

CS423-Rust Programming Final Project Proposal

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Project Topic Area: Instrumented biological simulation

Project Name: coral-reef-simulation

Github repository: <https://github.com/arlysswest/coral-reef-simulation>

The repo will have a **README.md** describing the project.

License: MIT + Apache2.0

Project Vision

- Kind of like those gardening games but for coral reef restoration
- Time is discrete

Interactivity(ways they're restoring reef)

- artificial substrates / 3D printed modules
- coral gardening
- Micro-fragmentation
- Removing pollution

Game working against them(dont have to implement them all):

- Pollution
- Invasive species
- Co2 emissions
- Storm or physical damage
- Over fishing

Running Statistics

- Water ph & temperature
- % coral cover
- % Algae cover

Project Concerns

- I need to do research about how I want to structure it and what tools I may need
- I think it would be fun to do some basic visuals so that's something I want to look into

