



# Arduino Infrared Remote Tutorial

by astrodan3 (/member/astrodan3/) in electronics (/explore/category/technology/channel/electronics/)

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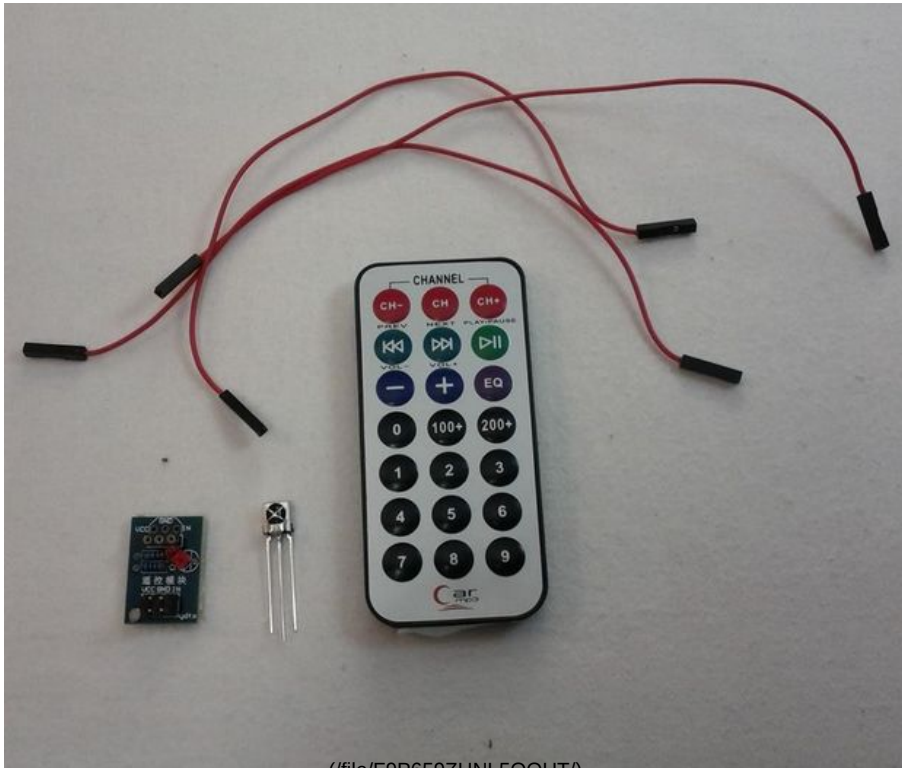
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astrodan3 (/member/astrodan3/)

astrodan (/http://www.2manyprojects.net/)

(/member/astrodan3/)

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**Bio:** I am a full time software engineer and enjoy working on various projects in my spare time, especially Arduino, electronics, 3D printing and woodworking.

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## Related

Record Infrared Codes of Any Remote Control Unit for Usage with Linux Infrared Remote... (/id/Record-

It is really easy to control an Arduino using an infrared remote. There is one particular remote that is available from multiple sources and is really quite cheap, they look and operate in a very similar way.

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 (/id/Arduino-Infrared-Remote-tutorial/)

7 Steps


NEOMART Raspberry Pi HX1838 Infrared Remote Control Ir Receiver Module DIY Kit. Amazon ([http://www.amazon.com/NEOMART-Raspberry-Infrared-Control-Receiver/dp/B00CW8WUGA/ref=sr\\_1\\_1?ie=UTF8&qid=1383669519&sr=8-1&keywords=infrared+remote+raspberry+pi](http://www.amazon.com/NEOMART-Raspberry-Infrared-Control-Receiver/dp/B00CW8WUGA/ref=sr_1_1?ie=UTF8&qid=1383669519&sr=8-1&keywords=infrared+remote+raspberry+pi))

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KIT,IR REMOTE,IR RECIVER,ARDUI,COMPATIBLE Jameco ([http://www.jameco.com/webapp/wcs/stores/servlet/Product\\_10001\\_10001\\_2152315\\_-1](http://www.jameco.com/webapp/wcs/stores/servlet/Product_10001_10001_2152315_-1))

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Reuse Unwanted Infrared Remote Control to Launch Graphical Application in Raspberry P... (/id/Reuse-Unwanted-Remote-Control-to-Launch-Graphical-Application-in-Raspberry-Pi/)

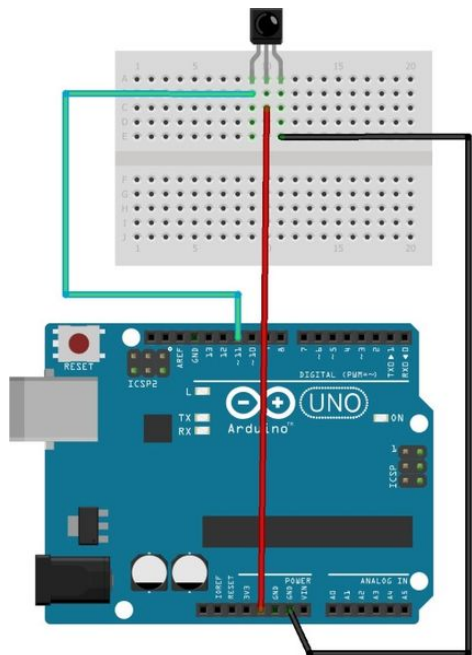


Use Raspberry Pi To Test Your Infrared Remote Control (/id/Use-Raspberry-Pi-To-Test-Your-Remote-Control/)

The problem is that documentation seems to be scarce for these particular remotes. Here is how I figured out how to use them.

