

PROJECTS

arduino uno

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I2C Liquid Crystal Displays

All you need to know about I2C LCD screens on an Arduino Uno.

i2c

Nov 11, 2019 • 461793 views • 21 respects **f** in X Ø | \

lcd

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I2C 16x2 Arduino LCD Display







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Project description

This project is for people who have an I2C lcd screen and can't find any videos or projects on how to code them.

The first step is to find a working library of them. I use liquid crystal I2C, and wire. link for liquid crystal here,

link for wire here

The second step is to add the libraries to your arduino



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GND-> ground

VCC-> +5V

SDA-> A4

SCL-> A5

The last step is to upload the code

(be sure to delete everything from your blank sketch before pasting the sketch into it)

Code

Code for

screen

c_cpp







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HILLPS.//OFEGLE.AFAULTHO.CO/PFOJECTHAD/AFAULTHO_A

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Downloadable files

wiring diagram

wiring diagram



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PROJECT HUB

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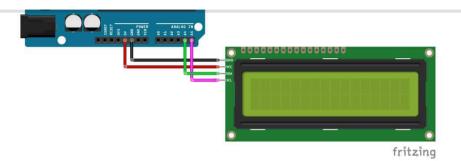
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wiring diagram

wiring diagram







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fritzing

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10 days

ago

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this is the code I used for my JHD 162a:

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd_1(39, 16, 2);

void setup()

lcd_1.init();

lcd_1.backlight();

lcd_1.print("hello world");

hope this helps!



imre78

a month

ago

I think most users used IIC to connect the LCD display. You can download the file "LiquidCrystal_I2C.h" from http://downloads.arduino.cc/libraries/github.com/marc



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RickMK

5

months

ago

OK, to get the above code to work using copy/paste you need to do a few bits.

Add "< >" to the below includes.

#include <Wire.h>
#include <LiquidCrystal_I2C.h>

5

Add ";" to the end of delay(1000) delay(1000);

change the quotes on both of the output text to the correct types...

" " not " "

That should compile, if it does and you get no display

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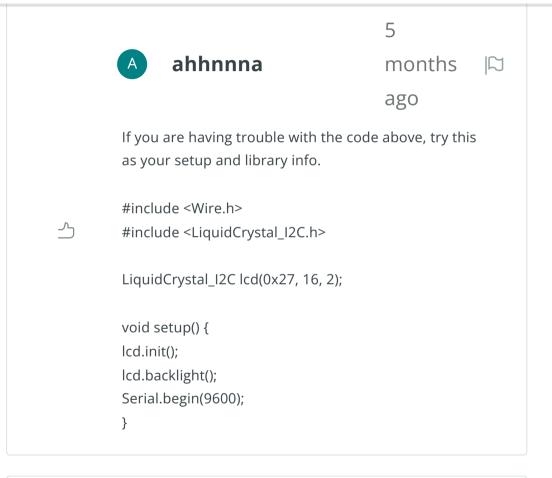
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months



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 $rhombus_octogon$

months

ago

i cant download the wire file. does anyone have an idea for how i could get it to work?

R

rigter

a year

ago

5

at last it worked! don't copy/paste the code. type it in yourself and it will work:)



Jackpbass

a year

ago



Sadly, this is not a simple beginner level project that was able to walk you through the needs of making it work in a easy way. It requires some basic knowledge



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steeleb

a year

ago

5

I am new to this but, maybe change:

13//the 2nd parameter is how many "COLUMNs" are on your screen

14//the 3rd parameter is how many ROWs



steeleb

a year

ago

L

^

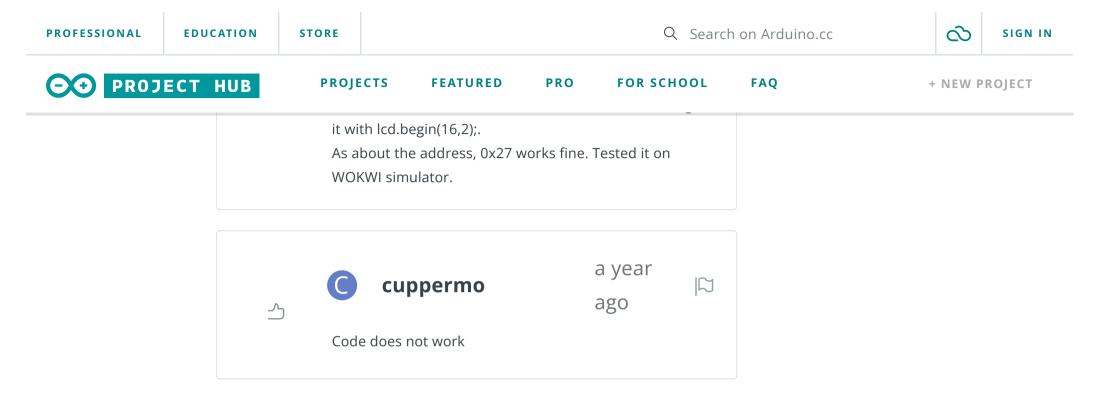
I know this is a comment but it is 16 columns and two rows huh maybe a bit confused



