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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 Pinsint 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 Pinsint redLed = 5;int yellowLed = 4;int greenLed = 3;int blueLed = 2;int RECV\_PIN = 11;      //TSOP2138: OUTint VCC = 10;           //TSOP2138: 5Vint 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  }} |