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## Step 1: Assemble Circuit



<http://fritzing.org/projects/Arduino-IR-Remote-Control>



<http://fritzing.org/projects/Arduino-IR-Remote-Control>

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you can find the Arduino for this (used a Uno 3 but any Arduino should work). First wire up the infrared receiver that came with your kit. There are 3 wires, PWR, GND, and SIG, I used port 11 for SIG. Note! Some readers have reported that their sensor has different wiring, double check it yourself.

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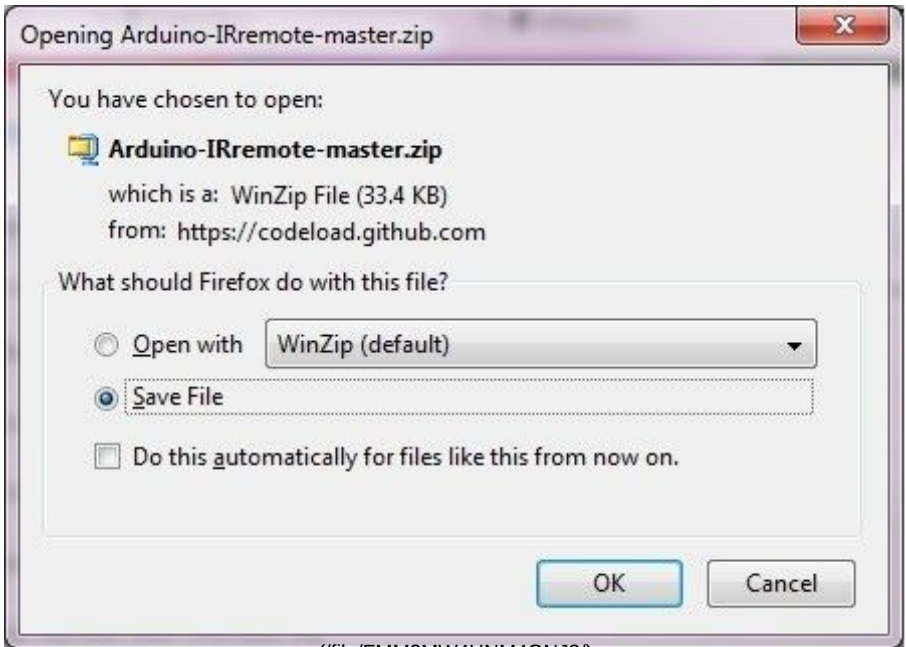
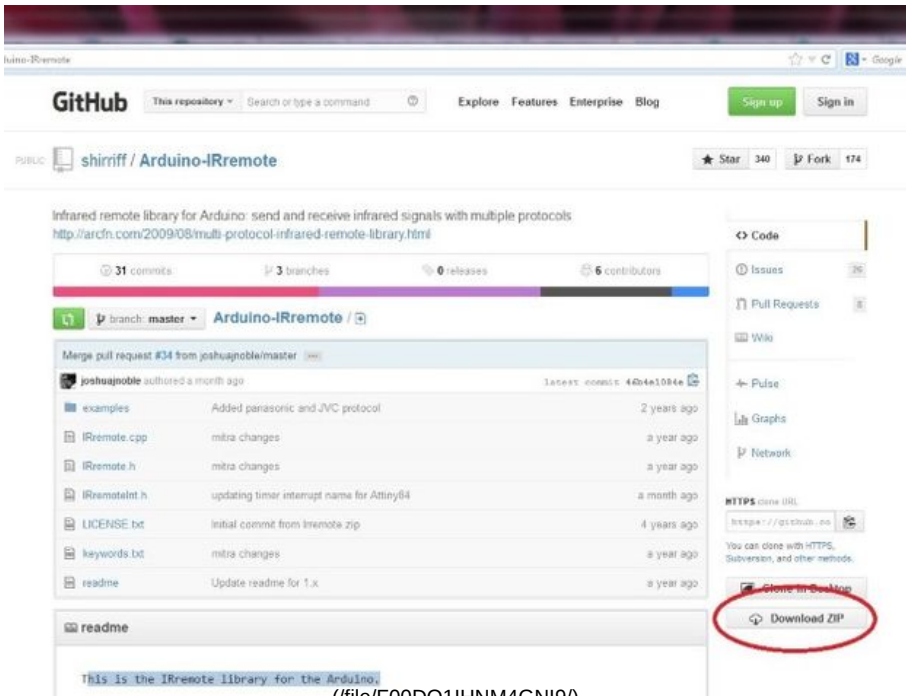
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## Step 2: Download IR Library



