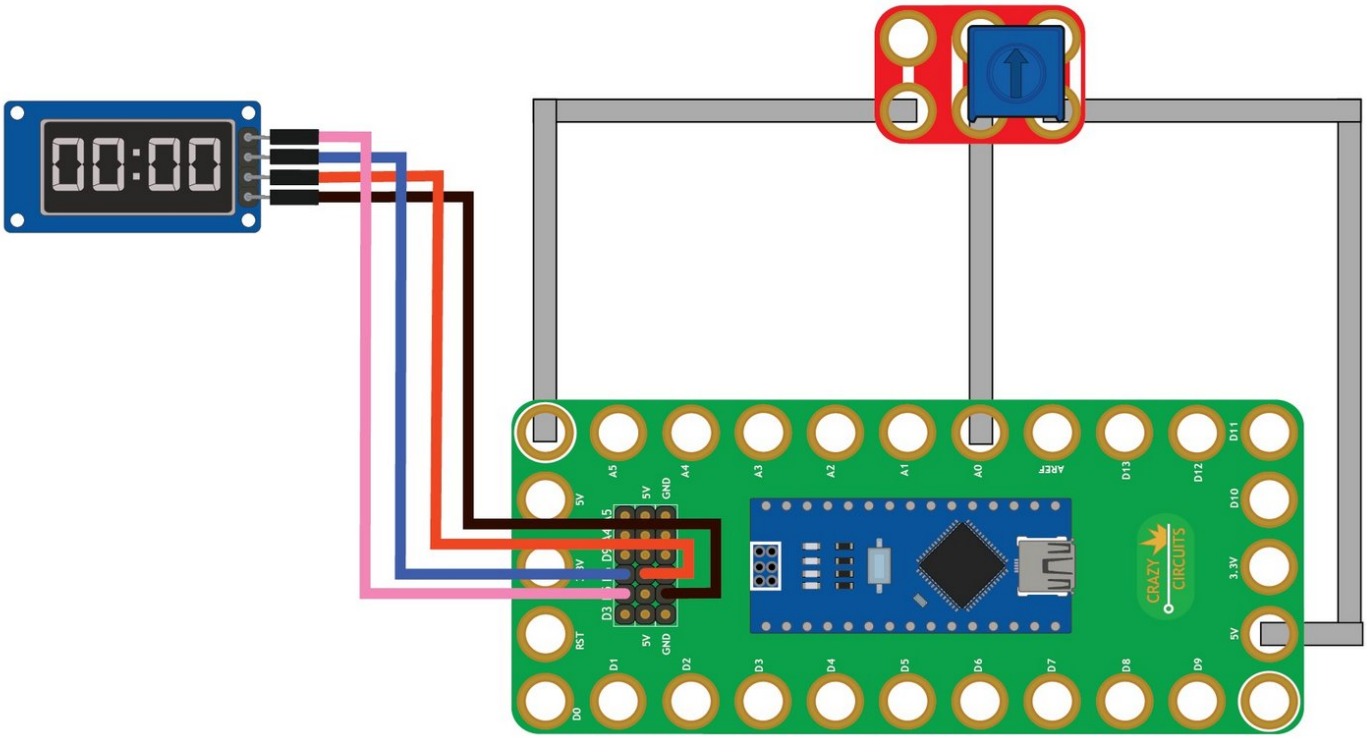
14 - Potentiometer with 7 Segment Display

Use our Programming 101 kit to control a 7 segment display with a potentiometer.

Written By: Pete Prodoehl



INTRODUCTION

Use our Robotics Board to control a 7 segment display with a potentiometer.

TOOLS:

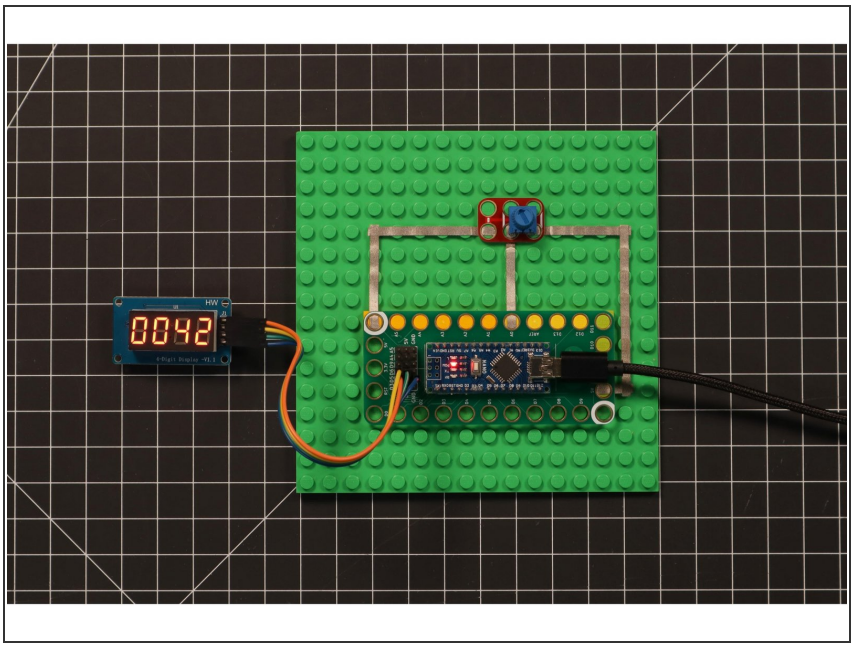
- Scissors (1)
- Computer (1)

