

Swimmy: a VR Multiplayer Swimming Game

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Swimmy is a VR multiplayer swimming game. A new underwater excavation has been discovered! Players and their friends will dive down and compete against each other to gather as many hidden artifacts for research as they can.

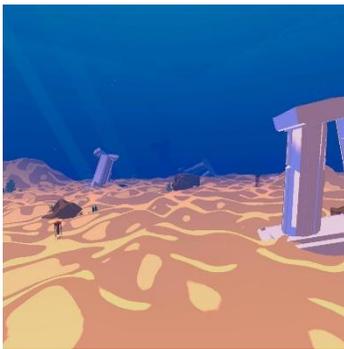


Fig. 1. In-Game ocean environment

I. HEADING 1

Using the controllers, the player can navigate the open ocean in swimming motions. The environment hides pots, lamps, and other artifacts for divers to search for. Collecting and storing these in the equipment bags will increase their scores, which are publicly displayed on a scoreboard. Each player enters a custom name for themselves in the lobby scene, on a boat “above water” before diving into the game.

Swimmy allows up to five players, as of now, and is designed for the Oculus Quest. The Quest’s tether-free nature gives players the freedom to swim and turn in any direction. The custom swimming mechanic allows for creativity in finding the fastest way to move around while minimizing “drag,” as one would in actual water.

With the explorative nature of this game, there is plenty of room for expansion. The upcoming months will be spent polishing and thoroughly testing this prototype with the goal of hosting more players in

rooms, adding additional assets, and developing bonus gameplay mechanics. By further building the tutorial scene, *Swimmy* can incorporate more story elements, such as historical or geographic references, to better immerse players. This additional information will be shared with the player in-game as well, by pop-up labeling notable artifacts or in the form of clues to artifact locations.



Fig. 2. Networking and locomotion testing

II. CONCLUSION

Swimmy provides players a chance to explore and compete in an open environment alongside other players. Key features include a free-swimming locomotion, scavenger system, and player customization. The game is continuously being developed to increase immersion and add variable factors to enjoy over multiple playthroughs.

Full game prototype download link:

<https://austinaw.itch.io/swimmy>

APK to be installed and run directly on Oculus Quest

III. REFERENCES

Designed, modeled, and developed independently under an internship with Light Sail VR.

Tools: Unity, Normcore