In order to reverse engineer the remote and obtain the codes for each button we are going to need to download and install the following library.  
astrodan3 (/member/astrodan3/) in electronics (/explore/category/technology/channel/electronics/)

<https://github.com/shirriff/Arduino-IRremote>  
Download (http://https://github.com/shirriff/Arduino-IRremote/) (/id/Arduino-Infrared-Remote-tutorial/)

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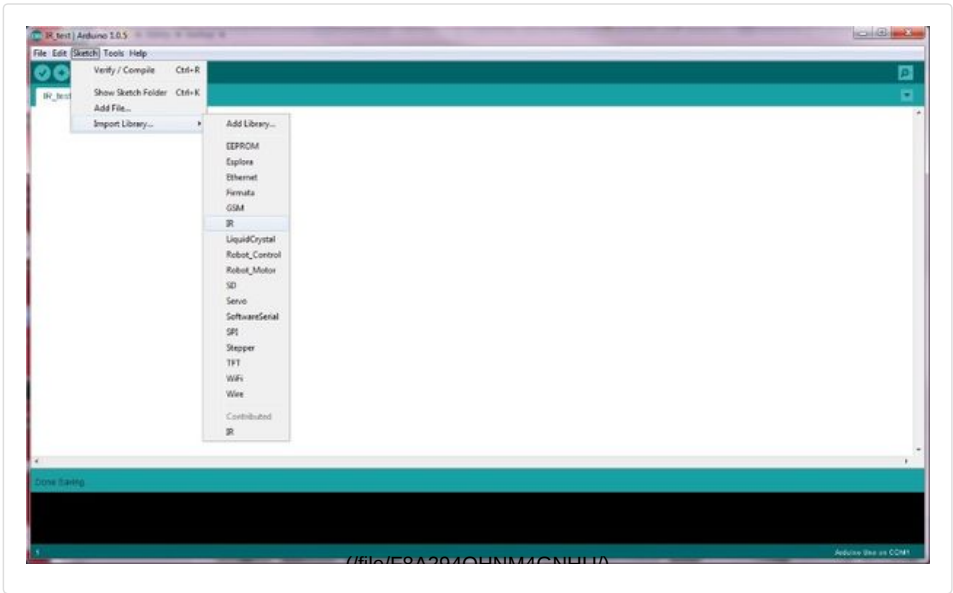
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Extract the file in your libraries directory. e.g. ( C:\electronics\arduino-1.0.5\libraries )  
note: I had to rename the library because the name was too long, I just renamed it to IR.

### Step 3: Add Library to Sketch



With the IR folder ( or whatever you named it) now in your libraries directory, we can import it into a new sketch.

Start a new sketch and the Click

***Sketch->Import Library->IR.***

### Step 4: Paste Code and Compile

Paste the following code into the new sketch. Then verify it compiles.

```
#include <IRremote.h>
```

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by [astrodan3](#) ([member/astrodan3](#)) in [electronics](#) (/explore/category/technology/channel/electronics/)

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(/id/Arduino-Infrared-Remote-tutorial/)

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**void setup()**

{

**Serial**.begin(9600);

irrecv.enableIRIn(); // Start the receiver

}

**void loop()**

{

if (irrecv.decode(&results))

{

**Serial**.println(results.value, HEX);

irrecv.resume(); // Receive the next value

}

}

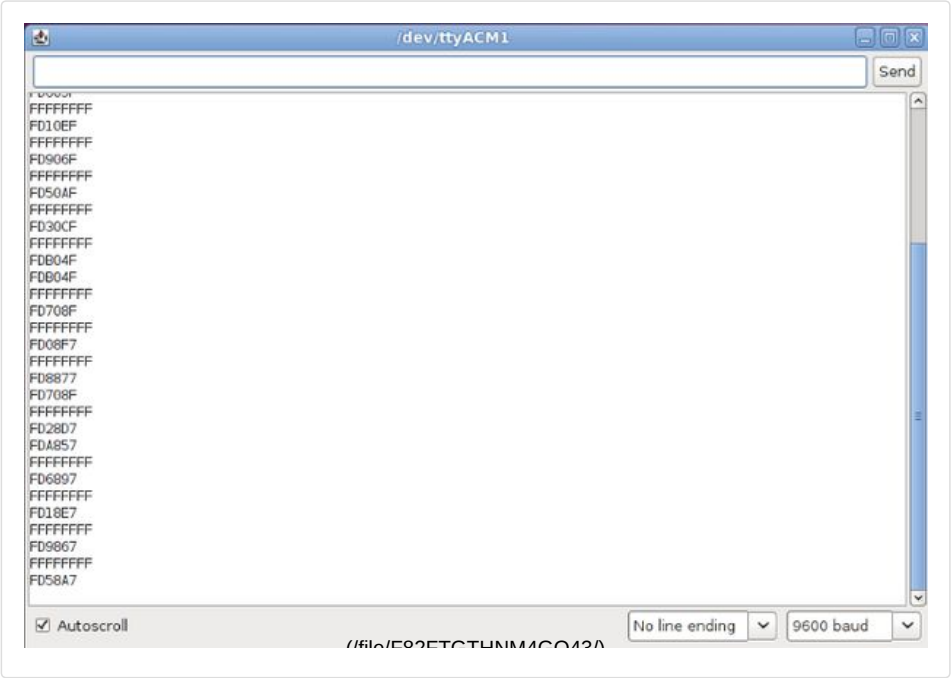
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## Step 5: Open the Serial Monitor



