TV Out With Arduino

By AdmRainbowBeard (/member/AdmRainbowBeard/) in Circuits (/circuits/) > Arduino (/circuits/arduino/projects/) 222,726 660 64 Featured

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This Instructable is for those who would like to use your Arduino to output to a TV. Granted the Arduino is only powerful enough to produce a black and white picture it can still be fun to play with and useful for some projects.

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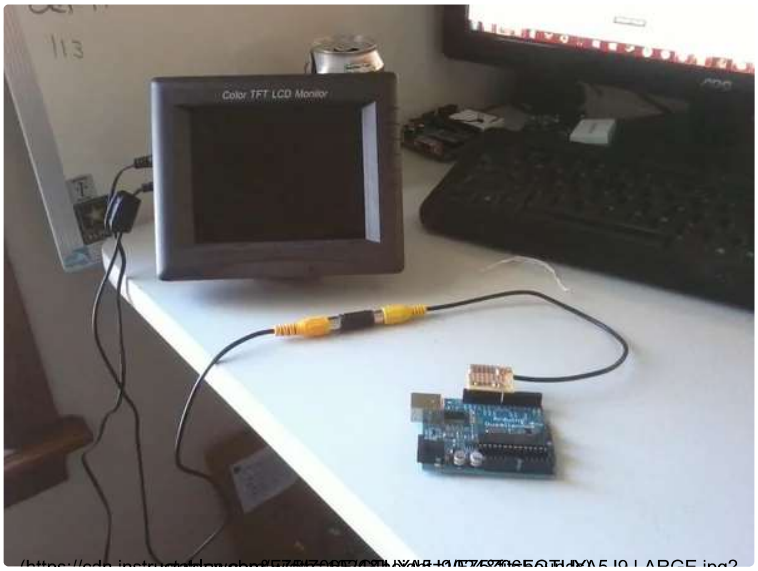
Step 1: Item List



Things you will need:

Hardware

- Arduino
- A TV
- A Protoboard or PCB
- 2 Resistors

1x 470 ohm (Yellow, Violet, Brown)

1x 1k ohm (Brown, Black, Red)

- 2x 2-Pin headers (Only 3 are used but the 4th helps with stability)
- Spare RCA cord you don't mind cutting up

Software

- Arduino Software (http://arduino.cc/en/Main/Software (http://arduino.cc/en/Main/Software))
- The TVout library (http://code.google.com/p/arduino-tvout/ (http://code.google.com/p/arduino-tvout/downloads/detail?name=TVout_R5.91.zip&can=2&q=))

