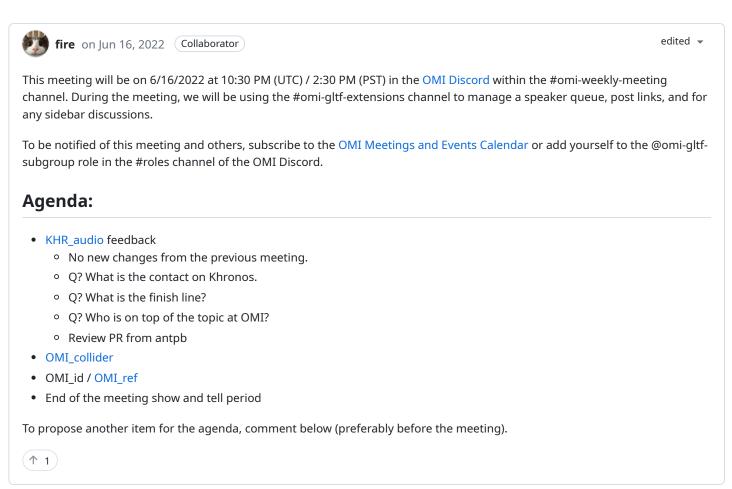


# OMI glTF Working Group Meeting 6/16/2022 #90

fire started this conversation in General





**Oldest** Newest Top



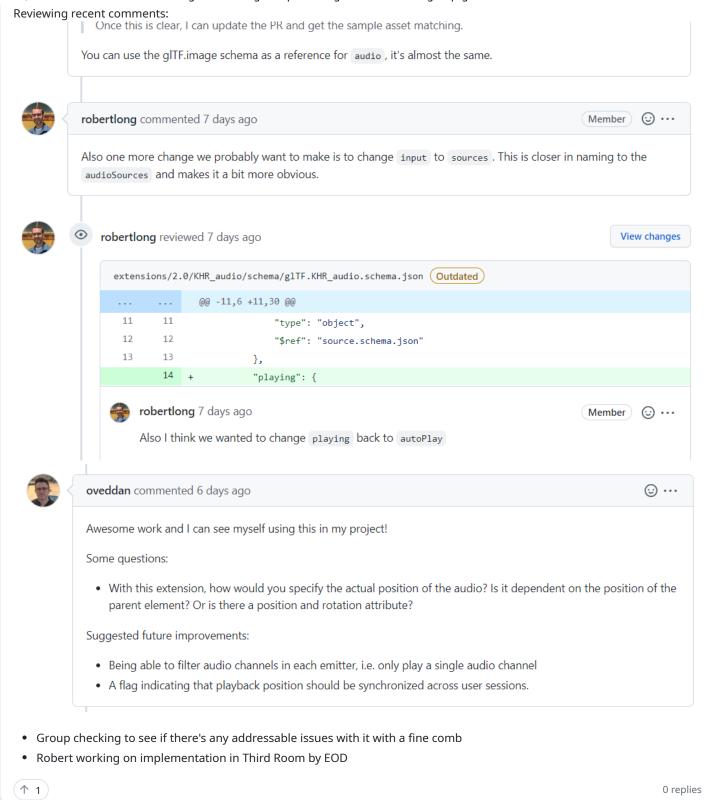
madjin on Jun 16, 2022 (Collaborator)



edited -

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

There's an open PR in our group by antpb to adjust feedback from khronos





```
this.defineProperties({
    sound_id: { type: 'string', set: this.updateSound },
    singleshot: { 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 singleshot?

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 singleshot 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

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  $\rightleftharpoons$ 

in the context of gltf suggestions I'd say, singleshot 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
    singleshot: **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



0 replies

### Category



General

Labels

None yet

2 participants



