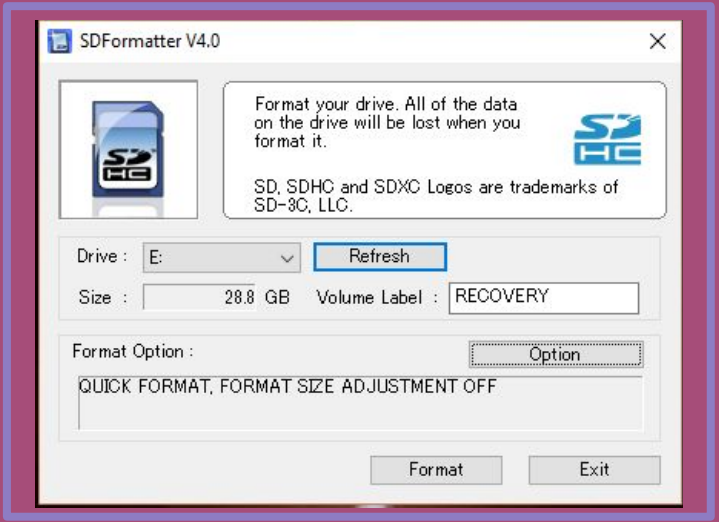
300 Dollar Food Computer MVP Software Guide

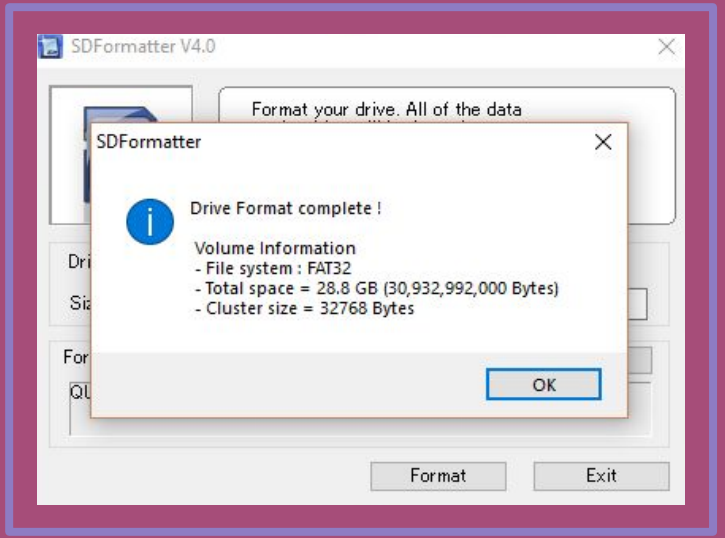
Required Materials

- Blank SD card (16gb or larger)
- Raspberry Pi
- Sensors installed on Raspberry Pi (needed for data collection to work)
- Computer Monitor (HDMI Port)
- HDMI Cable
- Keyboard / Mouse

