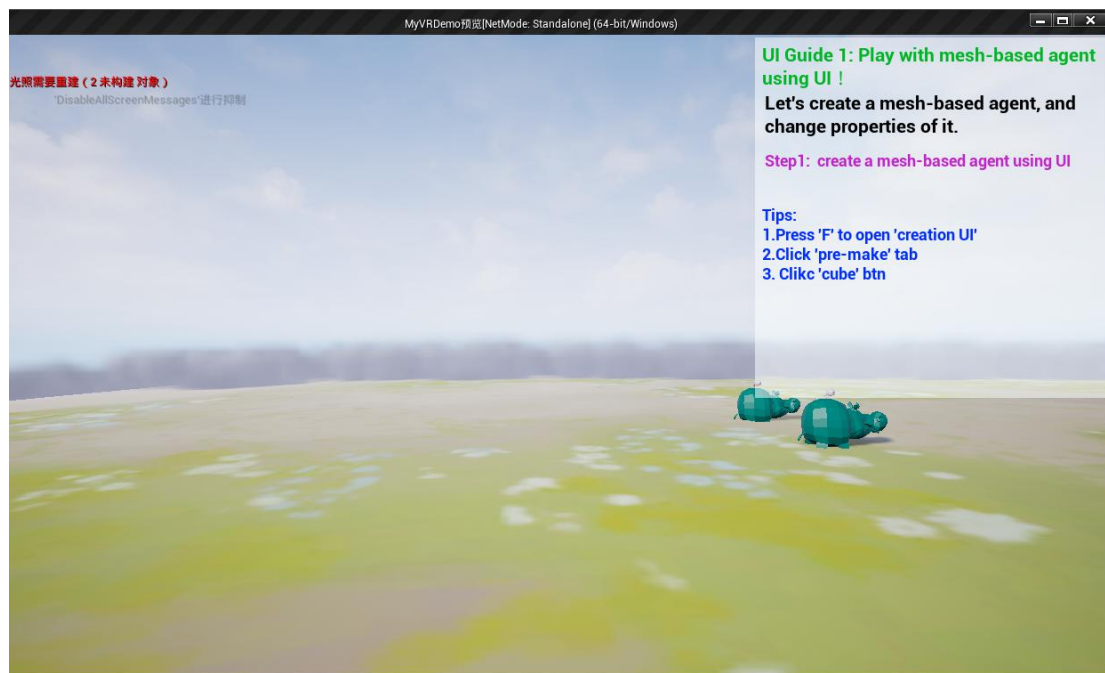**Introduction:**

As its name suggests, live coding programmers/performers allow other people to watch their programming process in real-time through the internet or in a live performance. Most live coding performers combine music, images, and code on screen to create an interactive experience.

Our project means to provide an immersive environment for live coding performers. Without using keyboard as the main input way, now we combine Voice commands and UI(User Interface) system to allow performers to perform in a more embodied fashion.

Here is the screenshot of our project. Players can create things by using UI or Voice input system to decorate the environment.

To allow players get familiar with this system more quickly, we create a task system (or we can say a tutorials) to help participants to learn.

Project Environment and the tutorials.

Study Protocol/Research Methods

Title of Research Study: [Live-coding with voice command]

Purpose of study

This will be an evaluation for our thesis project, a live-coding environment for virtual worlds. We are looking for suggestions on how to improve our project from study participants.

Study protocol

Participants will be sent an email with the opening briefing (below) and three links:

1. A link to the read and sign the informed consent agreement (attached)

2. A link to download the live coding environment used in the study

3. A link to complete a survey after experiencing the live coding environment.

Opening briefing for testers (provided online)

"Hello, and thank you for volunteering to test our project. Before we begin, could you please read and sign this Informed Consent form at [link to IC form]   Thank you!

After signing, please go ahead and download our live-coding environment from [link to live

coding environment] and run it on your computer (Windows only).

After completing the tutorials you find in the live-coding environment, please complete an anonymous survey about your experience at [link to survey].

At no point during your test session, or in the survey after, will any sort of personal and/or identifying information about you be recorded. Please begin playing when you feel ready. If you need IMGD playtesting credit for participating in this study, please email cjiang4@wpi.edu with the subject 'Request for IMGD playtesting certificate'. Your request / email address will not be associated with your survey responses in any way.

Again, thank you for your time and attention!"