Connect the Arduino to your computer using the usb port, then upload the sketch. Open up the Serial Monitor, get the remote and press the buttons. Some hex codes should appear on the Serial Monitor.

## Step 6: Record Button Codes



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Here are the codes that I got for the white remote. FFFFFFFF is a repeat command, you'll get a stream of them if you hold down a button.


PWR	FF629D
CH	FFE21D
<<	FF22DD
>	FFC23D
>>	FF02FD
-	FFE01F
Plus	FFA857
EQ	FF906F
0	FF6897
100	FF9867
200	FFB04F
1	FF30CF
2	FF18E7
3	FF7A85
4	FF10EF
5	FF38C7

9FF52AD

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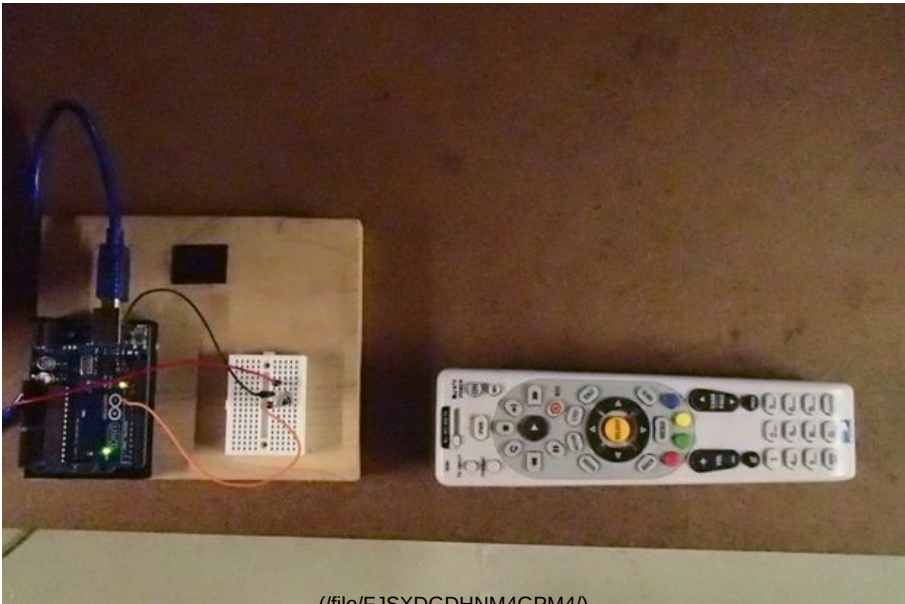
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and here are the codes I got from the black remote.

PWR	FD00FF
VOL	FD807F
FUNC/STOP	FD40BF
<<	FD20DF
>	FDA05F
>>	FD609F
DOWN	FD10EF
VOL	FD906F
UP	FD50AF
0	FD30CF
EQ	FDB04F
ST/REPT	FD708F
1	FD08F7
2	FD8877
3	FD48B7
4	FD28D7
5	FDA857
6	FD6897
7	FD18E7
8	FD9867
9	FD58A7


Step 7: Works on Any Remote!



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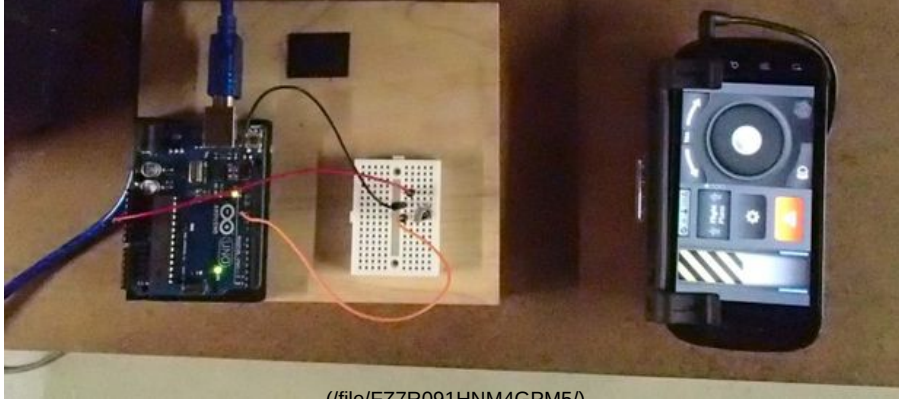


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Now go grab a bunch of remotes from around the house, and give those a try! I got a direct-tv remote and the smartphone pod/remote for a Helo TC ([http://www.amazon.com/Griffin-Technology-GC30006-Helo-Helicopter/dp/B005IENMZS/ref=sr\\_1\\_1?ie=UTF8&qid=1383669885&sr=8-1&keywords=helo TC](http://www.amazon.com/Griffin-Technology-GC30006-Helo-Helicopter/dp/B005IENMZS/ref=sr_1_1?ie=UTF8&qid=1383669885&sr=8-1&keywords=helo+TC)) remote controlled helicopter. This circuit showed the code for both of these remotes.

