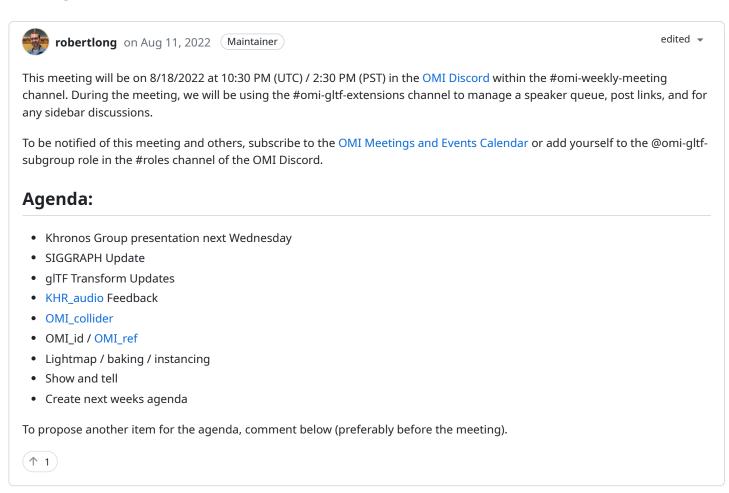


OMI glTF Working Group Meeting 8/18/2022 #102

robertlong started this conversation in General



3 comments

Oldest Newest Top



robertlong on Aug 18, 2022 Maintainer

aintainer Author

edited 🕶

Notes

- Presenting KHR_audio to Khronos Group next Wednesday
- SIGGRAPH
 - o Possible collaboration between VRM Consortium and Khronos through MSF to do technical review of the spec
- We should push on Khronos to merge the UnityGLTF branch from Needle Tools
- Alternate path is unity asset bundle loader https://gitlab.com/lox9973/uvw.js/
- · gITF Transform
 - Working on extensions in ThirdRoom https://github.com/matrix-org/thirdroom/tree/gltf-transform-instancing/src/asset-pipeline

- We should add a function for converting nodes named _col or _collider from OnCyber / Godot to _omi_collider
- https://twitter.com/donrmccurdy/status/1559860087178641408
- UnityGLTF
 - o Also working on UnityGLTF extensions for lightmaps, colliders, and audio
 - o Will open source the Thirdroom UnityGLTF extension code
- Lightmap Extension should not remove lights it should add tags to signify whether they should be realtime, mixed, or baked. If the runtime doesn't support lightmaps it'll fall back to realtime lighting.



0 replies



futuristudios on Aug 18, 2022 Collaborator

video recording of call on ipfs.





