

August 4, 2016

# Arduino: The Next Frontier for Scratchers

Lesley University STEAM Team MIT Media Lab Scratch Team

### Who are we?

Kreg Hanning - Lesley University/Scratch Team Carmelo Presicce - LLK Graduate Student Ruby Eisenbud - Scratch Team Summer Intern Sue Cusack - Lesley University Jacy Edelman - Lesley University

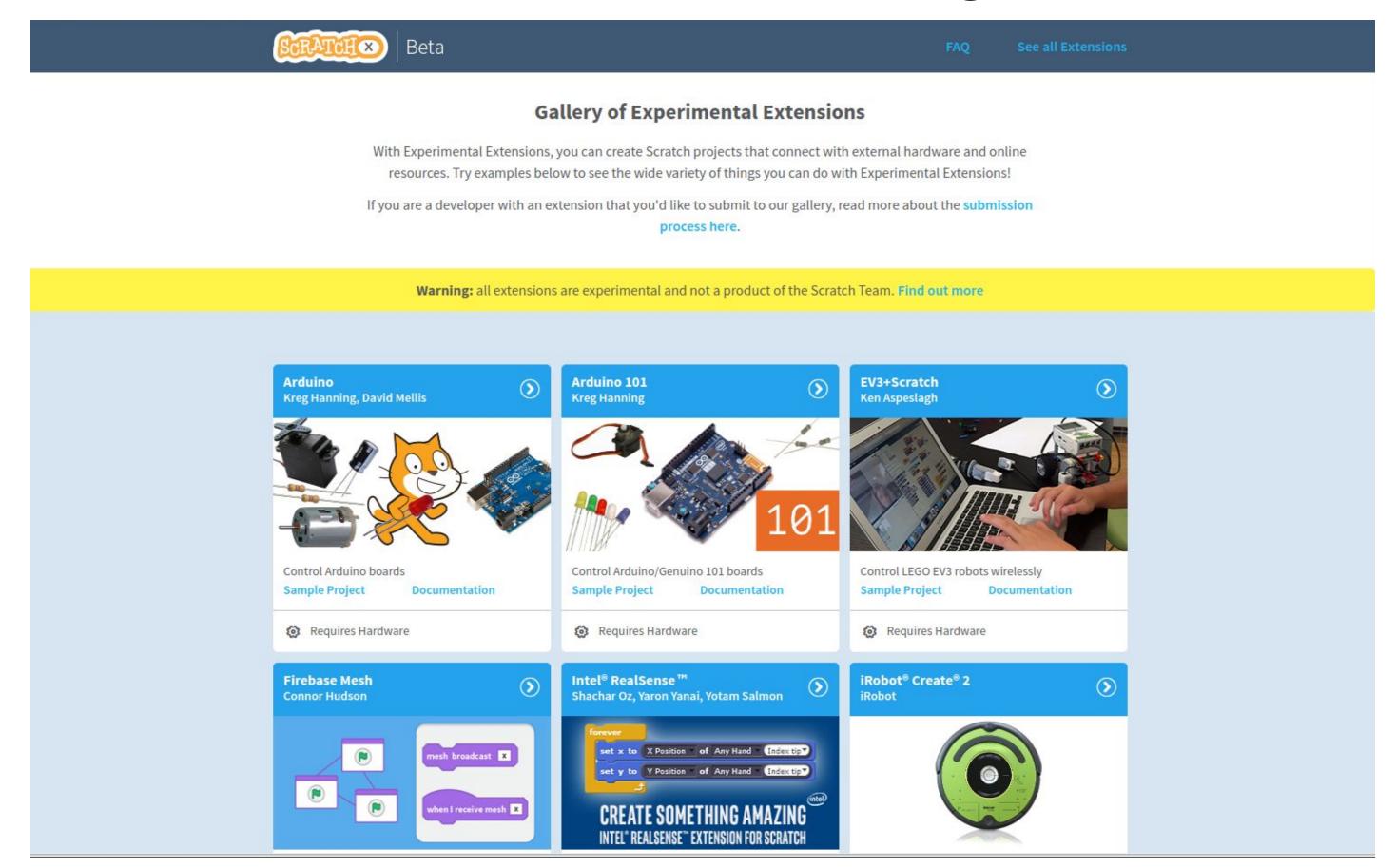
# Agenda

2:00 - 2:05	Introduction to Arduino and ScratchX
2:05 - 2:20	Group activity (Hello, Arduino!)
2:20 - 3:20	Free play activities
3:20 - 3:30	Reflections / Share Out

# What is Arduino?

# ScratchX

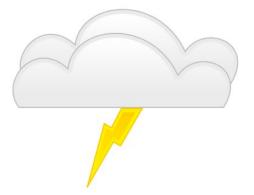
## http://scratchx.org





# Let's Play!

### **LED Cloud**



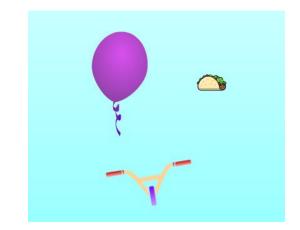
Design and build an LED powered lightning cloud complete with sound effects.

### Magic 8 Ball



Program a Magic 8 ball to respond to shake gestures and add your own phrases.

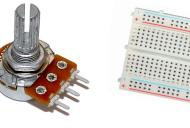
### **Tilt Controller**

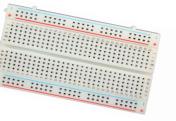


Build a tilt controller to control a flying bicycle Scratch game.

### **Open Exploration**











Check out some advanced Arduino projects and explore more advanced inputs and outputs.