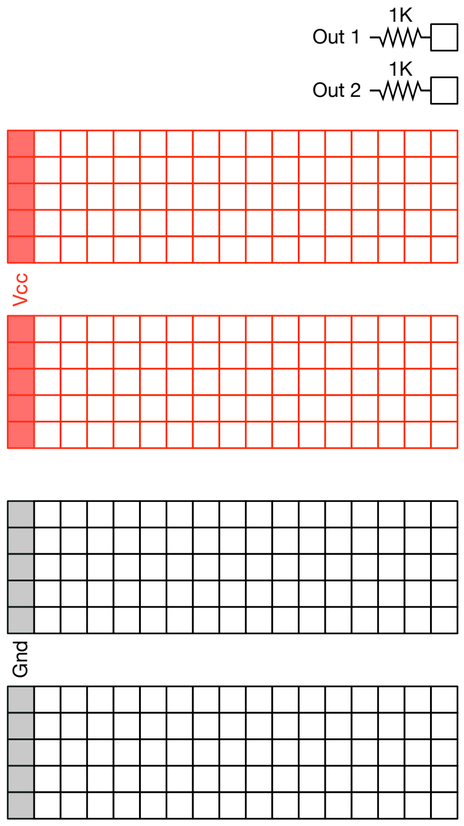
What is this?

*These are diagrams showing various ways to connect an **Arduino Nano Every** to your BRAEDBOARD for the purposes of using its three available serial ports, typically for Modular MIDI input and output. They're useful in conjunctions with firmware sketches such as **ENSEMBLE** and **MASTER,** which can be found in the **V2** subdirectory.*

NOTES

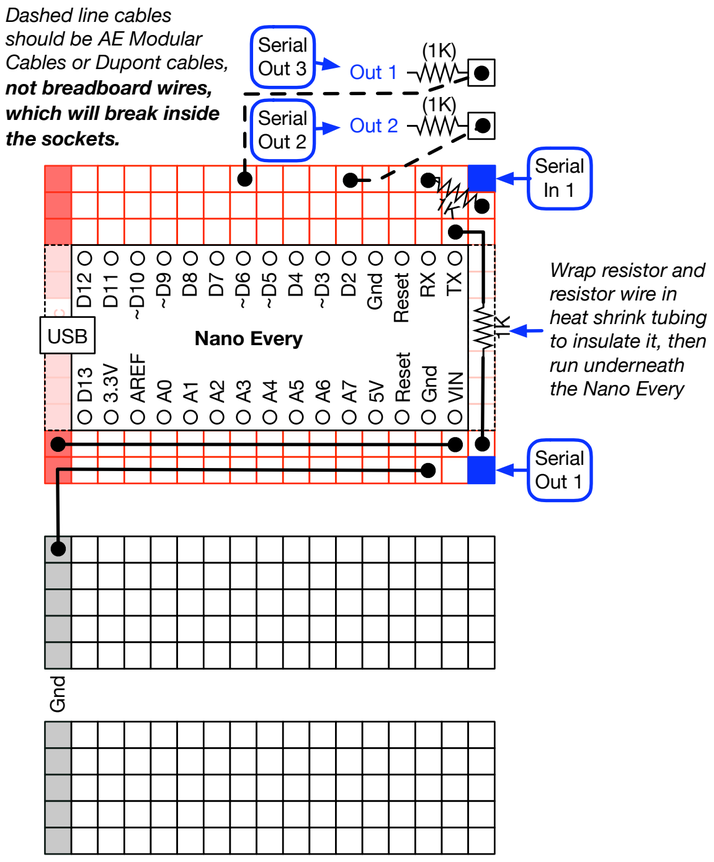
0. *It's very important to connect Serial Out 2 and Serial Out 3 to the provided BRAEDBOARD resistor sockets as shown because if you accidentally set an output pin on an arduino to ground, VCC, or to another pin, without an inline series resistor, you can fry it and potentially fry the entire board.*