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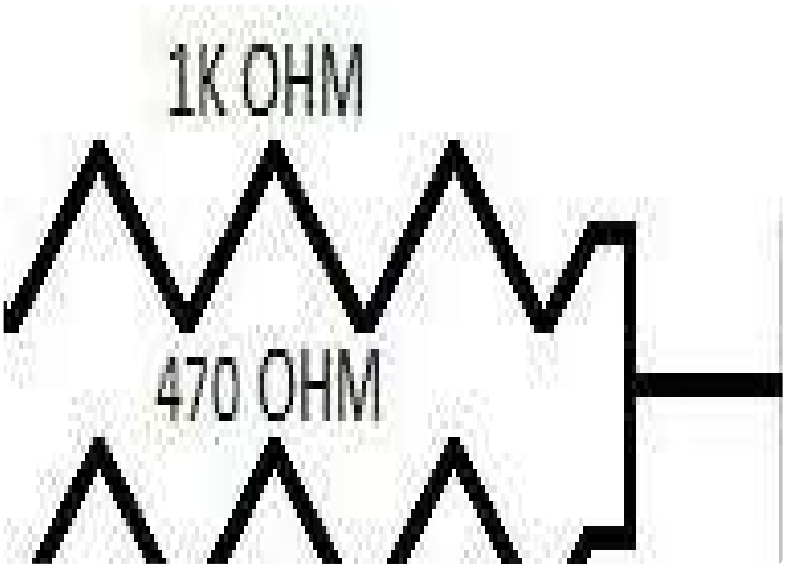
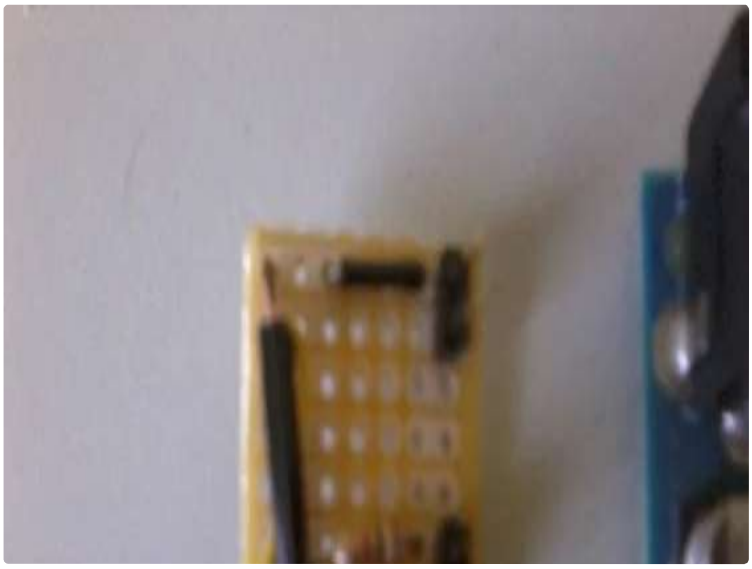
Step 2: Assembly





Ok I had already made this connector piece before I decided to make an Instructable.. And I apologize for the poor quality of the images, my cell phone's camera isn't the best but I think you'll get the point.

I got this schematic from the TVout Libraries Google code website: http://code.google.com/p/arduino-tvout/ (http://code.google.com/p/arduino-tvout/)

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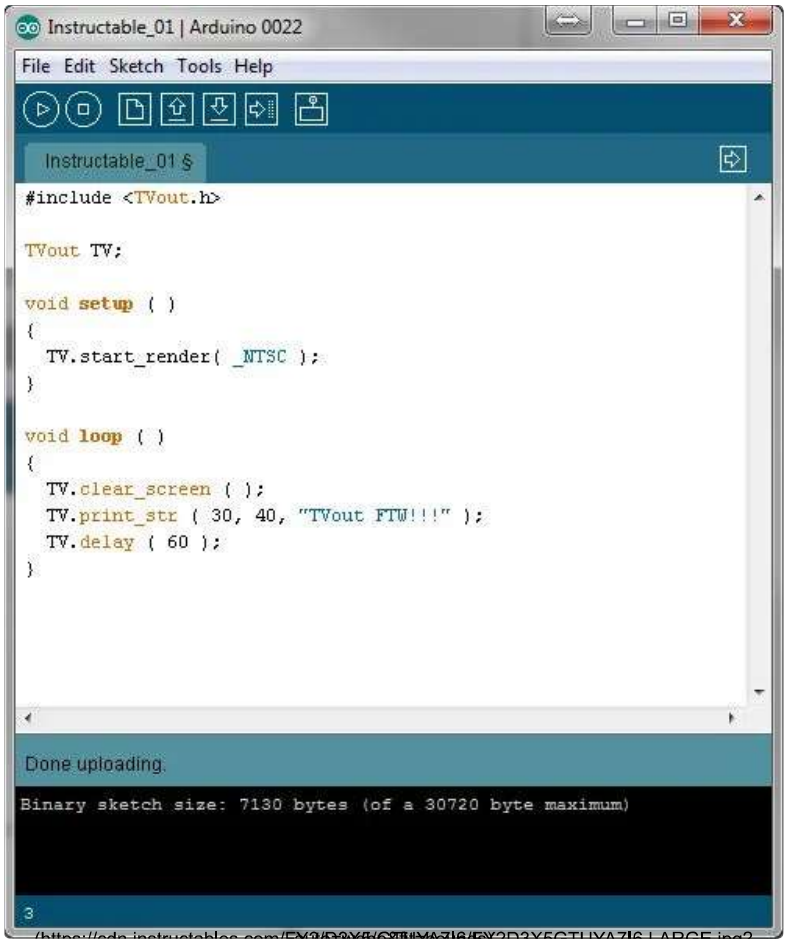
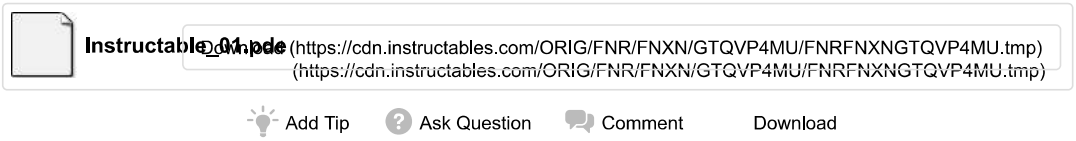
Step 3: Programming



