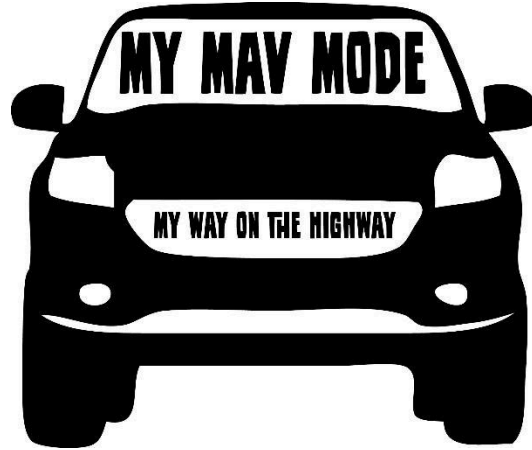




CAN Version

Installation Instructions

DISCLAIMER: MODIFICATIONS TO YOUR VEHICLE ARE DONE AT YOUR OWN RISK. I AM NOT RESPONSIBLE FOR ANY DAMAGE DONE TO YOUR VEHICLE AS A RESULT OF THE INSTALLATION OF THIS PRODUCT, OR ANY DAMAGES THAT MIGHT OCCUR WITH THE USE, MISUSE, OR FAILURE OF THIS PRODUCT.

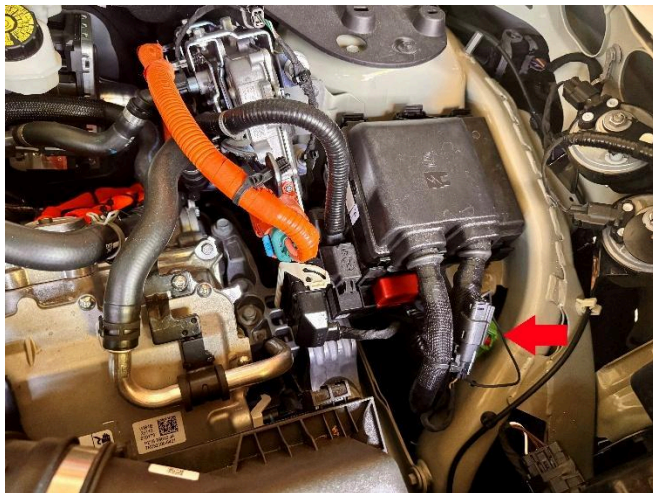
MYMAVMODE VERSION HISTORY: The original MyMavMode is great but requires tapping a wire in the center console that some people may not be comfortable with. MyMavMode-CAN works by accessing the CAN (Controller Area Network) directly, reading the drive mode and making changes with signals sent to the CAN. Although FORD dropped the ball giving us an ability to restore our preferred drive mode on startup, they did give a convenient way to access the CAN network next to the fuse box under the hood, making the installation of MyMavMode-CAN very easy! Thanks, FORD. Kinda.

- 1) Before working on any car electronics, ALWAYS disconnect negative terminal from 12V battery.

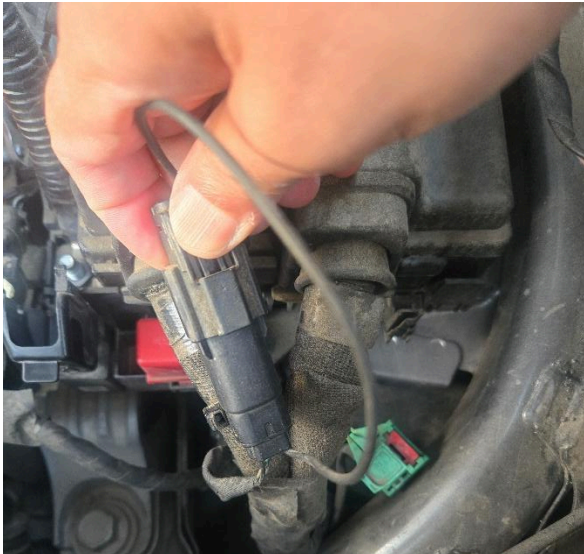
Using a 10mm socket, remove the negative terminal from the battery. In a Hybrid, this is under the rear seat on the passenger side, under the plastic panel. On an Eco boost, the battery is under the hood. Loosen the bolt on the top of the negative terminal and lift the terminal up off the battery. Place a piece of plastic between the terminal and the battery, as this tends to want to move back into place.