Here is the project that inspired me to write this up!


<http://2manyprojects.net/arduino-remote-control/>  
(<http://2manyprojects.net/arduino-remote-control/>)

## Comments



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Please be positive and constructive.

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nadia95ab (/member/nadia95ab/)

2017-07-22

Reply

hi

all i'm getting is FFFFFFFF

it doesn't change when i press other buttons

i don't know what the problem is

help plz

عمرج (/member/%D8%B9%D9%85%D8%B1%D8%AC2/)

2017-07-18

Reply

I found this error plz help :

C:\Program Files

(x86)\Arduino\libraries\RobotIRremote\src\IRremoteTools.cpp:5:16: error:  
'TKD2' was not declared in this scope

int RECV\_PIN = TKD2; // the pin the IR receiver is connected to



^

Arduinoinfraredremotetutorial

Multiple libraries were found for "IRremote.h"  
astrodan3 (/member/astrodan3/) in electronics (/explore/category/technology/channel/electronics/)

Used: C:\Program Files (x86)\Arduino\libraries\RobotIRremote  
Download (/id/Arduino-Infrared-Remote-tutorial/) 7 Steps  
Not used: C:\Users\umer\Documents\Arduino\libraries\Arduino-IRremote-master

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exit status 1

Error compiling for board Arduino Nano.

desyanDD (/member/desyanDD/) ▶ desyanDD (/member/<<replyAuthor>>)

2017-07-19

Reply

Delete your folder RobotIRremote in arduino libraries.

then don't forget to include <IRremote.h> in your code. or go to Sketch > include library > add .ZIP library >> and choose your zip file of IR library that you've downloaded

BriceL1 (/member/BriceL1/)

2016-04-29

Reply

I'm getting a compiling error: 'TKD2 was not declared in this scope'. Anyone know how to fix this? Thanks

desyanDD (/member/desyanDD/) ▶ desyanDD (/member/<<replyAuthor>>)

2017-07-19

Reply

Don't forget to include <IRremote.h>

or

Sketch > include library > IR

fanche (/member/fanche/) ▶ fanche (/member/<<replyAuthor>>)

2016-07-14

Reply

How did you solve that problem, because I encounter this

Thanks

andthebandplaydon (/member/andthebandplaydon/)

2017-06-01

Reply

In my case, using HEX to return the values from the remote always caused an error. If the same ever happens to anyone reading this, use OCT or DEC instead of HEX. These return values containing only digits, but are almost equally useful :)

thanushg (/member/thanushg/)

2017-04-21

Reply

hi there... i need 2 noe.. is there any way we can send or display temperature from the temp sensor in arduino at the lcd of a ir remote control which also has ir receiver ... can v send commands for the remote to display some info collected by arduino??? USING IR ONLY !!

BenVink (/member/BenVink/)

2016-11-16

Reply

Wow great tutorial.

I have one question, do somebody know how it's possible that i get only numbers, like 808, 26, 7 and i dont get hex codes.

AndrewW360 (/member/AndrewW360/) ▶ AndrewW360 (/member/<<replyAuthor>>)

2017-04-12

Reply

In the Serial.println bit of code, just take away "HEX."

# Arduino Infrared Remote Tutorial

astrodan3 (member/astrodan3) in Electronics (/explore/category/technology/channel/electronics) 2015-12-27 8

OK I have got this remote and it is the king of weird codes. Heres what I get when a press the power button and hold it for sometime-

- C722B335
- 8651F175
- D440F4BA
- 673D41A
- D440F4BA
- 673D41A
- C722B335
- 673D41A
- C722B335
- 673D41A
- D440F4BA
- 673D41A
- C722B335
- 673D41A
- Heres what i get when I press it shortly so that i get only one reading per press-
- D440F4BA
- EDB7BF84
- C722B335
- 7B33B312
- C722B335
- EDB7BF84
- D440F4BA
- EDB7BF84
- C722B335
- 8651F175
- C722B335
- EDB7BF84
- D440F4BA
- EDB7BF84
- C722B335
- EDB7BF84
- C722B335
- F8D5FDE7
- D440F4BA
- EDB7BF84

I have previously cloned Sony, Samsung and LG remotes, but this DTH remote is a b\*\*ch. The company isn't international and I live in India, so I can't find a module for it. Any help would be welcome.