1. Format SD Card

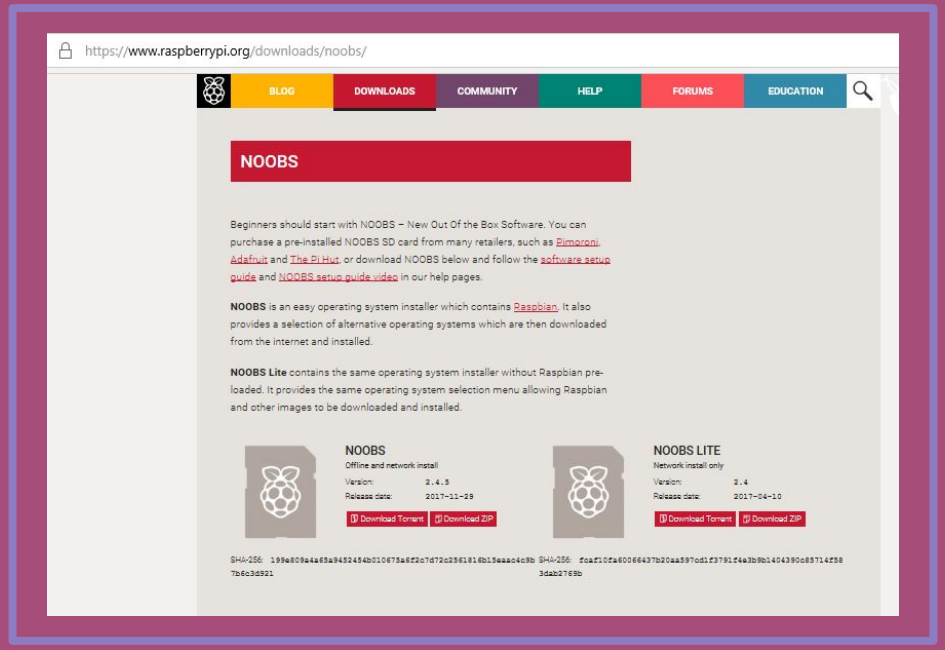
Start with a blank SD card (16gb or larger). Format the SD card. Use SDFormatter, available for download here: https://www.sdcard.org/downloads/formatter_4/index.html





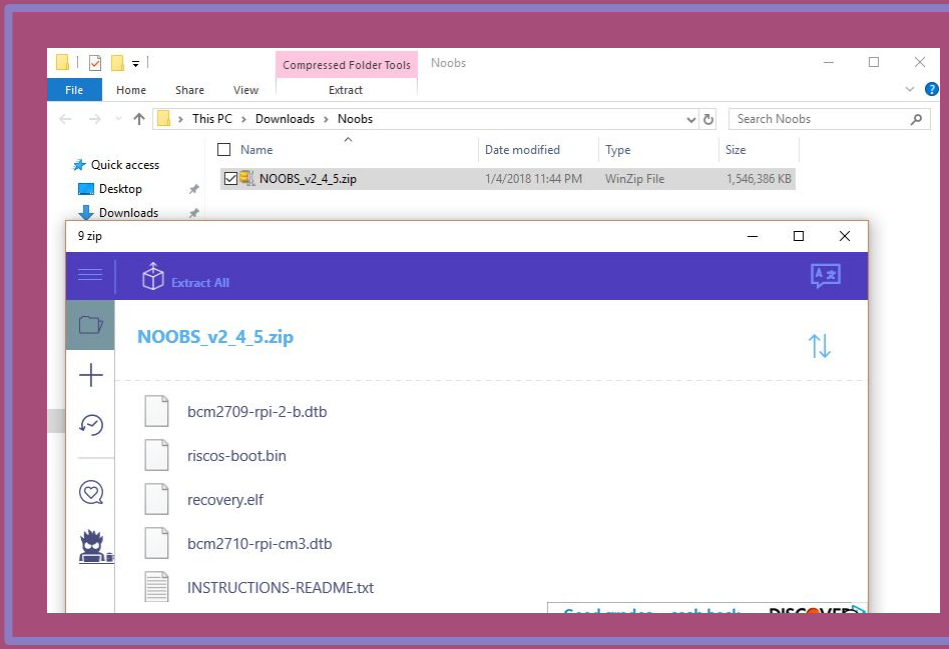
2. Download NOOBS

Download the latest Raspbian NOOBS. Download available here: https://www.raspberrypi.org/downloads/noobs/



