# 15-400 Milestone 3 Max Slater

https://thenumbat.github.io/15400-s21/

### Changes

No major changes.

### Accomplished

- 1. Added infrastructure for varying and benchmarking different bounding volumes.
- 2. Implemented bounding spheres and oriented bounding boxes in addition to the default AABBs.

#### Milestone

My scheduled milestone for this week was "begin work on GPU implementation" and "explore hardware RT."

I'm a bit behind on this, as I've only now finished the CPU-side investigation of performance bottlenecks and our idea to test new bounding volumes. I will start working on a GPU implementation for the next milestone.

## Surprises

N/A

## Looking Ahead

I'll be discussing how we want to approach making a GPU-efficient version of our library will my collaborators this week.

#### Revisions

Since progress has been slow, I doubt I will end up making the proposed 125% goals. I am still on track for the 100% goals, though. Also, it's not essential to complete the polishing a production-ready library this semester, since the real research work comes before that.

# Resources

We're finally nearly ready to put together a new lab machine with hardware RT.