Thanks

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YES. I also at times get these codes. I dont understand WHY. sometimes i

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**AndrewW360 (/member/AndrewW360/)** ▶ AndrewW360 (/member/<<replyAuthor>>) 2017-04-12 

Reply

I know why... I did some experimenting and I realised that you have to point the remote at a close range, and it also has to be level - I mean, at the same position. It gives the same result if you press the button at the same position.

**PabloS84 (/member/PabloS84/)** ▶ PabloS84 (/member/<<replyAuthor>>) 2016-10-31 

Reply

I was also having this issue, I however realised it was because of the batteries in the remote were dying. Swapped them for new ones and they now detect a steady hex!

**Udon (/member/Udon/)** ▶ Udon (/member/<<replyAuthor>>) 2016-08-06 

Reply

Don't want to resurrect a dead horse and then beat him - this post is a bit old.

But my ten cents....

.....is that maybe the codes ARE actually the same on each press, but perhaps the arduino gets lost in the the bits and doesn't catch where start and end is. Especially if you're holding the button down, then it just gets a really long set of pulses and doesn't know whats going on....whereas the TV or aircon knows what to look for among the mess...

Aircon to self:"oh look! A power on/off command! That must be it! What are the chances of it being something else...?"

Arduino:".....ugh.....oh man.....wha?.....gaaaaaaaaa! TMI! TMI! TMI! It doesn't make any sense! Why are you doing this to me!"

Among the frequency of pulsing, start bits, stop bits, and length of the train of pulses that is a single signal, maybe it just is too much for it sometimes.

So what I mean is, it might not be as bad as you think. Maybe code can fix it, or maybe some cheap logic analyzer can help you see what's going on.

**AndrewW360 (/member/AndrewW360/)** 2017-04-12 

Reply

Thank you so much! This helped greatly! #Set4Lyfe

**zeus\_is\_cool (/member/zeus\_is\_cool/)** 2016-12-26 

Reply

Hey guys,

I'm relatively new to arduino, and keep getting this error code with this program.

avrdude: ser\_open(): can't open device "\\.\COM4": The system cannot find the file specified.

Problem uploading to board. See <http://www.arduino.cc/en/Guide/Troubleshooting#up...> (<http://www.arduino.cc/en/Guide/Troubleshooting#upload>) for suggestions.

Anyone help?

**CalistoH1 (/member/CalistoH1/)** ▶ CalistoH1 (/member/<<replyAuthor>>) 2017-02-19 


Reply

just click on tools, then under com it should say the port its conected to, then click on it and it should work again

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by astrodan3 (/member/astrodan3/) in electronics (/explore/category/technology/channel/electronics/)

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zeus\_is\_cool (/member/zeus\_is\_cool/) ▶ zeus\_is\_cool (/member/zeus\_is\_cool/)

2016-12-26

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Reply

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I found it out.

I just forgot to choose the port to hook up the arduino.

KajaA (/member/KajaA/)

2017-01-18

Reply

Hello, I found the solution for compiling errors!

1.) You must download this folder:

<https://github.com/z3t0/Arduino-IRremote> (<https://github.com/z3t0/Arduino-IRremote>)

2.) Place folder in C:\Program Files (x86)\Arduino\libraries

3.) Rename it to "IRremote"

4.) Delete "RobotIRremote" folder.

5.) There is error in code at very top #include <IRremote.h> -->r is missing, put in: #include <IRremote.h>

I managed it to work that way. Hope you will too! cheers

MarcusB57 (/member/MarcusB57/)

2017-01-11

Reply

It's work fine!

(<https://cdn.instructables.com/FQS/OOTM/IXQG4DF2/FQSOOTMIXQG4DF2.LARGE.jpg>)

TheAwesome150 (/member/TheAwesome150/)

2017-01-08

Reply

SORRY, IT DOESNT WORK!!! It Says the sketch has errors when i compile it...

JohnN268 (/member/JohnN268/)

2017-01-07

Reply

Watch out, some IR receivers have the OUT on pin#1.

How can I clear the input buffer for the next IR read?

Saood Fraz (/member/Saood+Fraz/)

2016-12-08

Reply

How can i read IR receiver output on Arduino mega

IshaanW (/member/IshaanW/)

2016-12-05

Reply

the code just wont compile!

Arduino: 1.6.13 (Windows 10), Board: "Arduino/Genuino Uno"

In file included from

C:\Users\...\Documents\Arduino\recieverCode\recieverCode.ino:4:0:

# Arduino Infrared Remote Tutorial

astrodan3@gmail.com | [astrodan3@gmail.com](mailto:astrodan3@gmail.com) | <https://www.linkedin.com/in/astrodan3/> | <https://www.github.com/astrodan3/> | <https://www.youtube.com/channel/electronicstechnology/channel/electronics/>

C:\Users\...\Documents\Arduino\libraries\Arduino-IRremote-Download (Id/Arduino-Infrared-Remote-tutorial/) 7 Steps ▶

```
master/lir_Lego_PF_BitStreamEncoder.h:107:38: warning: integer overflow in
expression [-Woverflow]                                     + Collection
```

```
return STOP_PAUSE_DURATION + 5 * MAX_MESSAGE_LENGTH -
messageLength;
```

 $\wedge$ 

This application has requested the Runtime to terminate it in an unusual way.

