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/*
Arduino Course, Main_Track, Lesson 8: Analog Inputs
 Shows a pot can control a red, yellow and green LED, with more
 LEDs lit the "higher" a pot is set.
 This inspired by the Adafruit Arduino Lesson 8, the main
 thread.
 $Id: arduino_lesson_08b_analog_input_APL_VERSION.ino,v 1.12 2014/04/05
17:18:18 gralimj1 Exp gralimj1 $
 * /
const int potPin = 0;
const int redPin = 8;
const int yellowPin = 6;
const int greenPin = 4;
const float potMax = 1023.0; // The largest value possible
const float numLEDs = 3.0; // How many LEDs we have.
const int stepSize = int(potMax/(numLEDs + 1.0));
void setup()
 pinMode(redPin, OUTPUT);
  pinMode(yellowPin, OUTPUT);
 pinMode(greenPin, OUTPUT);
  all_off;
void loop()
  int reading = analogRead(potPin);
  if (reading >= stepSize) {
    digitalWrite(greenPin,HIGH);
    if (reading >= (stepSize<<1)) {</pre>
      digitalWrite(yellowPin,HIGH);
      if (reading >= (3*stepSize)) {
        digitalWrite(redPin,HIGH);
    }
  delay (300);
  all_off ();
void all_off () {
  digitalWrite(redPin, LOW);
  digitalWrite(yellowPin, LOW);
  digitalWrite(greenPin, LOW);
}
```