Now for the fun part... Programming...

When it comes to the TVout Library there is a new version but it's still in beta and I've found it to be buggy so I just use the R5.91 release (http://code.google.com/p/arduino-tvout/downloads/detail?name=TVout_R5.91.zip&can=2&q= (http://code.google.com/p/arduino-tvout/downloads/detail?name=TVout_R5.91.zip&can=2&q=))

I'm assuming you have a basic knowledge of Arduino programming so I won't go into too much detail here.. For a complete list of commands for the TVout Library go here (http://code.google.com/p/arduino-tvout/wiki/FDcomplete (http://code.google.com/p/arduino-tvout/wiki/FDcomplete))



Step 4: Finished Product

Now this is just the start... There is so many possibilities with this, One website really shows how the Arduino can be used as a game console (http://nootropicdesign.com/hackvision/games.html (http://nootropicdesign.com/hackvision/games.html))

Also I plan on releasing more projects to further explore uses of the Arduino and TVout library

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4th Epilog Challenge (/contest/epilog4/)

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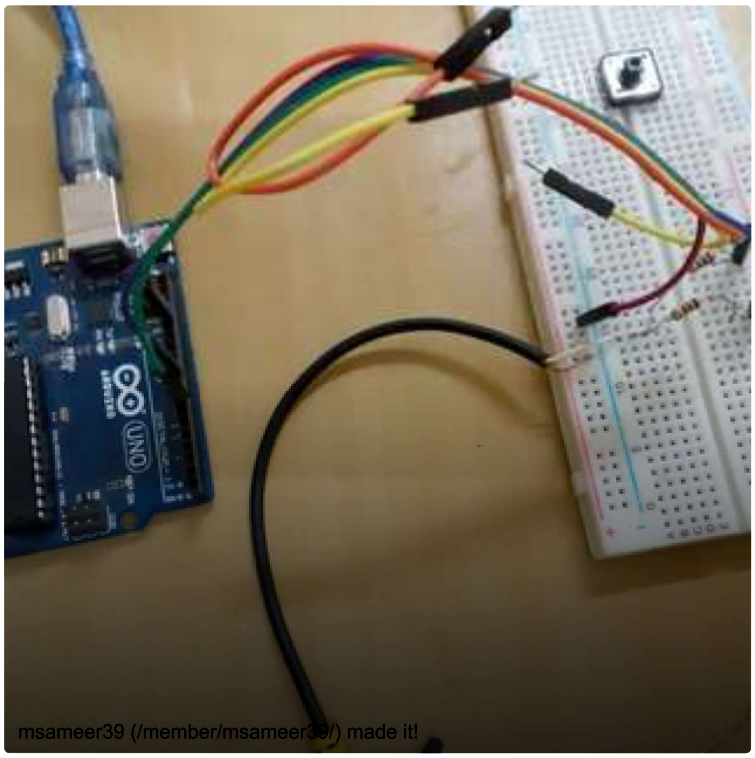
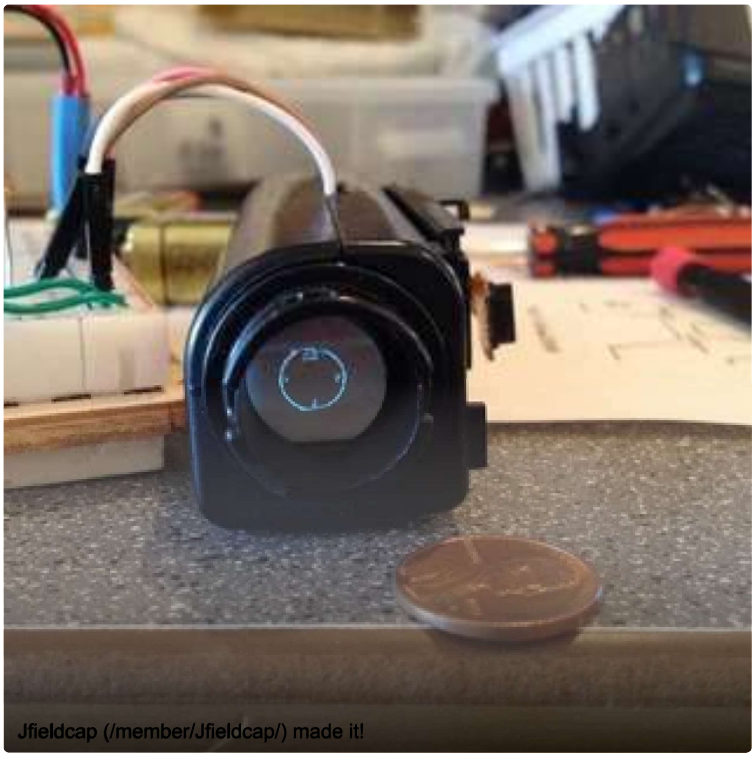
Participated in the
Make It Glow Challenge (/contest/glow/)

