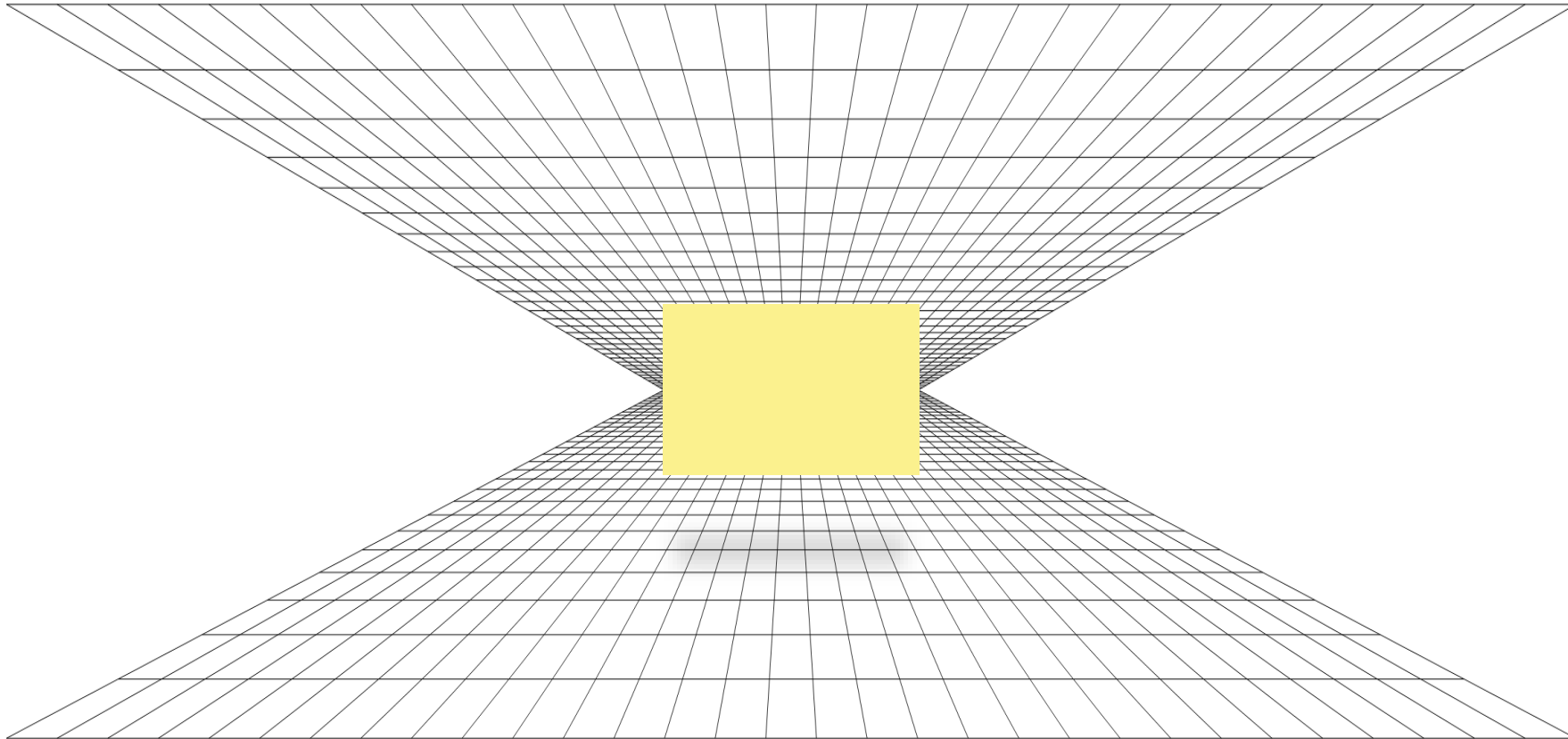


PROJECT AURA



Emmanuel Zambrano
Illinois Institute of Technology

AURA

Noun: the distinctive atmosphere or quality that seems to surround and be generated by a person, thing, or place.

Synonyms: ambience, aspect, atmosphere, feeling

DEVICE

Designed to take any color in the real world and turn it into values that Computers can read.

RGB and HEX.

DEMO

<https://youtu.be/eWTdyTRJyx0>

COLOR & EMOTION

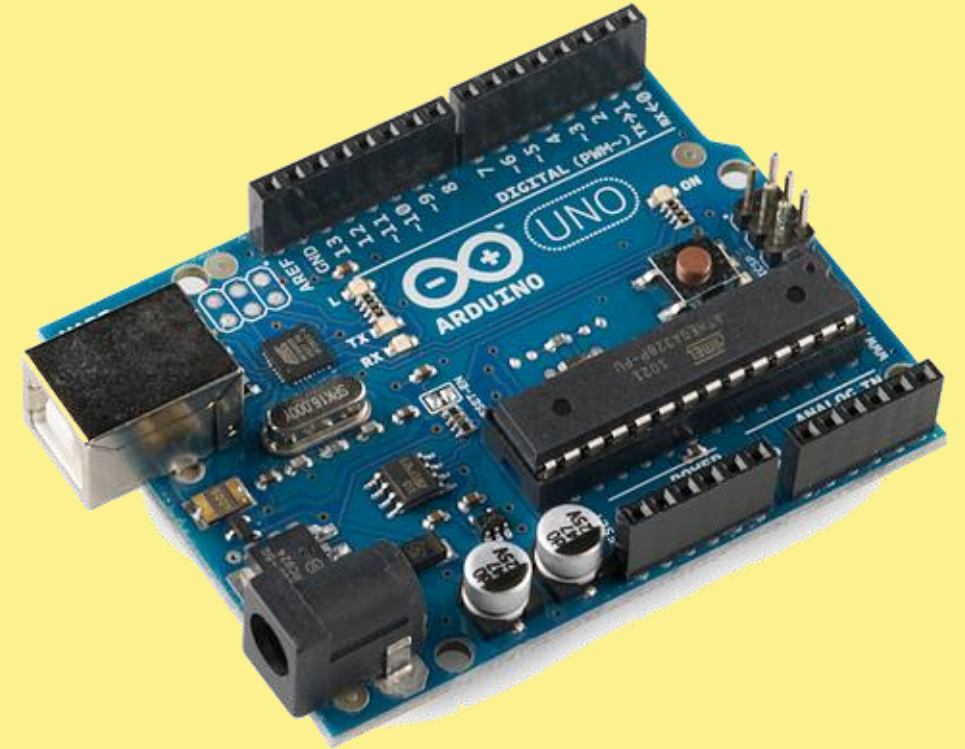
Color Theory- Science behind our emotional connections to colors.