PARTS:

- Crazy Circuits Robotics Board (1)
- Crazy Circuits Potentiometer Chip (1)
- 7 Segment Display (1)
- Maker Tape (1)
  1/8" Wide
- Crazy Circuits Ribbon Cable (1)

© 2025

Step 1 — Build the Circuit

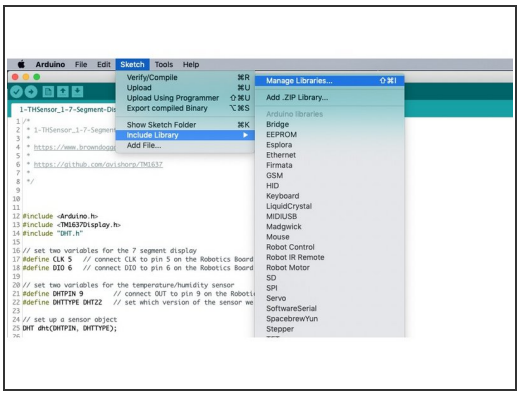


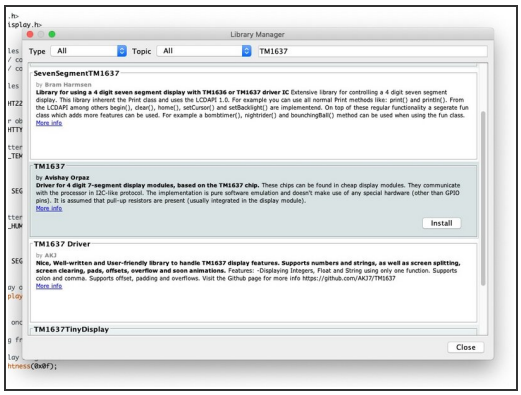
- Build the circuit as shown in the diagram using the components specified.

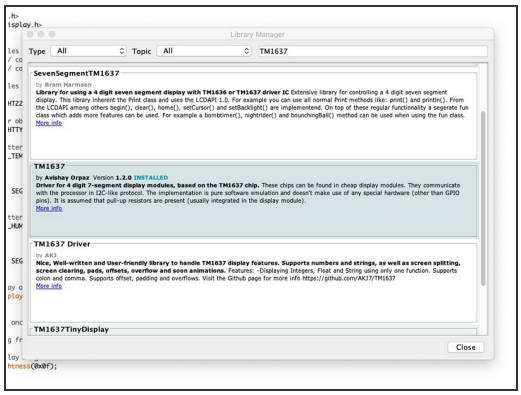
ⓘ You can use any color jumper wires for the 7 segment display, just make sure they are plugged into the right place.

© 2025

Step 2 — Install TM1637 library

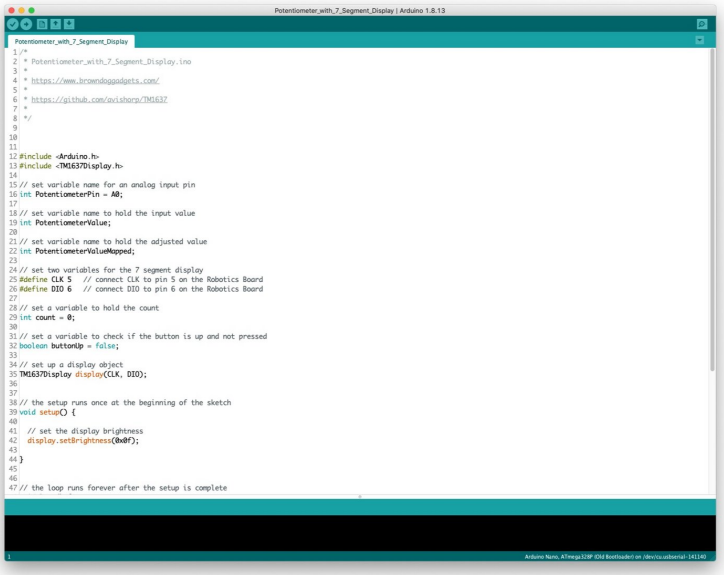






- Install and launch the Arduino software.
- Click on the **Sketch** menu, select **Include Library**, and then **Manage Libraries...**
- On the top right side type **TM1637** and it will show the results in the bottom of the window. We want the **TM1637** by **Avishay Orpaz**. Click the **Install** button.
- The library will be downloaded and **installed**, and then show the word Installed along with the version number. Click the **Close** button in the lower right corner. You are now ready to upload your Arduino sketch!
- (These instructions can also be found in the PDF file **Installing-TM1637-Library.pdf**)

Step 3 — Upload the Code



- Upload the Arduino sketch to the Robotics Board.
- You can find the code here: https://github.com/BrownDogGadgets/Progr...