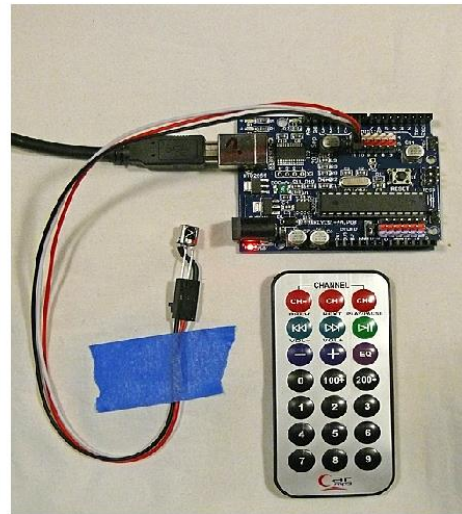
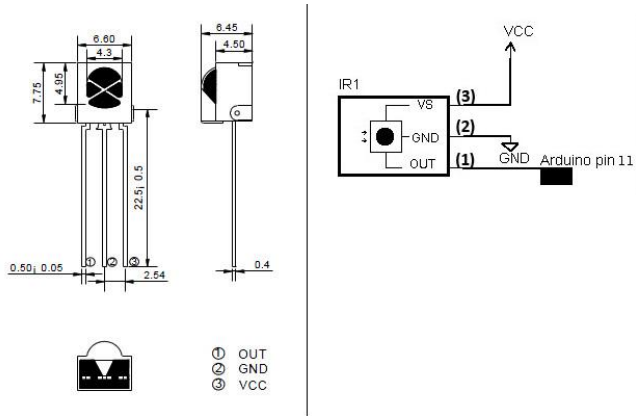




# Dalkey Dojo

## Infra-Red Remote control Project



## Description

- This sketch reads IR remote key codes sent from IR remote to IR remote receiver and sent to
- pin 11 of arduino. The key codes are then sent to the Serial Monitor and printed in hexadecimal format.
- Switch/Case is then used to detect which key has been pressed from the key code received.
- The key symbol is then printed on serial monitor after the key code.
- The IRremote.h library found here: <http://github.com/shirriff/Arduino-IRremote>
- Must be put in the ARDUINO/LIBRARIES folder.
- NB. IF A DIFFERENT IR REMOTE IS USED KEY CODES MAY VARY.

## Code

```
#include <IRremote.h>    //include IRremote.h library.
int IRreceiverPin = 11;  //IR receiver connected to pin 11.
IRrecv irrecv(IRreceiverPin); //set pin for IRremote.h library.
decode_results results;  //buffer to store key code results in.

void setup()
{
  Serial.begin(9600);    //start serial monitor.
  irrecv.enableIRIn();   // start the IR receiver.
}

void loop()
{
  if (irrecv.decode(&results))    //if key code available put
  {                                //the value in results buffer.
    Serial.print("  IR REMOTE KEY CODE : ");
    Serial.print(results.value, HEX); //print value of key code.
    Serial.print(" hex   =   ");

    switch(results.value)          //set value for CASE to match.
    {
      case 0xFFA25D: //if case is IR remote ON/OFF button.
        Serial.println("ON/OFF button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF629D: //if case is IR remote MODE button.
        Serial.println("MODE button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFFE21D: //if case is IR remote MUTE button.
        Serial.println("MUTE button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF22DD: //if case is IR remote PLAY/PAUSE button.
        Serial.println("PLAY/PAUSE button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF02FD: //if case is IR remote RWD button.
        Serial.println("REWIND button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFFC23D: //if case is IR remote FFD button.
        Serial.println("FAST FOWARD button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFFE01F: //if case is IR remote EQ button.
        Serial.println("EQ button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFFA857: //if case is IR remote - button.
        Serial.println("'-' button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF906F: //if case is IR remote + button.
        Serial.println("'+' button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF6897: //if case is IR remote 0 button.
        Serial.println("'0' button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF9867: //if case is IR remote SWAP button.
        Serial.println("SWAP button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFFB04F: //if case is IR remote U/SD button.
        Serial.println("U/SD button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF30CF: //if case is IR remote 1 button.
        Serial.println("'1' button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF18E7: //if case is IR remote 2 button.
        Serial.println("'2' button pressed."); //print key symbol.
        break; //leave SWITCH/CASE function.

      case 0xFF7A85: //if case is IR remote 3 button.
```

```

Serial.println("'3' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFF10EF: //if case is IR remote 4 button.
Serial.println("'4' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFF38C7: //if case is IR remote 5 button.
Serial.println("'5' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFF5AA5: //if case is IR remote 6 button.
Serial.println("'6' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFF42BD: //if case is IR remote 7 button.
Serial.println("'7' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFF4AB5: //if case is IR remote 8 button.
Serial.println("'8' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFF52AD: //if case is IR remote 9 button.
Serial.println("'9' button pressed."); //print key symbol.
break; //leave SWITCH/CASE function.

case 0xFFFFFFFF: //if case is IR remote REPEAT OF LAST button.
Serial.println("....last button repeated!"); //print key symbol.
break; //leave SWITCH/CASE function.

default: //if case is none of the above print a ?
Serial.println("?");
}
delay(150);
irrecv.resume(); //reset to receive the next key code.
}
}

```