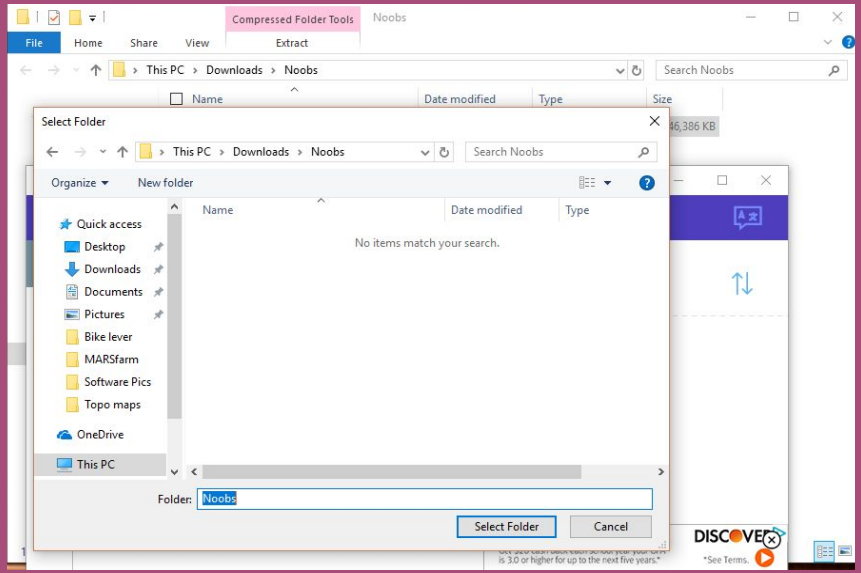
3a. Extract NOOBS

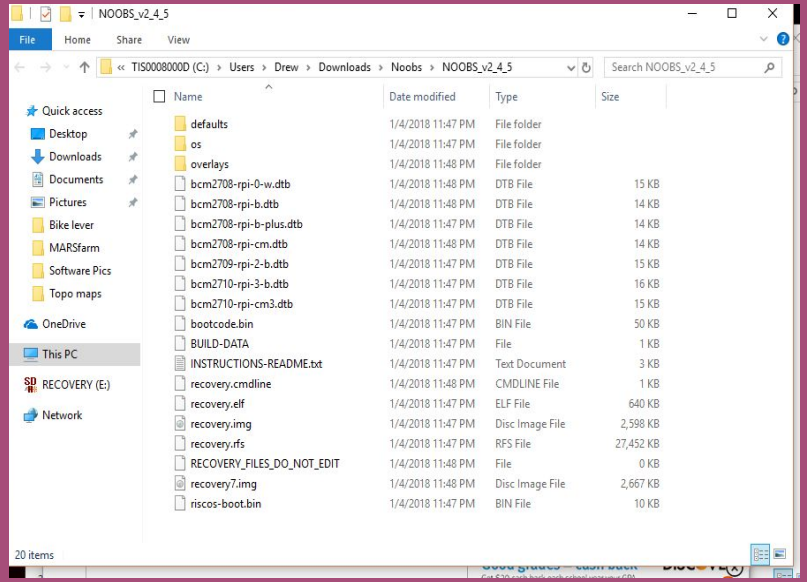
You will need to extract NOOBS from the zip file you downloaded.
Use the free compression software from Windows; 9zip



3b. Unzip NOOBS

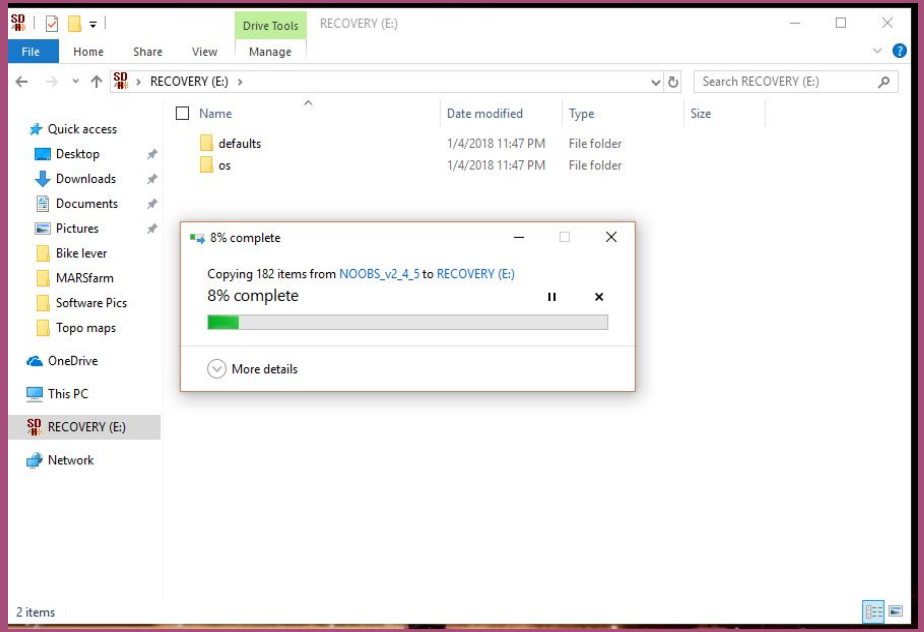
Create a folder within the Downloads folder so you can always find it later, and unzip the file there.





