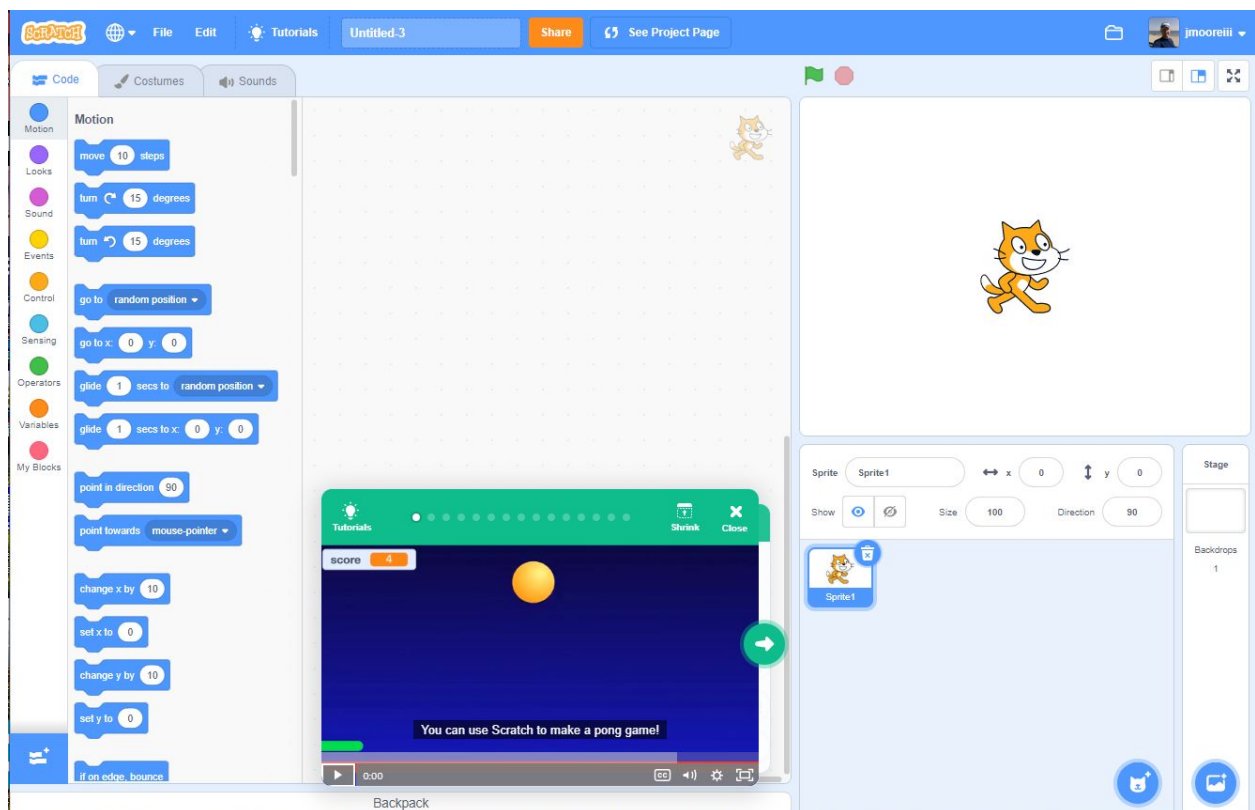# OLSS Online Programming Clubs!

As of now, robotics clubs will not be available. There are no competitions planned in the local area this season.

We're offering online clubs to teach programming for your children. We'll use Google Meet for the kids to share their screens (not video) and their audio.

Depending on interest, we'll have up to 4 clubs.
- Scratch Programming
- Minecraft Modding
- Vex Code VR
- Unity game Programming

Scratch Programming

The students will have an introduction to programming using MIT's Scratch programming. (https://scratch.mit.edu/) This is for any age group, not just for younger students. If we have enough interest, we will have 2 groups, 1 elementary and 1 middle school students.
Scratch is available online for free and the only requirements would be your computer, a web browser, and a microphone and speakers.