1. *Serial1 and Serial2 have had resistors attached to them. These may not be necessary, as some Arduinos have built-in series resistors on the RX and TX pins. However I include them here to be careful as I don't want to fry your unit.*



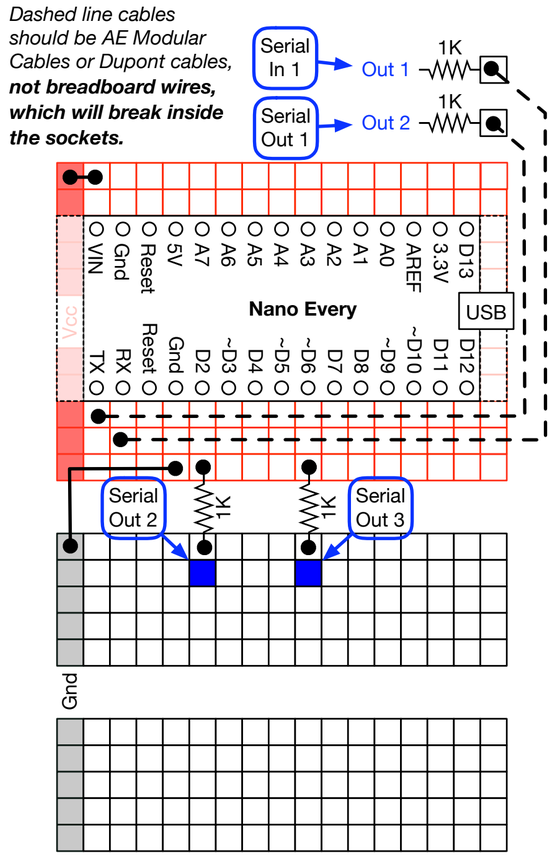
Empty BRAEDBOARD

Note the "Out1" and "Out2", which are sockets connected via 1K resistor to a socket below them.



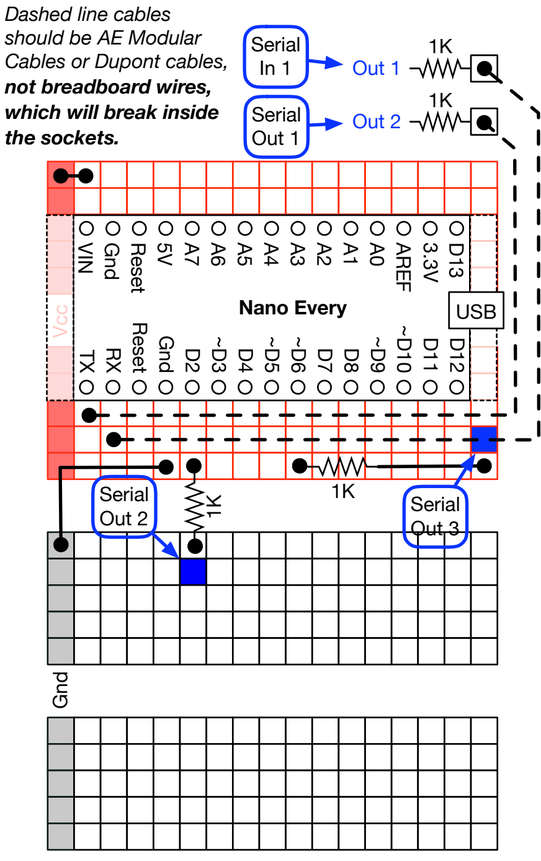
Configuration 1

This configuration requires some heat shrink tubing and care, but it is cleaner and doesn't use space on the lower breadboard.



Configuration 2

This configuration is easier to do but uses space on the lower breadboard.



Configuration 3

This configuration is a slightly different version of Configuration 2.

Configuration 1 (Additional Pins)

If you use Digital (D), be sure to include the resistor, or you could damage your Nano Every. Do not use A5, as it is used to get random seeds.

Configuration 2

If you use Digital (D), be sure to include the resistor, or you could damage your Nano Every. Do not use A5, as it is used to get random seeds.