Please contact the application's support team for more information.

Cannot create temporary file in C:\Users\...\AppData\Local\Temp\ : Permission denied

exit status 3

Error compiling for board Arduino/Genuino Uno.

This report would have more information with

"Show verbose output during compilation"

option enabled in File -> Preferences.

**daveed.alvarez (/member/daveed.alvarez/)**

2016-07-31

Reply

The sketch won't compile:

It gets the following errors:

```
sketch_jul31b:3: error: 'IRrecv' does not name a type
```

```
sketch_jul31b:4: error: 'decode_results' does not name a type
```

sketch\_jul31b.ino: In function 'void setup()':

```
sketch_jul31b:9: error: 'irrecv' was not declared in this scope
```

sketch\_jul31b.ino: In function 'void loop()':

```
sketch_jul31b:14: error: 'irrecv' was not declared in this scope
```

```
sketch_jul31b:14: error: 'results' was not declared in this scope
```

The code:

```
#include <IRemote.h>
```

```
int RECV_PIN = 11;

IRrecv irrecv(RECV_PIN);

decode_results results;

void setup()
{
  Serial.begin(9600);
  irrecv.enableIRIn(); // Start the receiver
}

void loop()
{
  if (irrecv.decode(&results))
  {
    Serial.println(results.value, HEX);
    irrecv.resume(); // Receive the next value
  }
}
```

**SachitC (/member/SachitC/)** ▶ SachitC (/member/<<replyAuthor>>)

Reply

do you have the library installed for it and included for the IR receiver at the top of the code?

2016-08-15



# Arduino Infrared Remote Tutorial

by

astrodan3 (/member/astrodan3/)

in electronics (/explore/category/technology/channel/electronics/)

SenthilS8 (/member/SenthilS8/)

►

SenthilS8 (/member/<<replyAuthor>>)

2016-11-29

Reply

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if the IRremote is used these errors don't appear. If IRremote is used the above errors appear

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thunderboypm (/member/thunderboypm/)

2014-09-03

Reply

c:/program files  
(x86)/arduino/hardware/tools/avr/bin/./lib/gcc/avr/4.3.2/./../avr/bin/ld.exe:  
sketch\_sep04a.cpp.elf section .text will not fit in region text

c:/program files  
(x86)/arduino/hardware/tools/avr/bin/./lib/gcc/avr/4.3.2/./../avr/bin/ld.exe:  
region text overflowed by 722 bytes

I got am error like this? what can i do? how i solve this? my board is arduino  
with atmega8 (FREEDUINO)

(<https://cdn.instructables.com/FR0YLAE/HZMJ6D6Q/FR0YLAEHZMJ6D6Q.LARGE.jpg>)

Wild Hunter (/member/Wild+Hunter/)

►

Wild Hunter (/member/<<replyAuthor>>)

2014-09-13

Reply

Hi @thunderboypm

You made mistake in writing the header file,

If you see your attached image, you have written "#include<IRremote.h>"

Correct it by writing; "#include<IRremote.h>

Happy :-)

dattani (/member/dattani/)

►

dattani (/member/<<replyAuthor>>)

2016-11-27

Reply

What can I do if i want to Compare two IR received Strings ???

William Liisberg (/member/William+Liisberg/)

2016-11-08

Reply

Didn't get anything on the serial monitor... Then i realized i had forgotten to  
change the pin you read on. Haha!

PabloS84 (/member/PabloS84/)

2016-11-01

Reply

Great tutorial! I broke apart a small IR Helicopter toy I had around. I used its IR  
sensor for this tutorial. What's strange, is the IR Sensor won't detect any signal  
from it's original remote, but it reads signals from any other TV remotes I got  
hanging around.

Anyone has any clue what I can be missing?

The Remote has 3 "chanel" or 3 comm protocols so that you can fly up to 3 of  
these things without the signals interfering, but the IR sensor won't pick up any  
kind of signal whatsoever!

Cheers again for this great piece of info!

