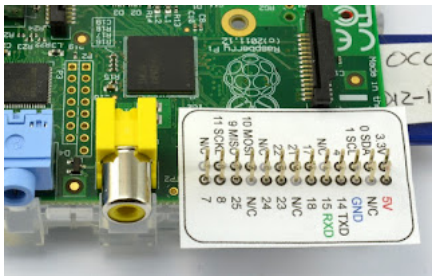
Dr. Monk's DIY Electronics Blog

Open Source hardware, Arduino, Raspberry Pi, micro:bit, BeagleBone, DIY electronic construction, reviews, projects, how-tos and recipes.

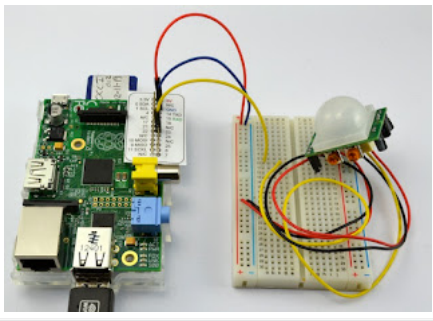
Monday, February 18, 2013

Raspberry Pi and Breadboard (Raspberry Leaf)

I thought I would share this little helper I have made to simplify using the Pi with jumper wires.



If you are using your Raspberry Pi with Breadboard, and you have lots of connections to make, then the Pi Cobbler from Adafruit is pretty neat. However, sometimes you only need to make a couple of connections and the Cobbler is overkill and a few Male to Female jumper leads will do just fine.



The drawback with using Male to Female jumpers direct onto the GPIO is that you then have to count down the pins trying to find the pin you need, because nothing is labelled. Matching a diagram of the pinout to the actual pins is not easy and mistakes can be made.

Enter the Raspberry Leaf! Okay, so its just a bit of paper, with all the pin labels on. The image for this is at the end. Just save it, print it out, and cut around the border. It's saved at 300 dpi.

To fit it onto the GPIO pins, I found it easiest to make the holes first by placing it over some breadboard and pushing a header pin through each hole in turn.

Pushing it all the way down to the bottom of the GPIO connector needs tome help from a plastic tool - or if you turn off your Pi and, use a small screwdriver. DON'T DO THIS WITH THE Pi POWERED UP!!!

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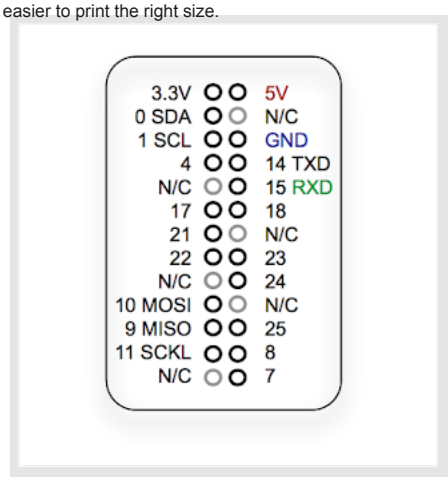
This has now become a permanent fixture on my prototyping Pi.

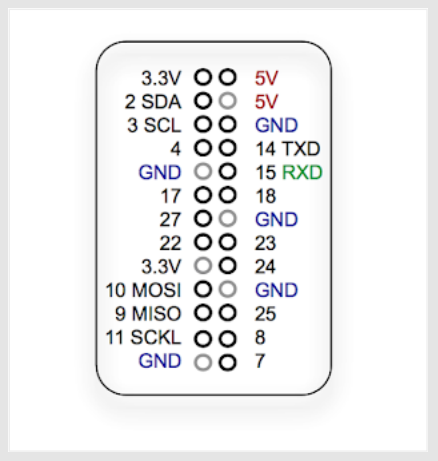
All the numbers refer to the BCM GPIO number, so if you are using the RPi.GPIO library then be sure to set the mode to BCM using the function *setmode*.

I hope you find it useful.

This is the template for the original R1 board saved at 300dpi - click it to open it in its own window. Also, here is a PDF version, that's hopefully easier to print the right size.



This is the template for the current R2 boards. PDF Version. Note that this was updated 20 Feb, 2013, as I had pins 2, 3 and 27 wrongly labelled!



BUY

If you would prefer to buy your Raspberry Leaves ready made, printed on durable glossy paper and ready cut and drilled, then you can buy them from my website (www.monkmakes.com).

About the Author

These are my books. Click on the image below to find out more about them.

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