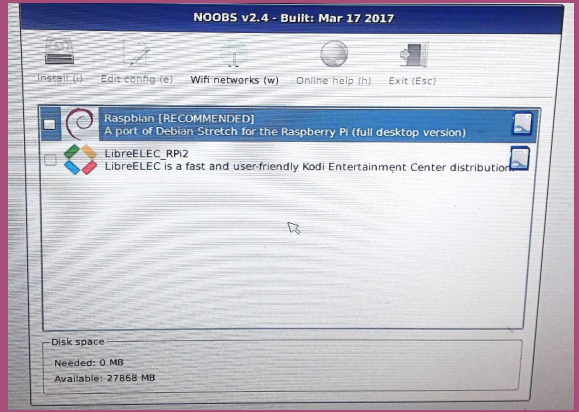
3c. Paste NOOBS Folder to SD Card

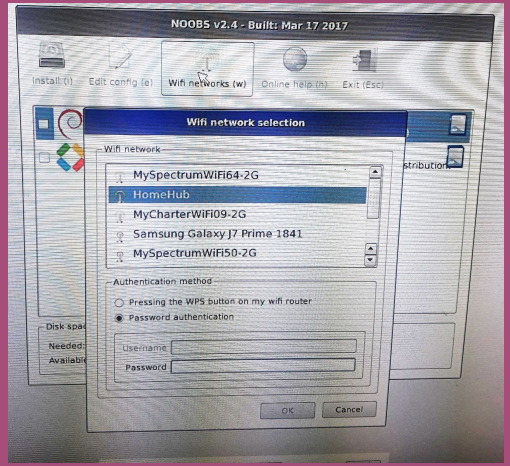
Finally, select everything in this folder, copy it, and paste it into the main directory of the SD card.



4. Connect NOOBS to Wifi

Insert the SD card into the Raspberry Pi and power it up.
When NOOBS launches, connect to your wifi.

