**For tomorrow:**

* Read up on serial interface and how to work with python
* Acquire Arduino data and control intensity of specific color channels
* Work on Synesthesia SoundBoard code to play different sound files
* If SoundBoard works
  + Edit sound files to the correct ones
  + Add a motion sensor to affect the sound based on hand motions (Eg. Edit pitch)
* Figure out different ways of mapping color to sound

**Illuminator**

* Take inventory of LED strips you have
* Figure out how to use map
* Analog read / analog write
* GUI
  + Processing language
* <https://www.arduino.cc/en/Reference/Serial>
* Serial call response
  + In setup
    - Store serial port w/ certain speed of info
    - 9600 bits per second ( can increase up to 20 kB)
    - 300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, or 115200
  + Interface w/ arudino in python w/ pserial package 🡺 read data

**Synesthesia**

* Colorview code
  + Reads info from sensor
  + Converts information from sensor to voltage
  + Transforms voltage to a value [0,1024]
  + Values mapped to a color
* Gamma table / Spectral Luminous Efficiency
  + Definitions?
  + Uses?
  + Applicability to software?