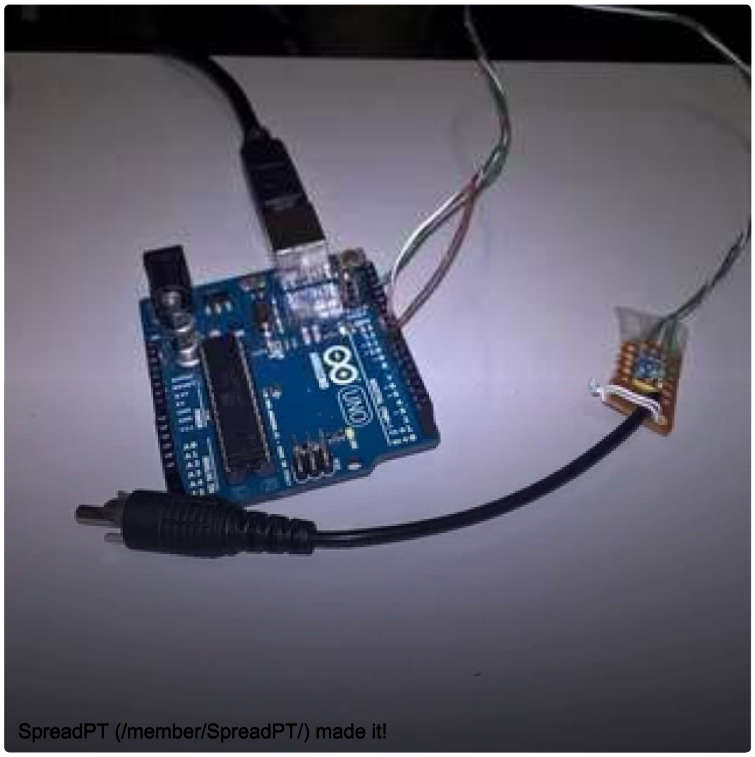
View Contest

11 People Made This Project!

devicemodder (/member/devicemodder/) made it!


msameer39 (/member/msameer39/) made it!


Jfieldcap (/member/Jfieldcap/) made it!


SpreadPT (/member/SpreadPT/) made it!

jerry.ericsson2 (/member/jerry.ericsson2/) made it!

