

CS 148 Final Project Write Up

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Inspiration

Taiko is the art of Japanese drumming. While taiko may have originated in Japan, a distinct flavor of North American taiko has emerged in the past half century. Part of this new wave is the spread of taiko to universities across the United States. In fact, both authors are in Stanford Taiko, the resident taiko ensemble here on campus. With this project, we wished to bring our dream practice studio to life.

Description

The setting is a high rise practice studio in a big city. This practice studio sports floor-to-ceiling windows and a polished hardwood floor. In the middle of it all lies three drums, two medium sized *chu* and one large *odaiko*, poised and ready to play on. Adding to the decor, we have a statement wood screen (because aesthetic) and an accompanying gong (for those moments we just want to be extra dramatic).

Models and Textures

The stand for the large center drum was self-created. The rest of the models were found online through various 3D model resource sites (eg. CGTrader, TurboSquid). The textures were all found online through Google Images and some were edited using Photoshop.

Lights

We configured the lights to represent 1) light from the windows, and 2) studio lights from within the room. To model the natural light, we placed two direction lights pointing away from the windows. For the room lights, we used an area light positioned at the top of the room and another direction light pointing at the scene.

Contributions

The majority of this project was implemented through pair programming, so both creators were present during the entire process. The only subtle differences were that Grace focused more on the modeling (creation of our original model) and materials (changing specular/ambient values) while Kristine focused more on the coding (image post-processing via added saturation) and lighting (positioning, sampling). At the end of the day, however, all decisions were reached by mutual agreement.

Original Assets

Odaiko stand

Room framework

Outside Assets

Taiko Model: <https://archive3d.net/?a=download&id=71919018>

Wooden Screen: <https://www.cgtrader.com/items/238126/download-page>

Window: <https://www.turbosquid.com/3d-models/free-window-3d-model/618624>

Gong: <https://archive3d.net/?a=download&id=3d580f7f>