DEVICE

- RGB Color Sensor
- Bluetooth LE 4.0 nrf8001 Breakout
- Arduino Uno microcontroller
- Jumpers

ARDUINO UNO

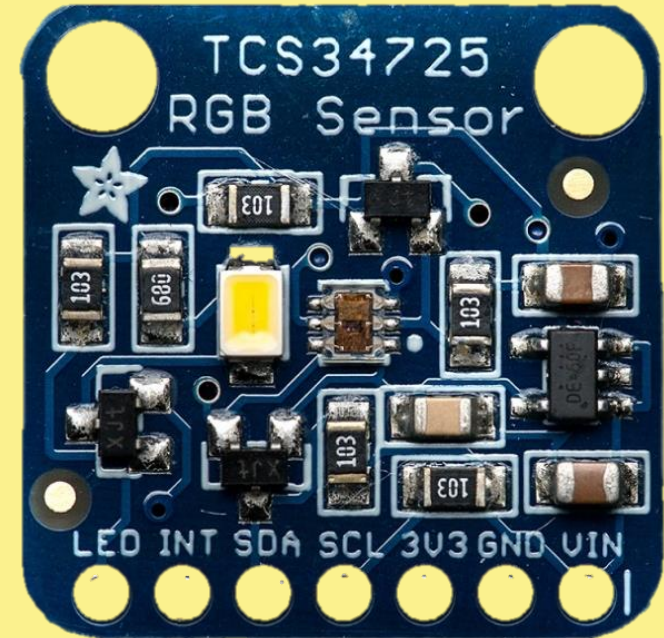
- Microcontroller
- Open Source
- IDE to create software



DATA COLLECTION

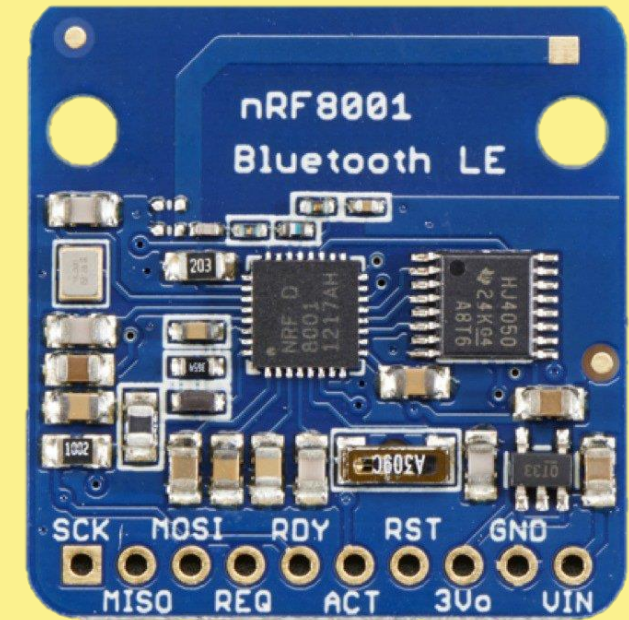
RGB Color Sensor

IR Blocking



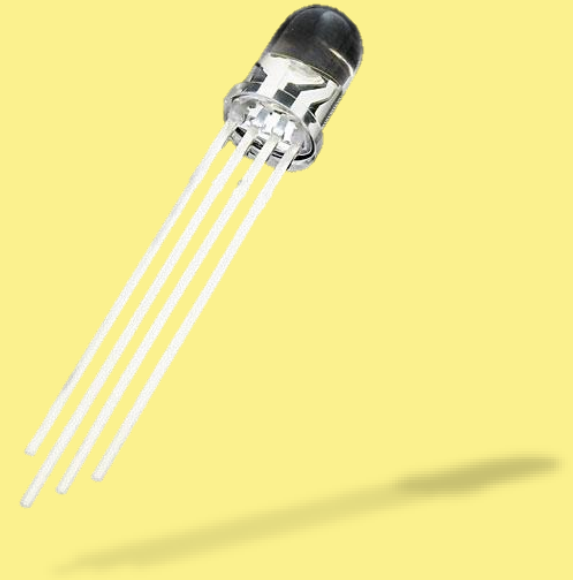
DATA TRANSMISSION

Bluetooth LE nrf8001 Breakout
UART



DATA PRESENTATION

- Mobile Application- BlueFruit
- RGB LED



CONCLUSION

Find Project documents on GitHub

<https://github.com/illinoistech-itm/aura>