JohnDragonMan (/member/JohnDragonMan/) made it!

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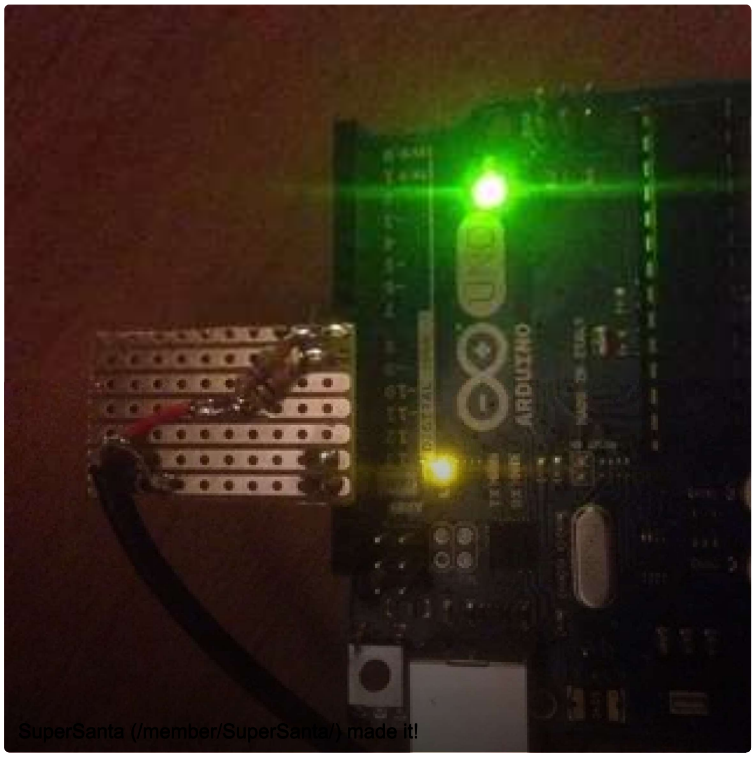
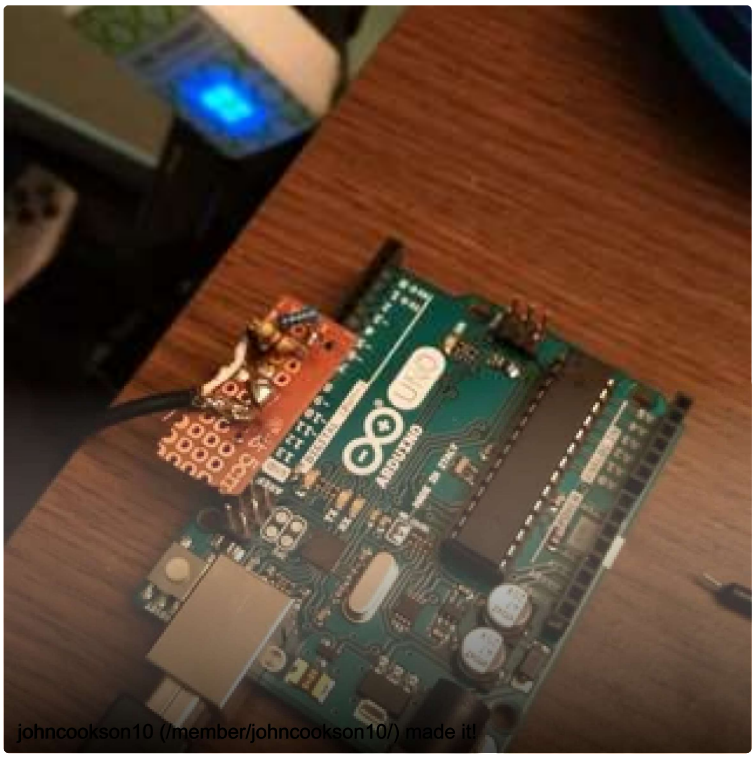


SuperSanta (/member/SuperSanta/) made it!