- 2) Open the hood, and locate the CAN network connector. This will be next to the fuse box on the driver side of the car.



- 3) Remove the cap on the CAN connector. To do this, depress the black tab and pull the cap off. Often there is a black tether wire and the cap can just dangle there once it is removed. Otherwise, store it somewhere safe (glove box).





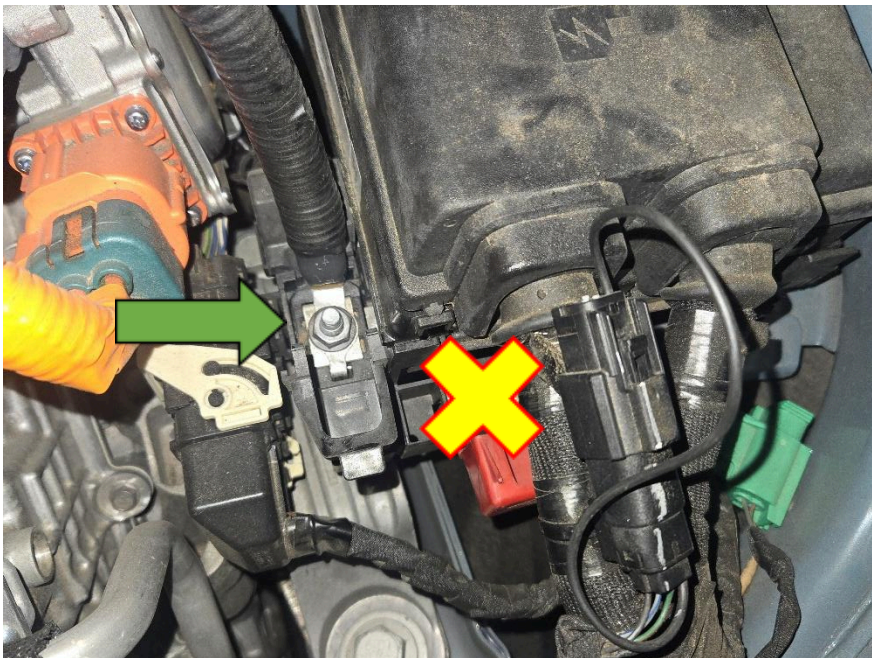
- 4) Insert the MyMavMode-CAN connector. It should clip right on. You can then press the red tab down toward the connector to lock it in place.



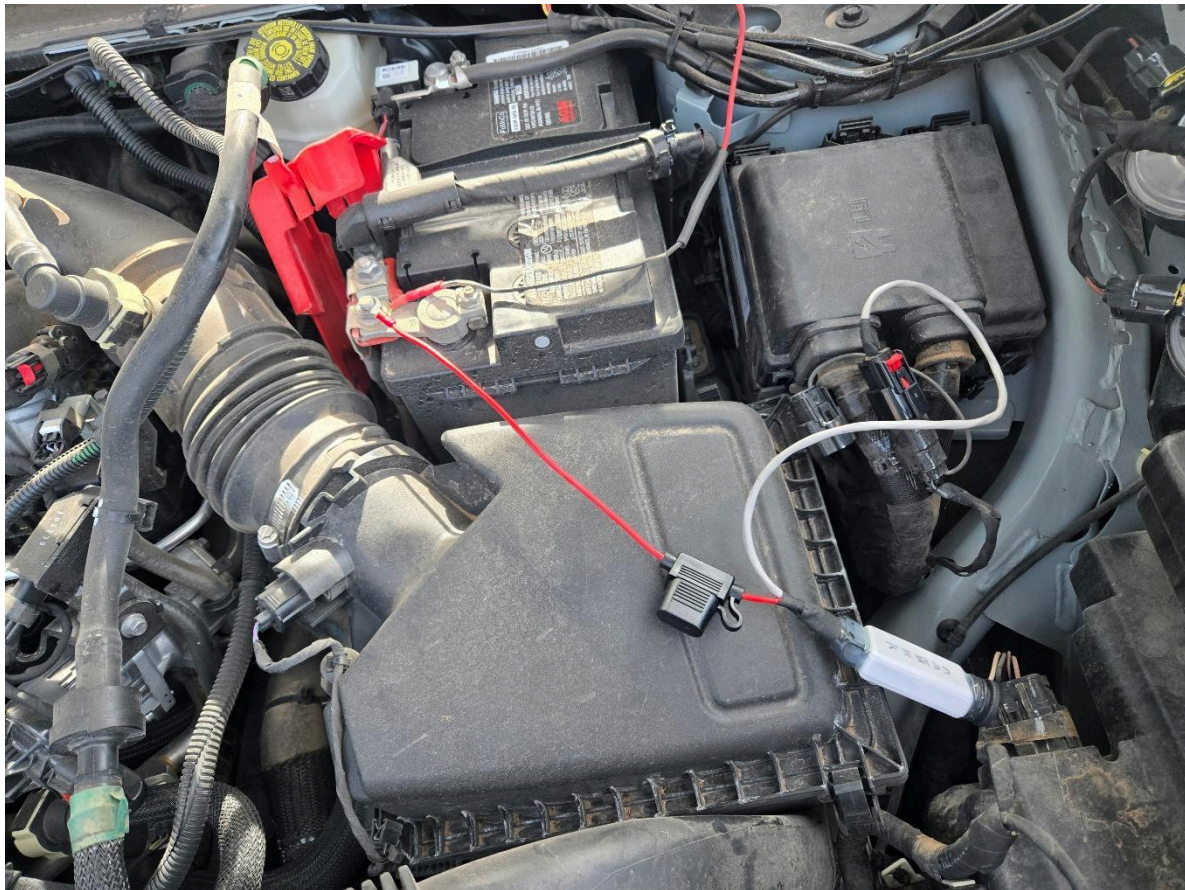
- 5) In the Hybrid model, lift up the black enclosure covering the positive terminal next to the fuse box. Do NOT USE the jump start terminal under the red cover.