Minecraft Modding

Students will learn to create "mods" to Minecraft in a visual programming environment similar to Scratch and then apply them to their own test server at LearnToMod. They will then try them in their own copy of Minecraft.
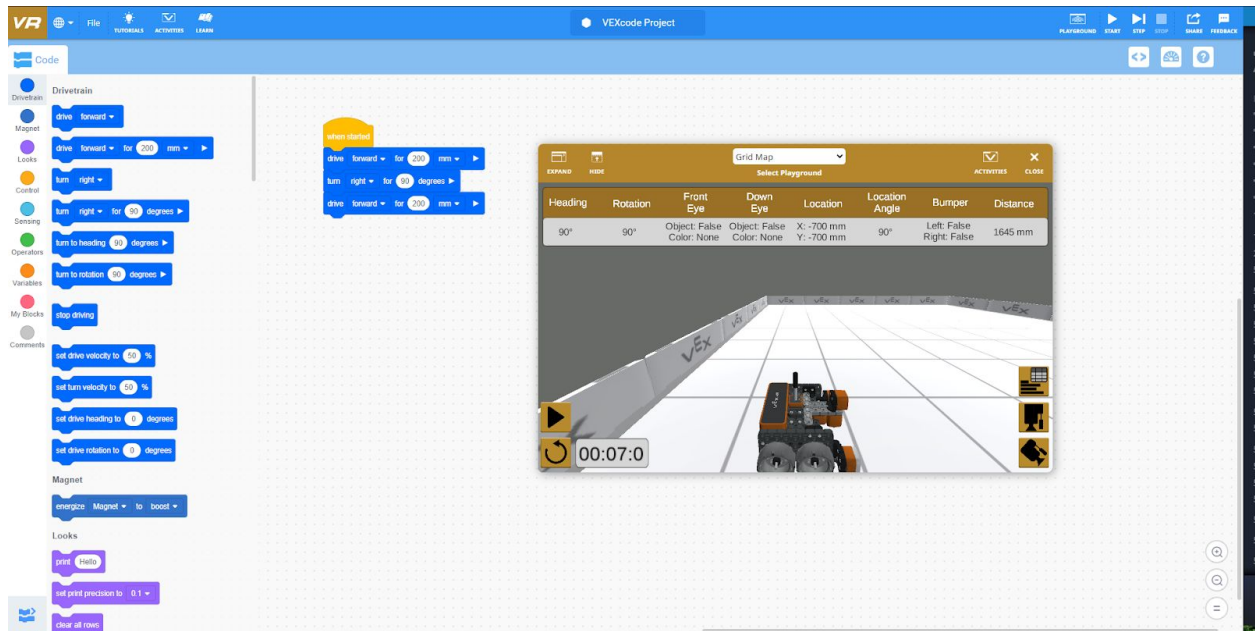
This is more involved and the students will need to be familiar with their computer. We will use an online tool at LearnToMod.com and it will require you to have your own license to Minecraft Java edition.

We will need parents to set up their child's accounts at LearnToMod before the sessions start, so the parent will be responsible to meet prior to the start and get their accounts established.