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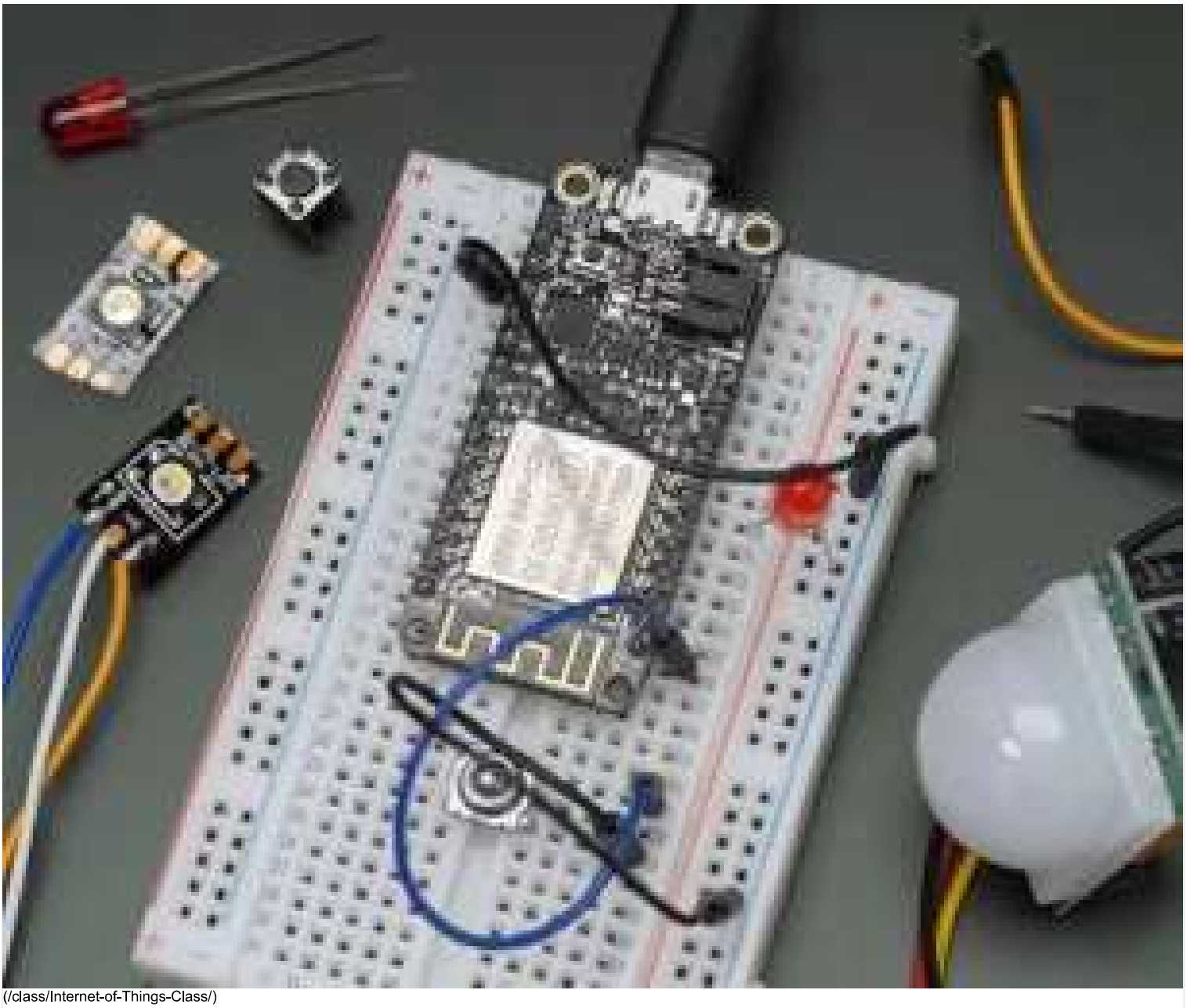
Wearable Tech Wallet (/id/Wearable-Tech-Wallet/)

by MargenauMaker (/member/MargenauMaker/) in Arduino (/teachers/projects/?subjects=arduino)

(/id/Ultimate-Dry-Ice-Machine-Bluetooth-Controlled-Batt/)

Ultimate Dry Ice Machine - Bluetooth Controlled, Battery Powered and 3D Printed. (/id/Ultimate-Dry-Ice-Machine-Bluetooth-Controlled-Batt/)

by DIY Machines (/member/DIY%20Machines/) in Arduino (/circuits/arduino/projects/)



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Please be positive and constructive.

