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| **Original TinkerCAD Code** | **Minimal Enhancements to Support** [**the ACES Video**](https://www.youtube.com/watch?v=_gefWoisL54) |
| #include <IRremote.h>  //Define Pins  int redLed = 5;  int yellowLed = 4;  int greenLed = 3;  int blueLed = 2;  int RECV\_PIN = 11;  //IR Library stuff  **IRrecv** irrecv(RECV\_PIN);  **decode\_results** results;  void setup() {   //Set Led Pins   pinMode(redLed, OUTPUT);   pinMode(yellowLed, OUTPUT);   pinMode(greenLed, OUTPUT);   pinMode(blueLed, OUTPUT);      //Enable serial usage and IR signal in  **Serial**.begin(9600);  **Serial**.println("Enabling IRin");   irrecv.enableIRIn();  **Serial**.println("Enabled IRin");  }  void loop() {   if (irrecv.decode(&results)) {//irrecv.decode(&results) returns true if anything is recieved, and stores info in varible results     unsigned int value = results.value; //Get the value of results as an unsigned int, so we can use switch case  **Serial**.println(value);     switch (value) {       case 2295:         digitalWrite(redLed, HIGH);         delay(500);         digitalWrite(redLed, LOW);         break;         case 34935:         digitalWrite(yellowLed, HIGH);         delay(500);         digitalWrite(yellowLed, LOW);         break;         case 18615:         digitalWrite(greenLed, HIGH);         delay(500);         digitalWrite(greenLed, LOW);         break;         case 10455:         digitalWrite(blueLed, HIGH);         delay(500);         digitalWrite(blueLed, LOW);     }       irrecv.resume(); // Receive the next value   }  } | #include <IRremote.h>  //Define Pins  int redLed = 5;  int yellowLed = 4;  int greenLed = 3;  int blueLed = 2;  int RECV\_PIN = 11;      //TSOP2138: OUT  int VCC = 10;           //TSOP2138: 5V  int GND = 9;            //TSOP2138: GND  //IR Library stuff  **IRrecv** irrecv(RECV\_PIN);  **decode\_results** results;  void setup() {   //Set Led Pins   pinMode(redLed, OUTPUT);   pinMode(yellowLed, OUTPUT);   digitalWrite(yellowLed,LOW);   pinMode(greenLed, OUTPUT);   pinMode(blueLed, OUTPUT);   pinMode(VCC,OUTPUT);   pinMode(GND,OUTPUT);   digitalWrite(VCC,HIGH);   digitalWrite(GND,LOW);     //Enable serial usage and IR signal in  **Serial**.begin(9600);  **Serial**.println("Enabling IRin");   irrecv.enableIRIn();  **Serial**.println("Enabled IRin");  }  void loop() {   if (irrecv.decode(&results)) {//irrecv.decode(&results) returns true if anything is recieved, and stores info in varible results     unsigned int value = results.value; //Get the value of results as an unsigned int, so we can use switch case  **Serial**.println(value);     switch (value) {       case 32895 /\*2295\*/:         digitalWrite(redLed, HIGH);         delay(500);         digitalWrite(redLed, LOW);         break;    /\*     case 34935:         digitalWrite(yellowLed, HIGH);         delay(500);         digitalWrite(yellowLed, LOW);         break;  \*/       case 16575/\*18615\*/:         digitalWrite(greenLed, HIGH);         delay(500);         digitalWrite(greenLed, LOW);         break;         case 49215 /\*10455\*/:         digitalWrite(blueLed, HIGH);         delay(500);         digitalWrite(blueLed, LOW);     }     irrecv.resume(); // Receive the next value   }  } |