RifkyR3 (/member/RifkyR3/)

2016-10-08

Reply

IR remote does not display in the serial monitor I receive I think I uploaded the Arduino Infrared Remote Tutorial by stick my hand into IR receiver  
astrodan3 (/member/astrodan3/) see all codes. (/explore/category/technology/channel/electronics/)

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2016-01-22

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Hi I need to resolve is there who can help me  
Thank you

(https://cdn.instructables.com/FQO/H6PQ/IJP23SPT/FQOH6PQIJP23SPT.LARGE.jpg)

JUST CHILIN (/member/JUST+CHILIN/)

JUST CHILIN (/member/<<replyAuthor>>)

delete the robort ir library its creating the problem

2016-08-24

Reply

rafaelInfs (/member/rafaelInfs/)

rafaelInfs (/member/<<replyAuthor>>)

2016-05-01

you have open arduino libraris in your case, E:\arduino-nightly\libraries and delete this library (RobotIRremote). close arduino and open again & Ready :)

Piriaux (/member/Piriaux/)

2016-08-23

Works like a charm(and yes, it's not connected atm)

Reply

(https://cdn.instructables.com/FCN/7TD5/IRXTMKMU/FCN7TD5IRXTMKMU.LARGE.jpg)

munixpx (/member/munixpx/)

2016-07-14

Nice and easy, works also with my Android phone as a remote!!

Reply

pp1307 (/member/pp1307/)

2016-06-24

Nice Abstract.

Reply

ananth raj (/member/ananth+raj/)

2016-01-22

Thanks a lot.... I have been breaking my head to understand IR buttons coding. Helped a lot.

Reply

statbat (/member/statbat/)

statbat (/member/<<replyAuthor>>)

2016-05-23

Mine too. This guy is so bad, he should atleast have decency to update his tutorial and mention about it. I fried mine also.

Reply

# Arduino Infrared Remote Tutorial

by [astrodan3 \(/member/astrodan3/\)](#) in [electronics \(/explore/category/technology/channel/electronics/\)](#)  
How can you take this and make it do something when you press a button.

Such as Print a line or run a motor?

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**Brandon\_214 (/member/Brandon\_214/)** ▶ [Brandon\\_214 \(/member/<<replyAuthor>>\)](#)

Yes I have programmed it to receive code from a Sony remote and move a servo

2016-05-18

Reply

**greenberg70000 (/member/greenberg70000/)** ▶ [greenberg70000 \(/member/<<replyAuthor>>\)](#)

Can you post that if pressed code?

2016-05-18

Reply

**Roboguy2811 (/member/Roboguy2811/)**

Do you have a program to connect motors to arduino and control them using IR remote?

2016-05-05

Reply

**rafaelInfs (/member/rafaelInfs/)**

my code for one led and remote control of MP3 player.

2016-05-01

Reply

(<https://cdn.instructables.com/F76/PUOZ/INOW33DZ/F76PUOZINOW33DZ.LARGE.jpg>)

**rafaelInfs (/member/rafaelInfs/)** ▶ [rafaelInfs \(/member/<<replyAuthor>>\)](#)

```
#include <IRremote.h> // libreria IR control remoto.

int RECV_PIN = 11;// pin donde recibiremos la señal

#define ON 0xFFA25D // direccion es FFA25D pero se le agrega el 0x
// porque asi se le dice al arduino que es HEXADECIMAL.

#define OFF 0xFF629D // tecla control stop

unsigned int led = 13;

boolean estado = false;

IRrecv irrecv(RECV_PIN); //

decode_results results;

// aca guardamos el dato que nos del el IR

void setup()
{
  //Serial.begin(9600);

  irrecv.enableIRIn(); // Inicia el IR in

  pinMode(led,OUTPUT); // configuramos el led como salida
}

void loop() {

  // si el IR recibe una señal se habilita la funcion.
```

Reply


2016-05-01

if (irrecv.decode(&results)) {  
switch (results.value)  
{  
case ON:  
// en el caso que sea la direccion 0xFFA25D  
// se ejecuta lo siguient  
if (estado ? false : true){  
// si es estado del es false se ejecuta  
// y se asigna al estado true.  
estado = true;  
digitalWrite(led,estado);  
}  
else  
{  
//sino se le asigna false nuevamente para que el led  
// permanezca apagado  
estado = false;  
digitalWrite(led,estado);  
}  
break;  
}  
delay(200); // 1/5 second delay for arbitrary clicks. Will implement  
debounce later.  
irrecv.resume(); // Receive the next value  
}  
}


Arduinoinfrared Remote Tutorial

by astrodan3 (/member/astrodan3/) in electronics (/explore/category/technology/channel/electronics/)

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SamL74 (/member/SamL74/)

2016-04-10

Reply

Will any IRreceiver work with any remote? OR do I need a specific one? I've been trying to do this project, however my receiver and my remote don't seem to be working. Is there a way that my project could have failed?

rafaelnfs (/member/rafaelnfs/) ▶ rafaelnfs (/member/<<replyAuthor>>)


2016-05-01

Reply

work with any Remote control I tested the skecth but I have to delete de RobotIRemote (included as default )  
this is my code:  
apagar = FFA25D  
  
stop = FF629D  
  
mute = FFE21D  
  
mode = FF22DD  
  
back-row = FF02FD  
  
EQ = FFC23D  
  
back = FFE01F  
  
adelante = FFA857  
  
play/stop = FF906F  
  
vol+ = FF6897  
  
vol- = FF9867

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astrodan3 (/member/astrodan3/) in electronics (/explore/category/technology/channel/electronics/)

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