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64 Discussions

(/member/simaopintocorreia/) simaopintocorreia (/member/simaopintocorreia/) 3 months ago

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i HAVE DOWNLOADED THE LIBRARY TODAY AND I AM EXPLORING THIS BECAUSE THE EXEMPLES ARE VERY LONG AND THIS ARE SIMPLE .
THANCKS.

(/member/devicemodder/) devicemodder (/member/devicemodder/) 1 year ago Reply Upvote

Can i get a link to buy that screen?

(/member/msameer39/) msameer39 (/member/msameer39/) 2 years ago

Reply Upvote

How can I get the bitmap converted into arduino readable file?

(/member/msameer39/) msameer39 (/member/msameer39/) 2 years ago

Reply Upvote

That is great. I am going to try it

(/member/mpetkovi%25C4%25871/) mpetković1 (/member/mpetkovi%25C4%25871/) 2 years ago

Reply Upvote

I'm having troubles using this library. I use DHT22 sensor and BMP180 sensor. When i call read function of each sensor it returns me nonsense(DHT22 sensor says it's -999 % humidity and barometric sensor says it's 0 degrees C and 2.34 hPa pressure). Can anyone help me? I would appreciate any advice.

(/member/JordanM148/) JordanM148 (/member/JordanM148/) 2 years ago

Reply Upvote

Guys how about the input of the message? does it by manual input using keyboard? or by sending message through cellphones?

(/member/JonathanR119/) JonathanR119 (/member/JonathanR119/) 3 years ago

Reply Upvote

is this compatible with arduino mega 2560?

(/member/JonathanR119/) JonathanR119 (/member/JonathanR119/) 3 years ago

Reply Upvote

hi sir...what pin should I use if I'm using arduino mega 2560?..

(/member/AaravM/) AaravM (/member/AaravM/) 3 years ago

Reply Upvote

it isnt working it shows
Arduino: 1.6.8 (Windows 7), Board: "Arduino/Genuino Uno"
C:\Users\Mohit\Documents\Arduino\sketch_mar29d\sketch_mar29d.ino:1:19: fatal error: TVout.h: No such file or directory
#include <TVout.h>
^
compilation terminated.
exit status 1
Error compiling for board Arduino/Genuino Uno.
This report would have more information with
"Show verbose output during compilation"
option enabled in File -> Preferences.

2 replies

(/member/OfficialLingga/) OfficialLingga (/member/OfficialLingga/) 3 years ago

Reply Upvote

cara downloadna kumaha brayyyy

(/member/AaravM/) AaravM (/member/AaravM/) 3 years ago

Reply Upvote

where is the code i cant find which code to use

1 reply

(/member/HarryS42/) HarryS42 (/member/HarryS42/) 3 years ago

Reply Upvote

Thank you so much for sharing the good experience for me. I am just step into beginner stage. Hope many of us are happy with your support on Arduino work.

(/member/u971/) u971 (/member/u971/) 3 years ago

Reply Upvote

Thanks for this it was easy and fun to make and play with.

(/member/DmitryI/) DmitryI (/member/DmitryI/) 3 years ago

Reply Upvote

It would be nice to use it for Arduino Oscilloscope on that screen.

(/member/RocketmanR/) RocketmanR (/member/RocketmanR/) 3 years ago

Reply Upvote

I have a mac and I don't know how to download the library? Can some one please help

(/member/DataLoreBorg/) DataLoreBorg (/member/DataLoreBorg/) 4 years ago

Reply Upvote

Does the 470ohm resistor have to be exactly that? because I am having a hard time finding that and I don't really want to buy one because radio shack is really far away. If it doesn't then what's the best repacement.

1 reply

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