asitold

a year

ago





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CAN YOU TEACH ME HOW TO CREATE AN ANIMATIOON DISPLAY PLEASE



Anonymous

2 years

ago

user

If you're having the problem "class 'LiquidCrystal_I2C' has no member named 'init'", it's because your lcd is using a newer version of library. Try changing:



lcd.init()

into:

lcd.begin()

and it will work just fine.

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LOL Still broken! Won't even compile - fix it or dump it.



Anonymous

2 years

user

ago

Bonjour, lorsque j'installe ce code et que je le vérifie il se met en défaut et m'indique

exit status 1

#include expects "FILENAME" or <FILENAME>

Comment corriger le code

Merci d'avance



Anonymous

2 years

user

ago



If you're getting the \\342 error check out this link. I used this code with the pinout described above and it worked without an issue.

https://create.arduino.cc/projecthub/Oniichan_is_ded/l



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_

Hello! If I2C connector is soldered to display, I can't wire it up in general way, not I2C?
With general LiquidCrystal library and not wired I2C adapter, display turns on the first row, thats all.
Thanks!



deltacovid

2 years

ago

<u>_</u>

Please help. I cannot open the wire library.



Anonymous

2 years

user

ago

If anybody is having no luck with this code there maybe be a chance that the LCD_I2C module you have is hardwired to a have different "Address".

The example here assumes the address 0x27, as used



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wire up the LCD module as above but run this sketch, it will output the address of any found I2C devices.

https://playground.arduino.cc/Main/I2cScanner/

Replace the address of your module in the line.

LiquidCrystal_I2C lcd(**YOUR_I2C Address**, 16, 2);

Good Luck



Anonymous user

2 years

ago

~

Is there anyway to change which Pins SDA and SCI go to? does it have to be A4 and A5 or is there a way to change which one it goes to?



3 years





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Anonymous

user

4 years

ago

If you're having the problem "class 'LiquidCrystal_I2C' has no member named 'init'", it's because your lcd is using a newer version of library. Try changing:

 \triangle

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into:

lcd.begin()

and it will work just fine.



Anonymous

5 years

user

ago





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LOL Still broken! Won't even compile - fix it or dump it.



Anonymous

5 years

user

ago



Ive attempted this but the text is really faint and the screen isn't bright at all. I've played about with the potentiometer but it doesn't make it any brighter. Any suggestions?



Anonymous

5 years



user

ago

I just thought I'd 'borrow' this code to get a LCD up and running quickly.

Didn't quite work out that way!

I used the Copy Code button and pasted it into a project but kept geting an error:-

sketch_may03b:27:3: error: stray '\\342' in program lcd.print("Hello, From");



keyboard)

I assume \\342 is a character code for the symbol used.

Not easy to see but important.

Hope that helps someone.

Phil

PS. also missed out ';' after delay(1000)

PPS. I2C base address can also be 0x3F depending on which I2C controller chip you have.

(0x38..0x3F or 0x20..0x27 are possible)





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if it does not print the information. what should I do about that. could u help me with that?



Anonymous user

5 years

ago



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With general LiquidCrystal library and not wired I2C

With general LiquidCrystal library and not wired I2C adapter, display turns on the first row, thats all.

Thanks!



Anonymous user

5 years

ago



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Replace the address of your module in the line.

LiquidCrystal_I2C lcd(**YOUR_I2C Address**, 16, 2);

Good Luck



MisterBotBreak

5 years

ago



Life isn't kind! Every time I want to make a project, people makes it before me:-(. Nevertheless good project



Anonymous

5 years



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glennedi

2 years

ago

(I assume you mean 20 by 4 display, never seen a 16 by 4)

Yes, I2C backpacks can be used to control 20 by 4 LCD displays.

You would need to alter the initializer:

//initialize the liquid crystal library LiquidCrystal_I2C lcd(0x27, 16, 2);//alter the 16 to 20 and the 2 to 4

and use the appropriate line numbers in setCursor().

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