- 6) Using a 13 mm socket, remove this nut. Again, do NOT use the jump start terminal under the red cap to power MyMavMode.



- 7) Place the ring terminal with inline fuse over the post, positioning the wire so that it will come out of the top (toward the windshield) and replace the nut. Tighten well. Close the cap over the nut and wire.
- 8) In the Ecoboost model, you will follow these same steps, but the power will be connected to the battery terminal here as shown, by removing this nut and replacing it over the red wire ring of MyMadMode-CAN



9) Secure MyMavMode

Using the supplied zip tie, secure MyMavMode to the wiring harness that the CAN connector plugged into.

10) Reconnect battery negative terminal

You are done with the connections. Good job! Reconnect the negative battery terminal and get ready to program your MyMavMode. The Green LED light on MyMavMode should be illuminated showing that the module has power. If not, don't worry, it might have already gone into auto-sleep mode, and will wake up with the next step when the car is turned on. Now we need to move onto programming.

PROGRAMMING MYMAVMODE

1) Connect to the access point.

With the wiring completed, turn the car fully on. Using a mobile phone or laptop, look for this WIFI connection

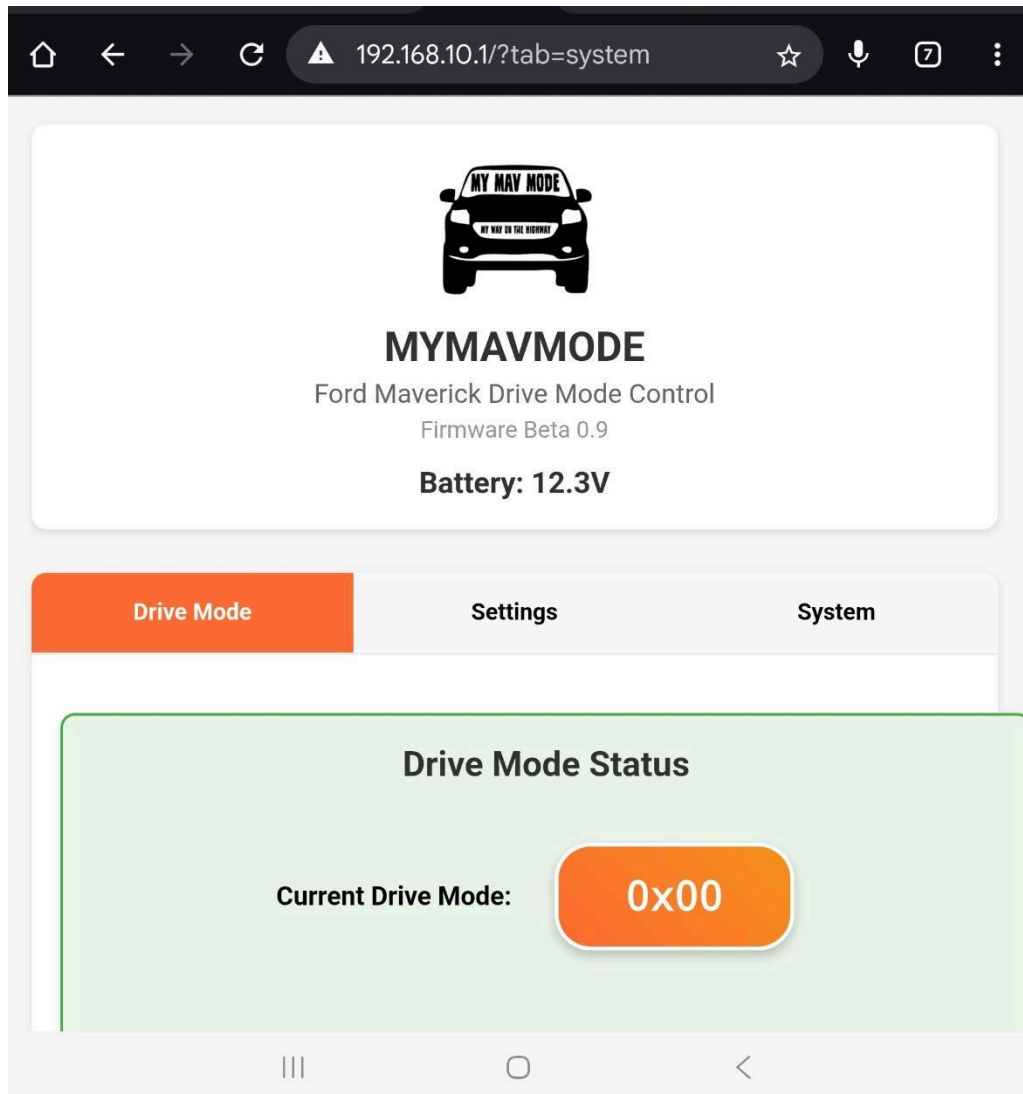
AP: MYMAVMODE

Password: @mymavmode!

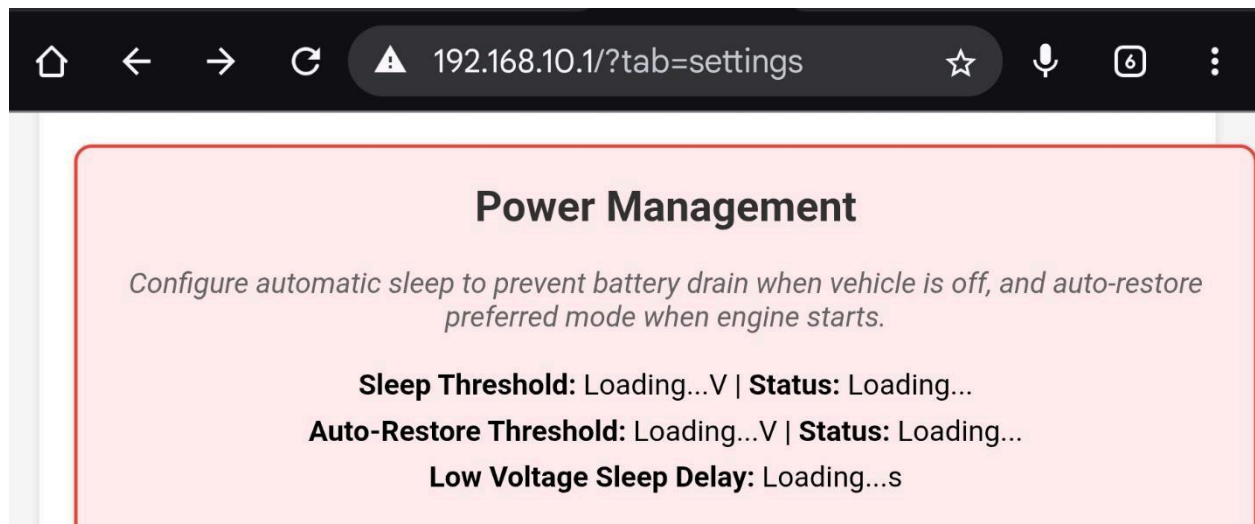
If you get a warning that no internet is available, just choose to stay connected.

