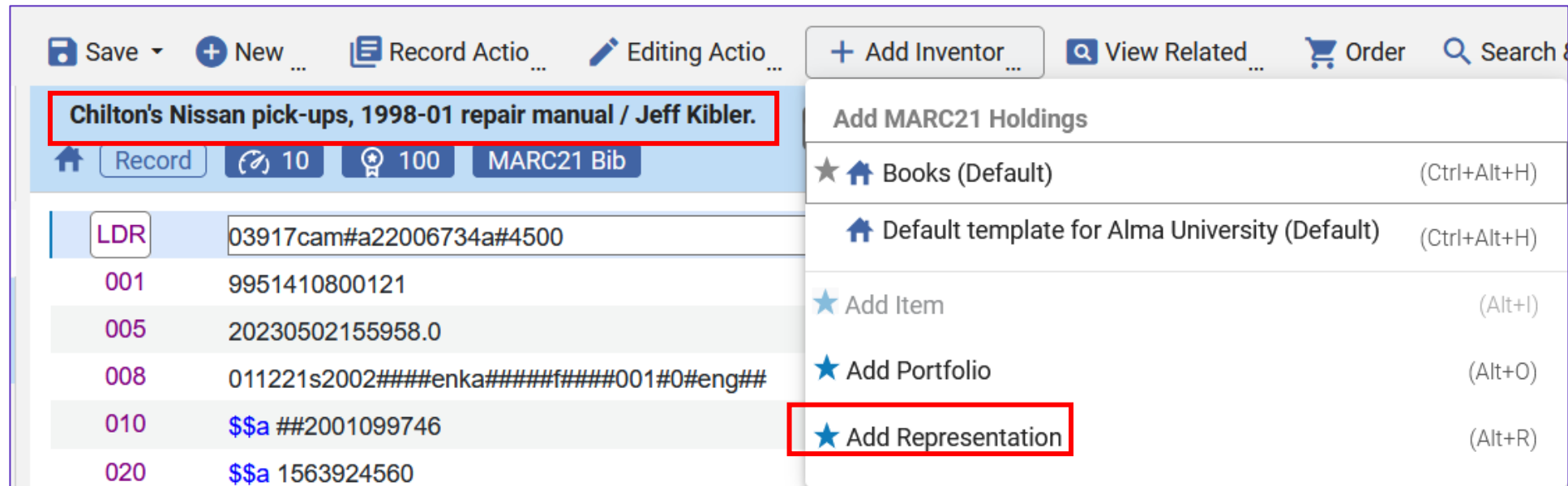
Digital 3D formats .glb and .gltf in the Universal Viewer

- Here is Strawberry



Digital 3D formats .glb and .gltf in the Universal Viewer

- For title “Chilton's Nissan pick-ups, 1998-01 repair manual” we will add a representation



The screenshot shows the Universal Viewer interface. The title bar at the top reads "Chilton's Nissan pick-ups, 1998-01 repair manual / Jeff Kibler." Below the title bar, there are several buttons: "Record", "10", "100", and "MARC21 Bib". The main area displays a list of records with the following fields:

LDR	03917cam#a22006734a#4500
001	9951410800121
005	20230502155958.0
008	011221s2002#####enka#####f#####001#0#eng##
010	\$\$a ##2001099746
020	\$\$a 1563924560

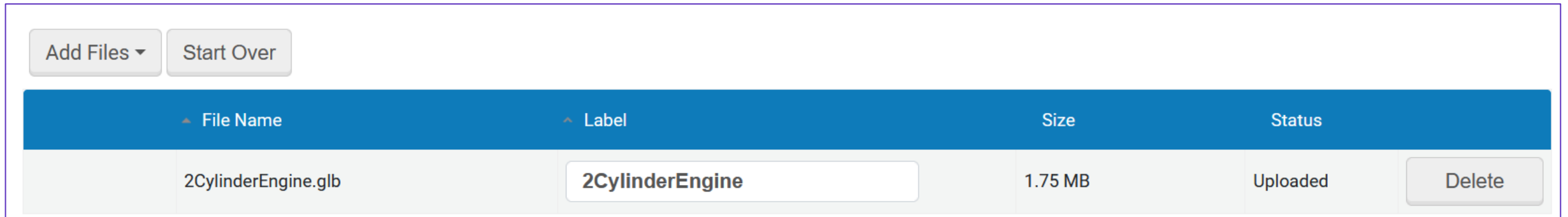
On the right side, there is a menu with the following options:

- Add MARC21 Holdings
- ★ 🏠 Books (Default) (Ctrl+Alt+H)
- 🏠 Default template for Alma University (Default) (Ctrl+Alt+H)
- ★ Add Item (Alt+I)
- ★ Add Portfolio (Alt+O)
- ★ Add Representation (Alt+R)

The "Add Representation" option is highlighted with a red box.

Digital 3D formats .glb and .gltf in the Universal Viewer

- We have added 2CylinderEngine.glb to the representation



The screenshot shows a file management interface. At the top left, there are two buttons: "Add Files" with a dropdown arrow and "Start Over". Below these is a table with a blue header and one data row. The table has four columns: "File Name", "Label", "Size", and "Status". The "File Name" column contains "2CylinderEngine.glb". The "Label" column contains "2CylinderEngine" and has a text input field. The "Size" column contains "1.75 MB". The "Status" column contains "Uploaded". To the right of the "Status" column is a "Delete" button.

