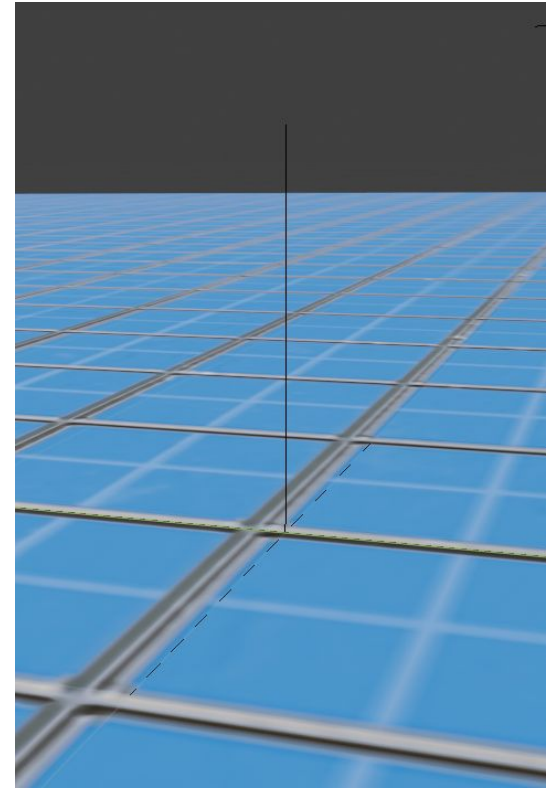
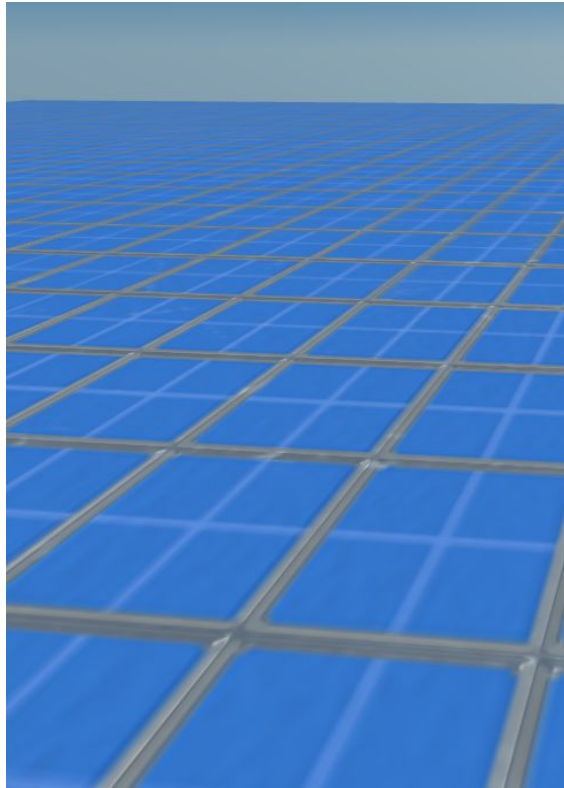


Authoring immersive environments with glTF for multi-user mixed reality web applications

Liv Erickson, Mozilla



Image: 3D models of three robots, representing users, gather around a 3D model of a house on a table in front of them.



Images: A glTF scene that includes a custom component, 'spawn-point', displayed in three clients. They each are visualized differently.

Left to right: Spoke, Hubs, Blender

“I think it's a room with a large window.”



Image: a 3D environment of an empty conference room. The automatic captioning does not provide much information about what is contained in the image, only describing that it is a room with a large window.



Image: a visually busy 3D environment that includes floating text, image text, chat text, a loading cube, a PDF file, a video, five images of cats, a media browser, 2 users represented as robots, and two 3D models of vehicles

Looking Ahead

- Encourage and support research into spatial accessibility structures
- Support and experiment with alternate text components for objects
- Implement application-specific ways to surface room information to a user, such as gaze or mouse-based captioning
- Captioning and audio controls for room audio
- Continue learning and adapting to new information