2) On your web browser, navigate to the following IP address 192.168.10.1

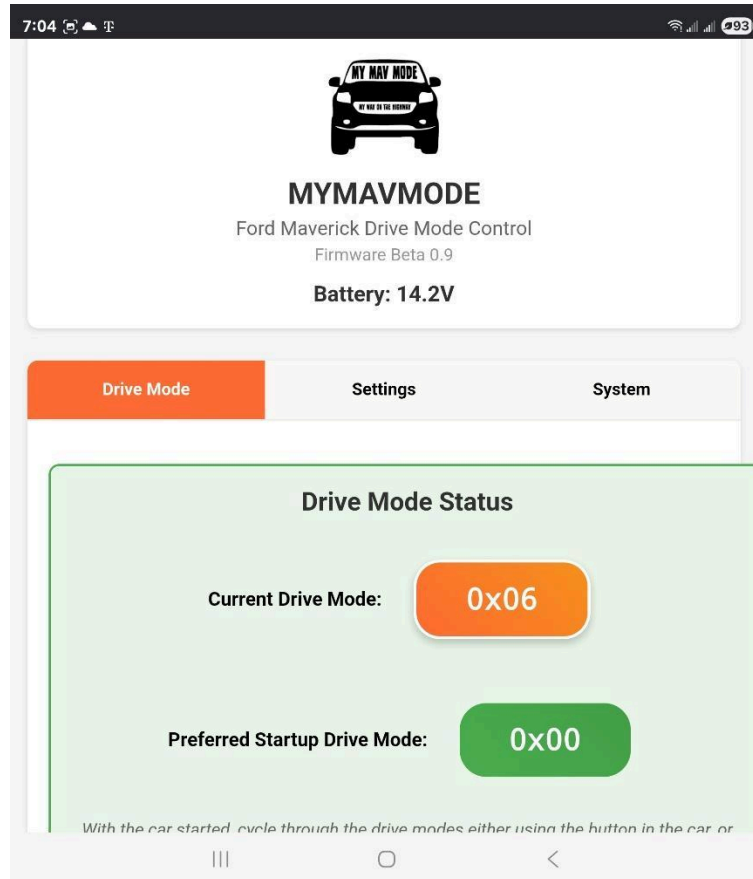
3) Click on the settings tab.



4) Note the voltage at the top of the display. With the car on, this should be over 14V. Scroll down to Power Management settings. Set the Auto-restore Voltage to be 0.6V lower than the battery voltage when the car is turned fully on. For instance, if you get 14.6V when the car is running, set the voltage to 14V. When MyMavMode detects anything over this voltage, it will automatically restore the preferred drive mode.



- 5) Now we need to set the sleep voltage. Change the Low Voltage Sleep Delay to 300s, to make sure we have enough time to get through the next steps without MyMavMode going to sleep.
- 6) Turn the car off and remove the key. The Voltage display on the top should drop to somewhere between 11-12.5 Volts. Add 1.0V and put this number in the Sleep Voltage field. For example, if the car battery sits at 12.3V when the car is off, put 13.3V in this field. When MyMavMode detects the battery drop below this threshold, it will go into sleep mode after the sleep voltage delay, preventing depletion of your car battery. (It will still pull a miniscule voltage, that might kill your car battery after 100-150 years).
- 7) You can keep the Low Voltage Sleep Delay at 300S (5 minutes after the car turns off) or you can reduce it. 30-60seconds works well.
- 8) Turn the car back on, FULLY. Click on the Drive Mode Tab. You will see two important values here, the Current Drive Mode and the Preferred Startup Drive Mode. Manually change the drive mode using the button in your car. With each mode change, within a few seconds you should see the Current Drive Mode Change. These are hexadecimal numbers that represent the way that the car's computer recalls each of the drive modes. Go to the mode that you want when the car starts (ie: ECO)



- 9) Press the button “Save Current Mode as Preferred Startup Mode.” You should now see that the Preferred Startup Drive Mode is the same as the Current Drive Mode.

