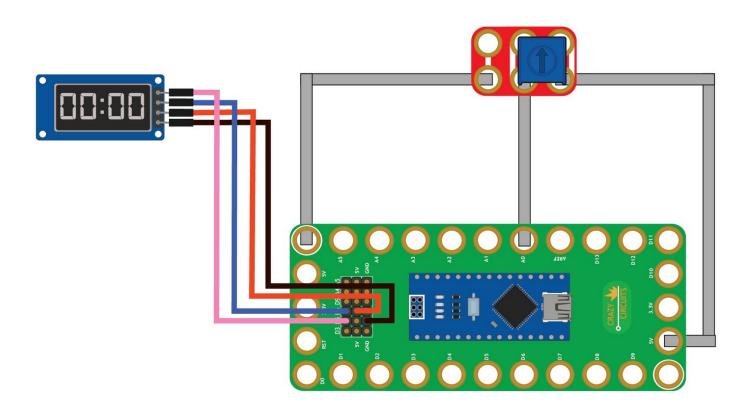


# 14 - Potentiometer with 7 Segment Display

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

Written By: Pete Prodoehl

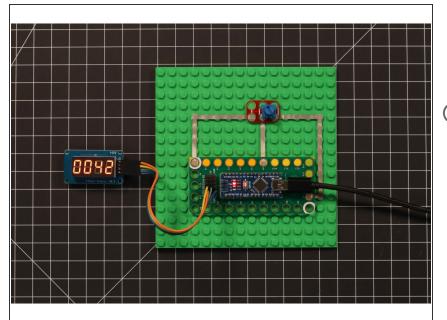


## INTRODUCTION

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

TOOLS:	DARTS:
<ul> <li>Scissors (1)</li> </ul>	<ul> <li>Crazy Circuits Robotics Board (1)</li> </ul>
<ul> <li>Computer (1)</li> </ul>	<ul> <li>Crazy Circuits Potentiometer Chip (1)</li> </ul>
	<ul> <li>7 Segment Display (1)</li> </ul>
	<ul> <li>Jumper Wires (4)</li> </ul>
	<ul> <li>Maker Tape 1/8th inch (1)</li> </ul>

### Step 1 — Build the Circuit



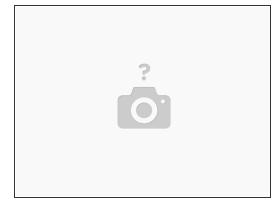
- Build the circuit as shown in the diagram using the components specified.
- (i) You can use any color jumper wires for the 7 segment display, just make sure they are plugged into the right place.

### Step 2 — Install TM1637 library

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Configure 1.7-Septem Service 2000 PEOD FOOD FOOD     Service 2000 PEOD FOOD FOOD     Service 2000 PEOD FOOD FOOD FOOD FOOD FOOD FOOD FOOD F	EspRick Esplora Esplora Findia	HTTY tter _TEM	The state of the s	tter	This of the second seco
<pre>11 Martine CLK 5 // connect CLK to pin 5 on the Rubotics Board Swarrine DD 6 // connect DD to pin 6 on the Rubotics Board DD // set the variables for the temperature/humidity sense to pin 1 // set to be account of the sensor we classification entropy DD // set which version of the sensor we classification entropy. A set to a consor object to do account pin 1 // set to a consor object to be account pin 1 // set to a consor object to be account pin 1 // set to a consor object to be account pin 1 // set to a consor object</pre>	rd Robot Motor SD SPI	ay c play onc g fr	New, The Andreas and Guer-Kinedy Wahary In Anada THELOT Applicity Natures. Supports Anadreas and Antriags, as well as occass patitives are as a second and analyzed as a second and an analyzed as a second and an analyzed as a second patitive Second Caller and Analyzed as a second and an analyzed as a second and an analyzed as a second second second as a second second as a second second as a second second as a second as	ay c Ma play	No. Of the sufficient of base-feedback block have based in this 25 days (base-s. Superior based and one of the sufficient of the suffic

- 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: <u>https://github.com/BrownDogGadgets/Crazy...</u>