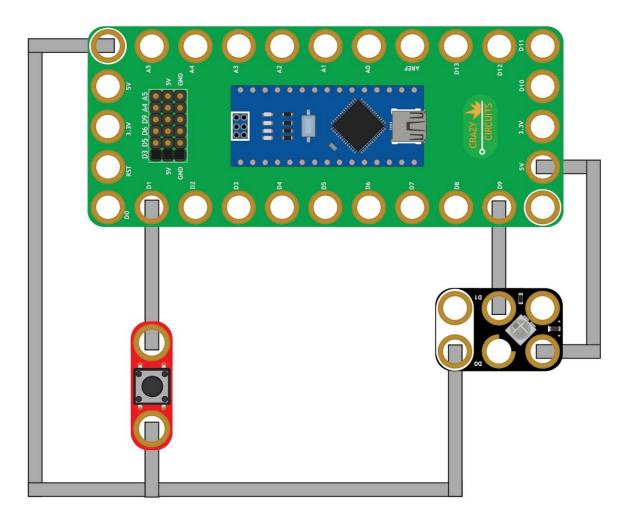


# 16 - Pushbutton with NeoPixel

Use our Programming 101 kit to control a NeoPixel with a pushbutton.

Written By: Pete Prodoehl

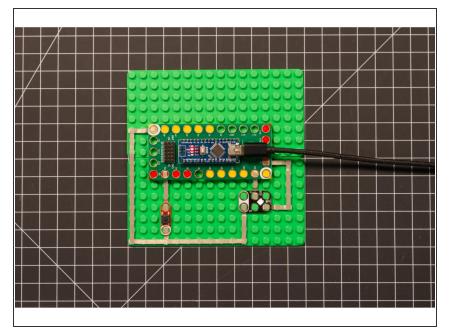


## INTRODUCTION

Use our Robotics Board to control a NeoPixel with a pushbutton.

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>Standard Pushbutton Chip (1)</li> <li>NeoPixel Chip (1)</li> </ul>
	<ul> <li>Maker Tape (1)</li> <li>1/8" Wide</li> </ul>

## Step 1 — Build the Circuit



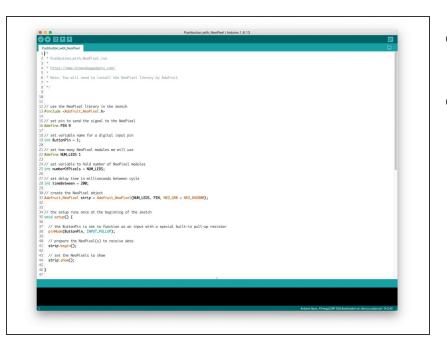
 Build the circuit as shown in the diagram using the components specified.

### Step 2 — Install NeoPixel library

Arduino File Edit Sketch Tools Help     VerifviCompile \$18		xmetcerrui = m, Lible one to hold the foreit unite Lible one to hold the foreit unite	
Constraints of the second	Ad 20 Units. Or An Ad 20 Units Add 20 Units. Or Add 20 Units Add 20 Units. Of Add 20 Units Biologie Biologie Biologie Biologie Chilo	Land To Pier All Topic All Propic	ED Rose

- Install and launch the Arduino software.
- Click on the Sketch menu, select Include Library, and then Manage Libraries...
- On the top right side type NeoPixel and it will show the results in the bottom of the window. We want the Adafruit NeoPixel library by Adafruit. Click the Install button.
- The library will be downloaded and **installed**, and then show the word Installed along with the version number.
- If you are done installing libraries click the **Close** button in the lower right corner.
- (These instructions can also be found in the PDF file Installing-NeoPixel-Arduino-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</u> /Progr...