0 replies



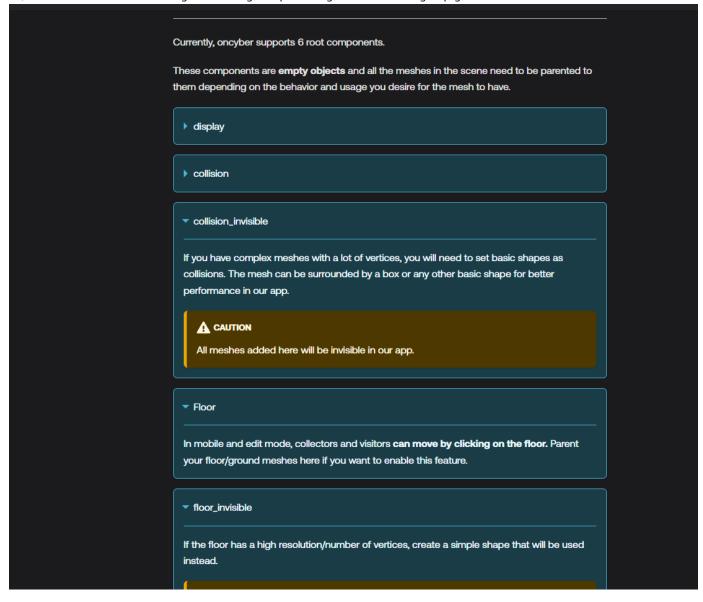
madjin on Aug 19, 2022 Collaborator

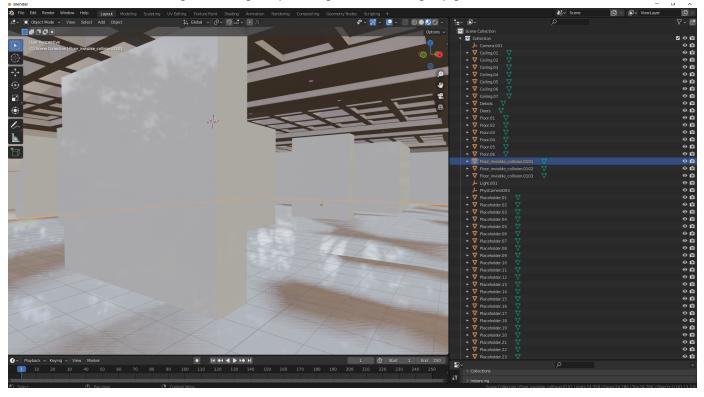
While disscussing OMI_collider we started chatting about name schemes, oncyber and hyperfy are currently using such for worlds, Godot has special names like -col

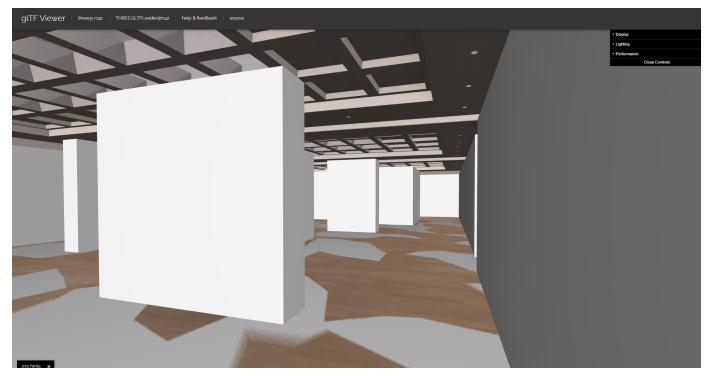
oncyber

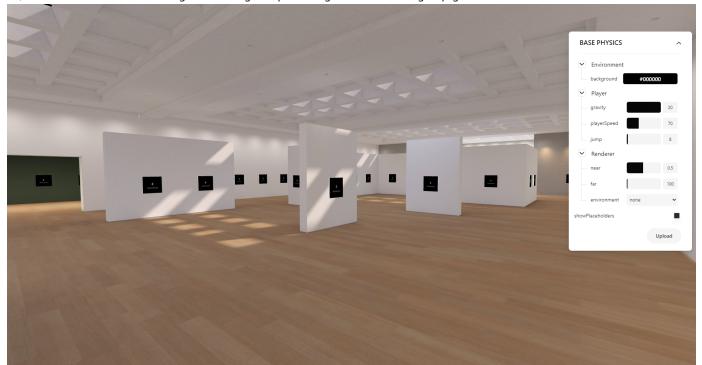
These components are empty objects and all the meshes in the scene need to be parented to them depending on the behavior and usage you desire for the mesh to have.

https://docs.oncyber.io/architects/getting-started https://oncyber.io/uploader https://gltf-viewer.donmccurdy.com/









hyperfy

https://docs.hyperfy.io/3d-models#how-do-i-add-colliders

How do I add colliders?

By default your meshes will not be collidable and you will walk (or fall) right through them.

To add colliders, there are two options depending on the kind of mesh you have:

- 1. If you add _collider to the name of your mesh, it will also be used as a convex collider.
- 2. If you add _xcollider to the name of your mesh, it will only be used as a convex collider (it wont be rendered).

NOTE: Apply your transforms! If your colliders show up in the wrong place inside Hyperfy you likely scaled them. Click Object -> Apply -> All Transforms to reset them.

The following examples demonstrate when to use one or the other:

- If your mesh is a simple cube then it is already low-poly and convex, so you can just append _collider to the name of your mesh and voila!
- If your mesh is a curved wall then it won't be convex, so you'll need to create a few convex shapes to follow the curve of the wall and label them with _xcollider so that they aren't rendered.
- If your mesh is an entire house then you'll need to place some extra cubes in the scene in the same position as each wall or floor etc, and label them with _xcollider so they don't get rendered.

When using _xcollider meshes, its worth going to Object Properties -> Viewport Display and setting Display As to Wire so that they don't get in the way in blender. You could also add all your invisible colliders to a Collection to easily show/hide them all at once.



0 replies



Labels

None yet

3 participants





