Introduction to Physical Computing

13/1/2020

Schedule

- Offroading! Going away from the Arduino Projects Book
  - Live Coding
  - Ultrasonic Sensors
  - LED Matrices
  - TFT LCD Screens

Ultrasonic Sensor

Make a doorbell using the ultrasonic sensor

https://maker.pro/arduino/projects/arduino-door-alarm-using-ultrasonic-sensor

LED Matrix

Connect the LED Matrix to the Arduino

Follow this guide:
https://learn.adafruit.com/adafruit-led-backpack/1-2-8x8-matrix

Experiment! Go through the example code and make sure you understand it.

LED Matrix

Challenge:

Make your own graphics

Snake

- Reverse-engineer the Nokia Snake game
  - What components do you need?
  - Break your program down into seperate

TFT LCD Screen

Follow this setup guide:

https://learn.adafruit.com/2-2-tft-display

TFT LCD Screen

- Design your own graphics
- Make your own bmp image and display it on the screen

Goodbye for now!

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