



Logged in as: *brutzman* ( Don Brutzman - developer ) 2021-03-16  
09:46 PDT

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Issue #

Recently Visited: 0001354, 0001355, 0001348, 0001353, 0001335

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ID	Project	Category	View Status	Date Submitted	Last Update
0001354	X3D	19775-1 (Abstract)	public	2021-03-15 09:50	2021-03-16 09:46
<b>Reporter</b>	brutzman				
<b>Assigned To</b>	brutzman				
<b>Priority</b>	normal	<b>Severity</b>	minor	<b>Reproducibility</b>	always
<b>Status</b>	assigned	<b>Resolution</b>	open		

**Summary** 0001354: regularization of HAnimHumanoid.info and GeoMetadata.summary information as MetadataSet collection

**Description** Metadata can be contained in HAnimHumanoid info field (as "name=value" strings) and GeoMetadata summary ("name" "value" string pairs).

Practice has shown that these different techniques are each difficult to perform, parse, and keep updated.

Suggested refinement: regularization of HAnimHumanoid.info and GeoMetadata.summary information as MetadataSet collection can simply metadata handling and encourage metadata use.

Maintenance of typed MetadataSet collections facilitates query by X3D Ontology techniques and can also be supported by QA tools.

**Additional Information** Example solution  
\* <https://www.web3d.org/x3d/content/examples/Basic/Geospatial/newGeospatialSceneIndex.html>

```
<GeoMetadata
  url=' "http://exampleResource.com/ExternalMetadataDescription.x3d" '>
<!-- original GeoMetadata summary=""title" "example title" "description" "example
description"" -->
<MetadataSet name='GeoMetadata.summary' reference=' https://www.web3d.org/specifications/X3Dv4Draft/ISO-IEC19775-1v4-CD/Part01/components/geospatial.html#GeoMetadata ' containerField='metadata'>
```

KoreanCharacter01Jin.ttl  
Completed



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```

<MetadataString containerField='value' name='title' value='TODO'/>
<MetadataString containerField='value' name='description' value='TODO'/>
<MetadataString containerField='value' name='coordinateSystem' value='TODO'/>
<MetadataString containerField='value' name='horizontalDatum' value='TODO'/>
<MetadataString containerField='value' name='verticalDatum' value='TODO'/>
<MetadataString containerField='value' name='ellipsoid' value='TODO'/>
<MetadataString containerField='value' name='extent' value='0'/>
<MetadataFloat containerField='value' name='resolution' value='0'/>
<MetadataString containerField='value' name='originator' value='TODO'/>
<MetadataString containerField='value' name='copyright' value='TODO'/>
<MetadataString containerField='value' name='date' value='TODO'/>
<MetadataString containerField='value' name='metadataFormat' value='TODO'/>
<MetadataString containerField='value' name='dataUrl' value='TODO'/>
<MetadataString containerField='value' name='dataFormat' value='TODO'/>
</MetadataSet>
</GeoMetadata>

```

**Example solution**

\* <https://www.web3d.org/x3d/content/examples/HumanoidAnimation/Characters/KoreanCharacter01JinIndex.html>

```

<HAnimHumanoid DEF='hanim_Jin' name='Jin' scale='0.0225 0.0225 0.0225'>
<!-- HAnimHumanoid original info=""authorName=Chul Hee Jung and Myeong Won Lee"
"authorEmail=myeongwonlee@gmail.com" "creationDate=31 March 2011"
"humanoidVersion=2.0" "gender=female" "height=1.5" -->
<MetadataSet name='HAnimHumanoid.info' reference=' https://www.web3d.org/documents/specifications/19774/V2.0/Architecture/ObjectInterfaces.html#Humanoid '
containerField='metadata'>
  <MetadataString containerField='value' name='authorName' value='Chul Hee Jung
and Myeong Won Lee'/>
  <MetadataString containerField='value' name='authorEmail'
value='myeongwonlee@gmail.com'/>
  <MetadataString containerField='value' name='creationDate' value='31 March
2011'/>
  <MetadataString containerField='value' name='gender' value='female'/>
  <MetadataFloat containerField='value' name='height' value='1.5'/>
  <MetadataString containerField='value' name='humanoidVersion' value=""2.0""/>
</MetadataSet>

```

**Tags**V4.0 Resolution **Attach Tags**

(Separate by ",")

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**Notes**

-0002776

**brutzman** (developer)

2021-03-15 10:11

Last edited: 2021-03-15

10:12

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Tables of metadata keys and descriptions remain unchanged.

Still TODO is proposed modification to X3D4 specification:

1. Add MetadataSet examples,

2. Decide:

a. require MetadataSet and deprecates (allow) or remove (forcing conversion) of each MFString field, or

b. note that both forms are equivalent (allowing use of prior version), and show conversion of summary/info MFString field into a MetadataSet.

Merit of forced conversion for X3D4 is that results are simpler (not carrying forward some heavy baggage!) and fully consistent across all variant file encodings and programming languages, especially Semantic Web query.

-0002777

**brutzman** (developer)

2021-03-15 10:14

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09:46

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Also need to indicate that HAnim info height/weight (and maybe age) are MetadataFloat in base units vice strings.

- height, meters

- weight, kilograms

- age, maybe best left as string (e.g. "child")

**Add Note****Note**

Add Note

### [-] Add Note

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Date Modified	Username	Field	Change
2021-03-15 09:50	<a href="#">brutzman</a>	New Issue	
2021-03-15 09:50	<a href="#">brutzman</a>	Status	new => assigned
2021-03-15 09:50	<a href="#">brutzman</a>	Assigned To	=> brutzman
2021-03-15 09:50	<a href="#">brutzman</a>	Tag Attached: V4.0 Resolution	
2021-03-15 09:53	<a href="#">brutzman</a>	Description Updated	<a href="#">View Revisions</a>
2021-03-15 09:53	<a href="#">brutzman</a>	Additional Information Updated	<a href="#">View Revisions</a>
2021-03-15 09:55	<a href="#">brutzman</a>	Additional Information Updated	<a href="#">View Revisions</a>
2021-03-15 10:11	<a href="#">brutzman</a>	Note Added: 0002776	
2021-03-15 10:12	<a href="#">brutzman</a>	Note Edited: 0002776	<a href="#">View Revisions</a>
2021-03-15 10:14	<a href="#">brutzman</a>	Note Added: 0002777	
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