*With the car started, cycle through the drive modes either using the button in the car, or the change mode button below. You should see the bits in the orange square changing. When you are in your preferred startup mode, click the button below to save this as your default startup mode when the car is started. **To test, change to any other mode, and click the Restore Saved Mode button to go back to your preferred mode. MyMavMode will automatically restore in this same manner when the car is turned on.***

Save Current Mode as Preferred Startup Mode

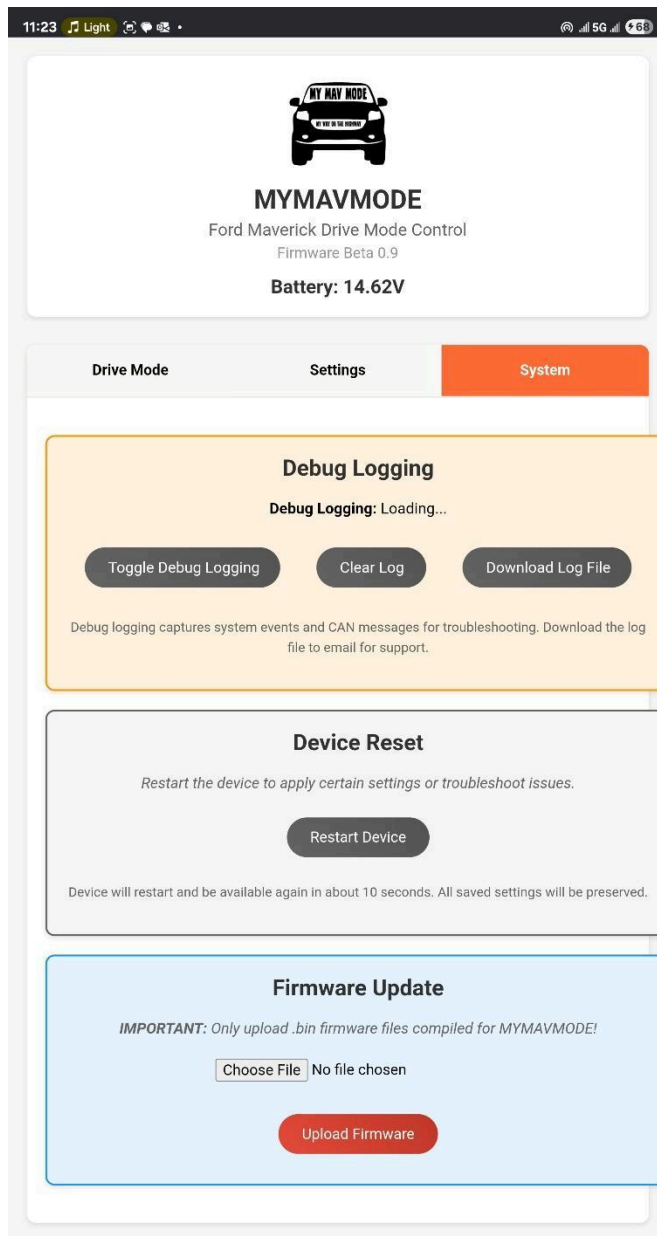
Restore Saved Mode

Change Mode Once

- 10) Change to any other drive mode either by pushing the physical button in the car, or by clicking the “Change Mode Once” button. Then, click the “Restore Saved Mode” button. Watch as MyMavMode changes back to your preferred drive mode for you.
- 11) Reset MYMAVMODE. In the System tab, you will find a “Restart Device” button. Click this and give MYMAVMODE 10 seconds to restart with all of your programmed settings.
- 12) Turn off the car and turn it back on. Before you even have time to clear all the warning windows, MyMavMode will start the process of changing drive modes to get back to your saved mode. It will do this every time the car is restarted. No more pushing that button ever again after this (unless you want to, of course). You are done! The next section is logging and troubleshooting, which hopefully you will never need to look at.
- 13) REMOTE START: If you use remote start, click the box to enable this.

LOGGING, FIRMWARE UPDATES, AND TROUBLESHOOTING

The System Tab gives options to save a debug log that can be downloaded and emailed to me if there are any problems. In addition to the device reset button, there is also a field to upload firmware updates if needed in the future.



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Questions? Email mymavmode@gmail.com