Requirements:
- Minecraft Java Edition (available to purchase here: https://www.minecraft.net/en-us/get-minecraft)
- Establish a free account at LearnToMod.com in advance
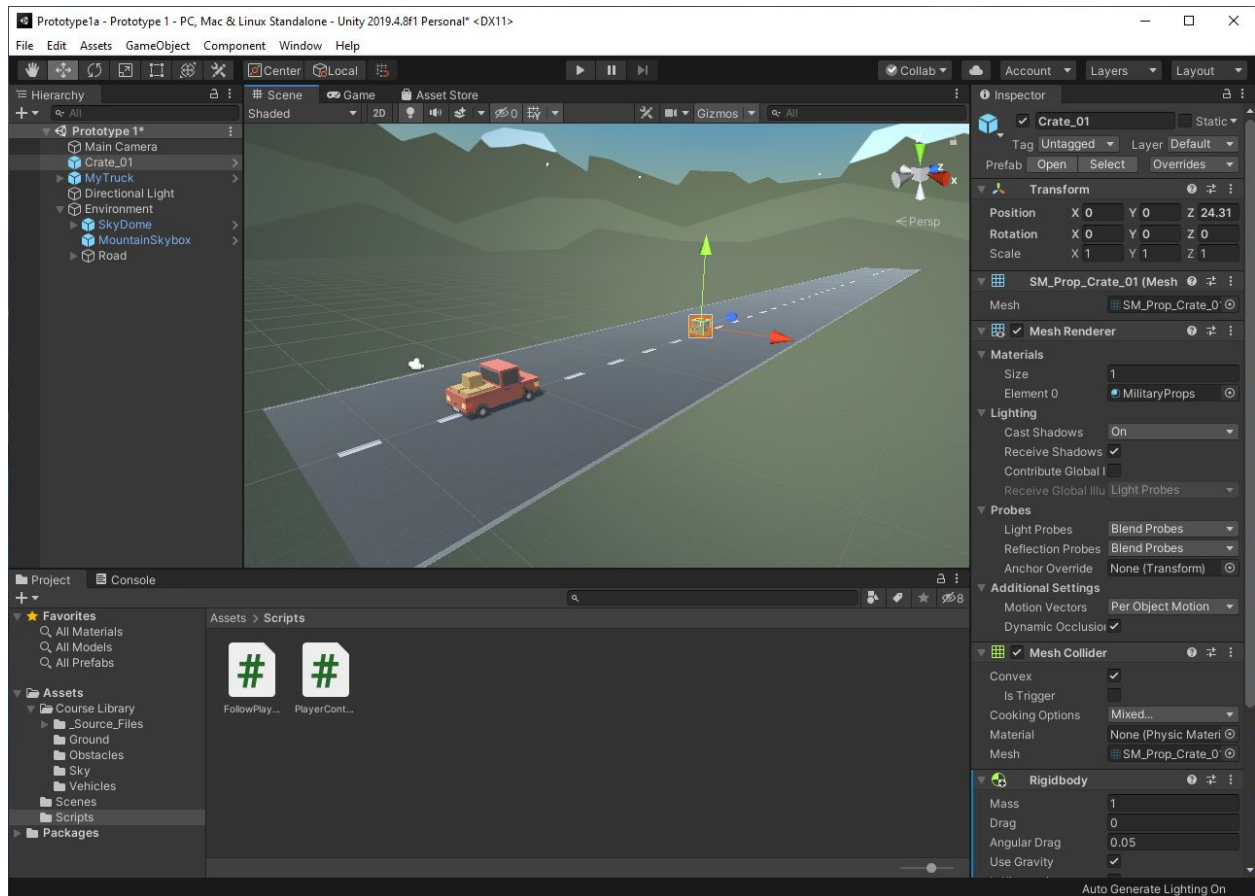- A microphone and speakers on the computer with Minecraft for the meeting

Vex Code VR

Vex code VR is a free online environment from Vex robotics that uses coding similar to Scratch. Students can learn programming concepts and how they are applied to a virtual robot and see the robot in action. Many different challenges are available from mazes, drawing with the robot and moving objects around the playing field. (vr.vex.com)

The only requirements would be your computer, a web browser, and a microphone and speakers.

Unity Game Programming

This is the actual game programming environment from Unity and is for the advanced student that is very familiar with their computer. Unity is a free download and an account will be necessary, preferably set up by the parent.
We will follow Unity's online tutorials to learn graphics creation, manipulation, and scripts in C#. Like the Minecraft club, parents will need to meet prior to the start of the club for account setup and computer setup as Unity is a large download.

If you are interested in any of these programs, please email Jim Moore directly at jmooreiii@gmail.com and let him know your child(s) name, grade, which club you are interested in, and also when your child could meet with the group online. We would like to hold these clubs in the late afternoon or evenings, possibly a few times a week.

Parent volunteers will be needed to sit in on clubs as second adults. If you have any questions, please feel free to email or call Jim.
jmooreiii@gmail.com
443-536-1265 (m)