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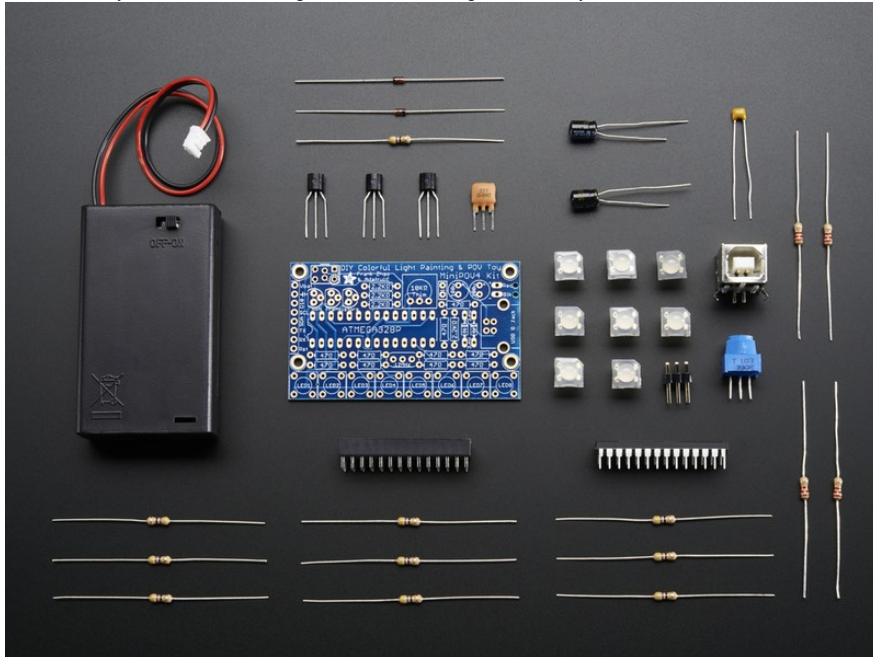
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This tutorial may be outdated. It is no longer recommended for beginners, and may need modifications to code or hardware that is not indicated in the tutorial.



Adafruit MiniPOV3 Kit

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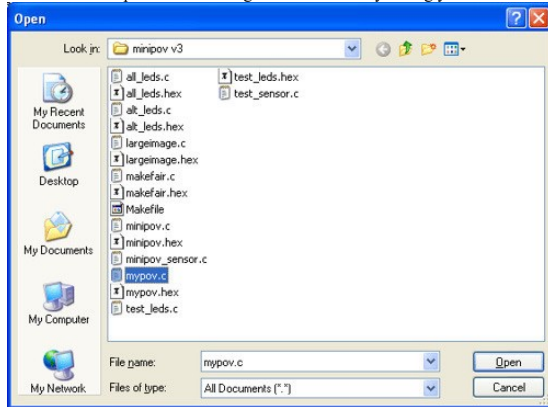
Customize

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Programming/Changing the Image

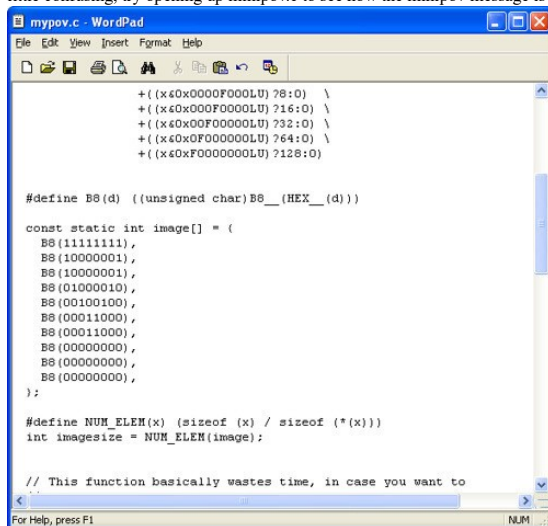
Innovate

Now it's time to put a custom image into the POV toy. Using your favorite text editor, for example, Wordpad, open up the file **mypov.c** in the minipov3 firmware directory you extracted earlier.



Near the top of the file is a table called **image[]**. Each entry in the table is an 8 bit number (which is displayed in binary: B8(00000000) through B8(11111111). The 'B8()' just indicates to the compiler it's in binary not in decimal). When the microcontroller starts up, it basically goes through the table and uses the value to determine whether each LED is on or off. For example, if the value is 01010101, then all the odd LEDs are on. If the value is 00000011, then the bottom 2 LEDs are on.

After drawing the desired design on graph paper, go through each line and edit **image[]**, adding or removing lines to make the table the right length. The table can be more than 500 lines long. (Hint: the easiest way I've found to do this is to copy enough 'B8(00000000),' lines to fit the size of your design, then enter in the 1's in insert/overwrite mode, which almost all text editors have). If this seems a little confusing, try opening up minipov.c to see how the minipov message is made.



Compile **mypov.c** by opening a command window as you did before, **cd**'ing to the minipov3 directory and typing in **del mypov.hex** (or **rm mypov.hex**) and then **make mypov.hex**. This should create a new **mypov.hex** which you can upload to the MiniPOV by typing **make program-mypov** just like the way you programmed in the minipov.hex code before.

Automated solutions!

Don't want to poke at the code with wordpad? [Generate the table using Repulsor's handy website!](#) Just copy it into your mypov.c table.

[Or this one that will make largeimage.c with a custom text message](#), just rename it to **mypov.c** when you save it to use the above instructions.

If you're running windows, [Magician Soft has written their very own POV message generator!](#) Awesome!

SOFTWARE DESIGN

This guide was first published on Jul 17, 2013. It was last updated on Oct 16, 2018. This page (Customize) was last updated on May 04, 2015.



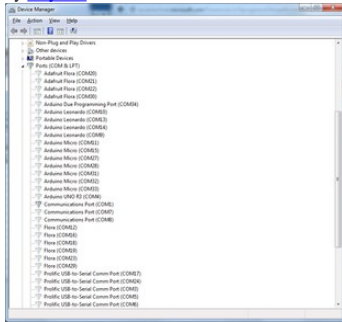
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This guide is for our new TTL serial camera module with NTSC video output. These modules are a nice addition to a microcontroller project when you want to take a photo or control a video stream. The modules have a few features built in, such as the ability to change the brightness/saturation/hue of images, auto-contrast and auto-brightness adjustment, and motion detection.

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