File Name	Label	Size	Status
2CylinderEngine.glb	<input type="text" value="2CylinderEngine"/>	1.75 MB	Uploaded

Digital 3D formats .glb and .gltf in the Universal Viewer

- For title "Strawberry girl" we will add a representation

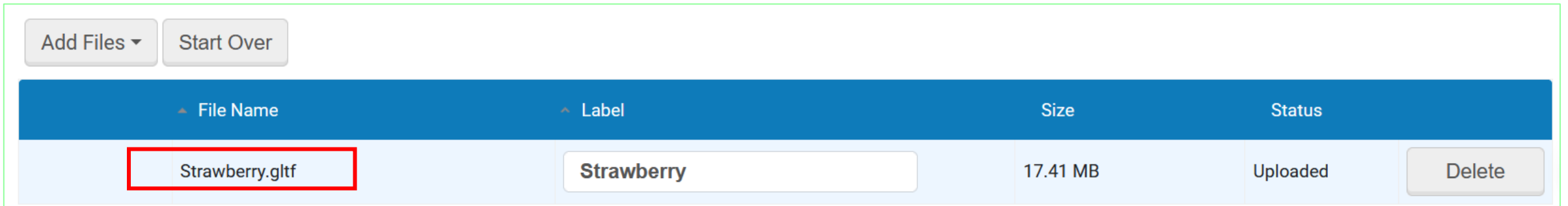
The screenshot displays the Universal Viewer interface for a record titled "Strawberry girl / written and illustrated by Lois Lenski." The record details are as follows:

Field	Value
LDR	04699cam#a2200937li#4500
001	9951410600121
005	20230502161609.0
008	721213s1945####pauaf##c#####000#1#eng##
010	\$\$a ###45007609#
019	\$\$a 301295 \$\$a 54789051 \$\$a 123007245 \$\$a 4958

The "Add Representation" option in the right-hand menu is highlighted with a red box.

Digital 3D formats .glb and .gltf in the Universal Viewer

- We have added Strawberry.gltf to the representation



The screenshot shows the Universal Viewer interface. At the top left, there are two buttons: 'Add Files' with a dropdown arrow and 'Start Over'. Below these is a table with a blue header and a light blue body. The table has four columns: 'File Name', 'Label', 'Size', and 'Status'. The first row contains the file 'Strawberry.gltf', which is highlighted with a red border. The 'Label' column contains a text input field with 'Strawberry' entered. The 'Size' column shows '17.41 MB' and the 'Status' column shows 'Uploaded'. A 'Delete' button is located at the end of the row.

File Name	Label	Size	Status
Strawberry.gltf	Strawberry	17.41 MB	Uploaded

Digital 3D formats .glb and .gltf in the Universal Viewer

- Let's take a look at "Chilton's Nissan pick-ups, 1998-01 repair manual" in the Universal Viewer via Primo VE

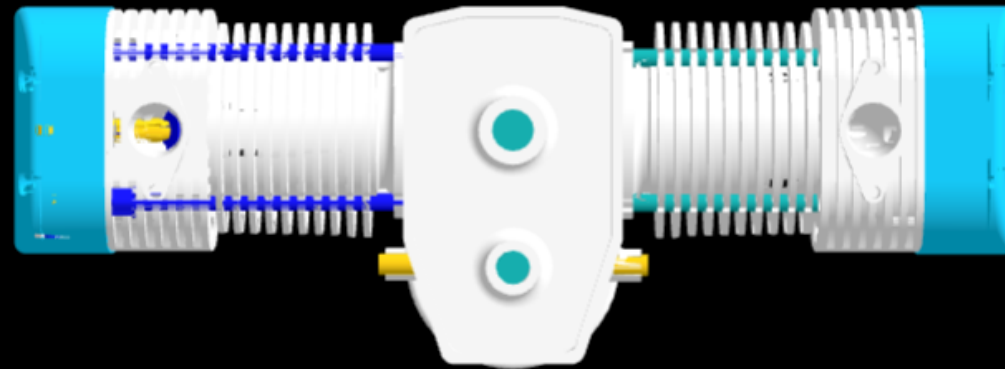
The screenshot displays the 'View Online' section of a Primo VE search result. It features a 'Digital Version(s) Availability' section with the text 'Showing 1 of 1 results'. A red box highlights the 'Universal Viewer' entry, which lists '1 file/s (glb, 1.75 MB)'. Below this, the 'Details' section is visible, with a red box highlighting the 'Title' field: 'Chilton's Nissan pick-ups, 1998-01 repair manual'. The 'Creator' field is also visible, listing 'Kibler, Jeff.' and 'Chilton Book Company.' with right-pointing chevrons.

View Online	
Digital Version(s) Availability <i>Showing 1 of 1 results</i>	
Universal Viewer	1 file/s (glb, 1.75 MB)
Details	
Title	Chilton's Nissan pick-ups, 1998-01 repair manual
Creator	Kibler, Jeff. > Chilton Book Company. >

Digital 3D formats .glb and .gltf in the Universal Viewer

Chilton's Nissan pick-ups, 1998-01 repair manual / Jeff Kibler.

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Digital 3D formats .glb and .gltf in the Universal Viewer

- Let's take a look at "Strawberry girl" in the Universal Viewer via Primo VE

The screenshot shows a search result for 'Strawberry girl' in the Universal Viewer. The result is highlighted with a red box. The title 'Strawberry girl' is also highlighted with a red box. The creator information is 'Lenski, Lois, 1893-1974, author, illustrator.' with a right-pointing arrow.

View Online

Digital Version(s) Availability
Showing 1 of 1 results

Universal Viewer 1 file/s (gltf, 17.41 MB)
--

Details

Title	Strawberry girl
Creator	Lenski, Lois, 1893-1974, author, illustrator. >

Digital 3D formats .glb and .gltf in the Universal Viewer

Strawberry girl / written and illustrated by Lois Lenski.

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