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OMI glTF Working Group Meeting 6/16/2022 #90

fire started this conversation in **General**



fire on Jun 16, 2022

Collaborator

edited ▾

This meeting will be on 6/16/2022 at 10:30 PM (UTC) / 2:30 PM (PST) in the [OMI Discord](#) within the #omi-weekly-meeting channel. During the meeting, we will be using the #omi-glTF-extensions channel to manage a speaker queue, post links, and for any sidebar discussions.

To be notified of this meeting and others, subscribe to the [OMI Meetings and Events Calendar](#) or add yourself to the @omi-glTF-subgroup role in the #roles channel of the OMI Discord.

Agenda:

- [KHR_audio](#) feedback
 - No new changes from the previous meeting.
 - Q? What is the contact on Khronos.
 - Q? What is the finish line?
 - Q? Who is on top of the topic at OMI?
 - Review PR from antpb
- [OMI_collider](#)
- [OMI_id](#) / [OMI_ref](#)
- End of the meeting show and tell period

To propose another item for the agenda, comment below (preferably before the meeting).

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2 comments

Oldest

Newest

Top



madjin on Jun 16, 2022

Collaborator

edited ▾

- to get the khr audio extension over the finish line we need:
 - to believe its ready, the ideas we attempt to get it right
 - setup / join meeting with khronos group to be ratified
 - what else can be marked as 'nice to have' vs 'must have'?

Lyuma:

There's an [open PR](#) in our group by antpb to adjust feedback from khronos

Reviewing recent comments:

Once this is clear, I can update the PR and get the sample asset matching.

You can use the glTF.image schema as a reference for `audio`, it's almost the same.



robertlong commented 7 days ago

Member



Also one more change we probably want to make is to change `input` to `sources`. This is closer in naming to the `audioSources` and makes it a bit more obvious.



robertlong reviewed 7 days ago

[View changes](#)

extensions/2.0/KHR_audio/schema/glTF.KHR_audio.schema.json Outdated

```
...    ...    @@ -11,6 +11,30 @@  
11    11                "type": "object",  
12    12                "$ref": "source.schema.json"  
13    13            },  
14    +            "playing": {
```



robertlong 7 days ago

Member



Also I think we wanted to change `playing` back to `autoPlay`



oveddan commented 6 days ago



Awesome work and I can see myself using this in my project!

Some questions:

- With this extension, how would you specify the actual position of the audio? Is it dependent on the position of the parent element? Or is there a position and rotation attribute?

Suggested future improvements:

- Being able to filter audio channels in each emitter, i.e. only play a single audio channel
- A flag indicating that playback position should be synchronized across user sessions.

- Group checking to see if there's any addressable issues with it with a fine comb
- Robert working on implementation in Third Room by EOD

↑ 1

0 replies



madjin on Jun 16, 2022

Collaborator

edited ▾

- I bring up janusweb [sound implementation](#) as reference

```

this.defineProperties({
  sound_id: { type: 'string', set: this.updateSound },
  singleshoot: { type: 'boolean', default: false },
  positional: { type: 'boolean', default: null },
  loop: { type: 'boolean', default: false },
  auto_play: { type: 'boolean', default: false },
  play_once: { type: 'boolean', default: false },
  dist: { type: 'float', default: 1.0, set: this.updateSound },
  pitch: { type: 'float', default: 1.0, set: this.updateSound },
  gain: { type: 'float', default: 1.0, set: this.updateSound },
  starttime: { type: 'float', default: 0.0, set: this.updateSound },
  distancemodel: { type: 'string', default: 'inverse', set: this.updateSound },
  rolloff: { type: 'float', default: 1.0, set: this.updateSound },
  rect: { type: 'string', set: this.updateSound }
});

```

asked bai some questions about it

What's singleshoot?

oh, it's so you can just fire a sound and it self-destructs when it's done playing
 like...sometimes you want a sound that's persistent, like a looping sound - but sometimes you want something like a bounce, or some other reaction noise, and singleshoot spawns the sound object at the give position, plays it once, and then dies
 it's good for sounds that are going to play occasionally but not all the time - for sounds that happen frequently, like impact noises or weapon sound effects or whatever, it's often better to use an objectpool of sounds

whats starttime used for usually?

I often use starttime for ambient loops - like that Blacktop Hoops world I built, it's based on a real streetball court in New York, and it has some ambient sound effect loops recorded from the real location, like 3-4 minutes long
 so I can use that same ambient loop with spatialized sound emitters positioned around the court, on the sidewalk and streets, but with different offsets
 so when you're moving around you get that sense of traffic and pedestrian and other random ambient noise coming from all around you, without having to use unique recordings for each location
 it's not really segmented, it's playing the whole loop at each location - but because it's offset by some random amount, it feels more like infinite non-repeating loops
 like you might hear a dog bark from your back left, and then a minute and 37 seconds later the same dog barks from your back right

maybe that can be used for bird chirps

yeah exactly, that kind of thing
 if you have a couple different ambient clips of different lengths you can pretty efficiently do what feels like infinitely-unique sounds, because they're gonna loop at different times
 lots of tricks you can play to avoid the problem of super-repetitive sound....nothing drives me crazier than repeating ambient bird noises or whatever where it's a constant pattern 😊

in the context of glTF suggestions I'd say, singleshoot is pretty engine-specific, that's more of a runtime thing, whereas the starttime offset would actually be useful to be able to specify in a glTF, if glTF is going to support positional sound emitters that can reference the same audio buffer

```

janus sound.* => KHR_audio.*
  sound_id: .name
  singleshoot: **MISSING**
  positional: .type=="positional"

```

```
    loop: .loop
    auto_play: .playing
    play_once: .loop==false?
    dist: .maxDistance
    pitch: **MISSING**
    gain: .gain
    starttime: **MISSING**
    distancemodel: .distanceModel
    rolloff: .rolloffFactor
    rect: **MISSING**
```

Couple record player implementations (janusweb / vrchat udon)

- <https://github.com/madjin/janus-custom-components/blob/master/media/recordplayer/recordplayer.js>
- <https://github.com/Vard-and-Temmie/Udon-Record-player>

Couple new comments made to PRs

-  [Add OMI_collider](#) #63 (comment)
-  [Adjusts to KHR_audio PR recommendations to split audio out](#) #88 (comment)

↑ 1

0 replies

Category



General

Labels

None yet

2 participants