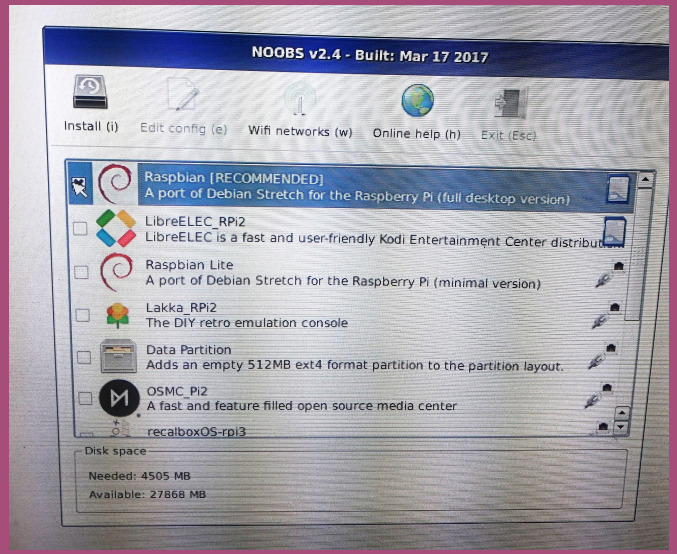


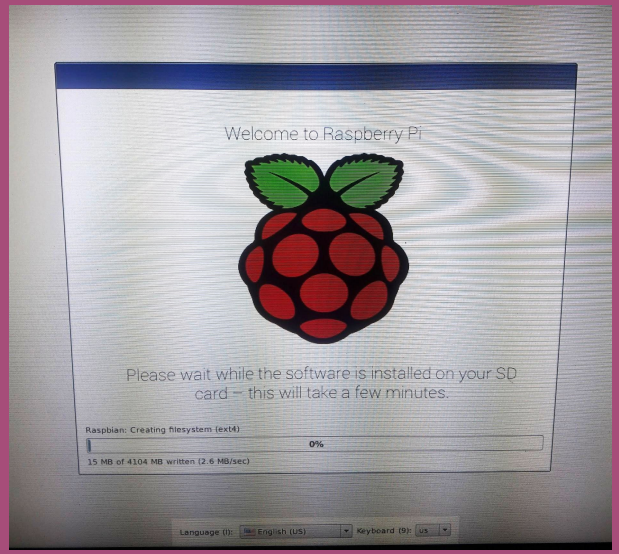


Note: the British Keyboard is the default. If you are not used to it, you might want to change it at the bottom when typing in your password.

5. Install Raspbian Stretch

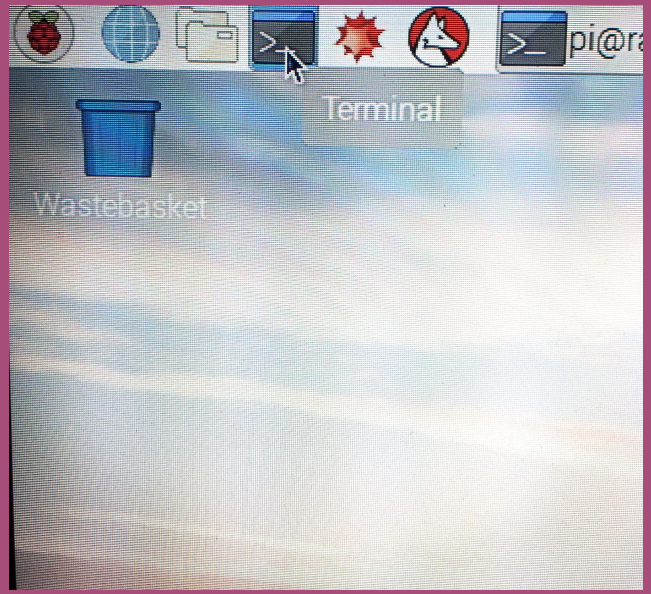
When the list of available operating systems updates from the internet, select Raspbian Stretch, and click install in top left corner.

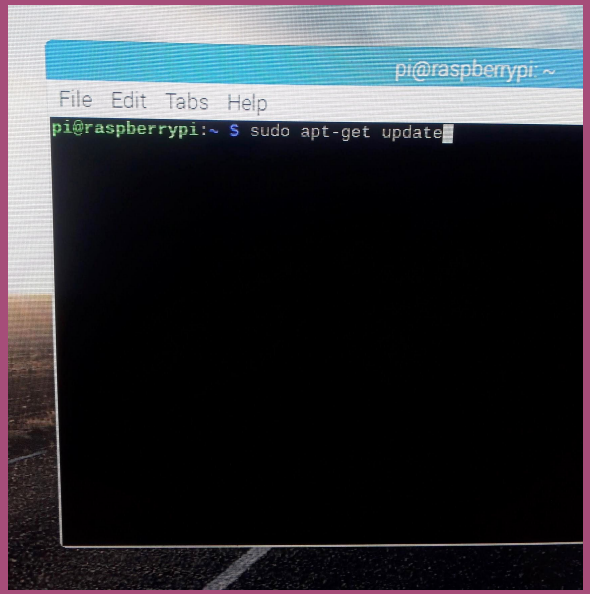




6. Update to the Latest Software

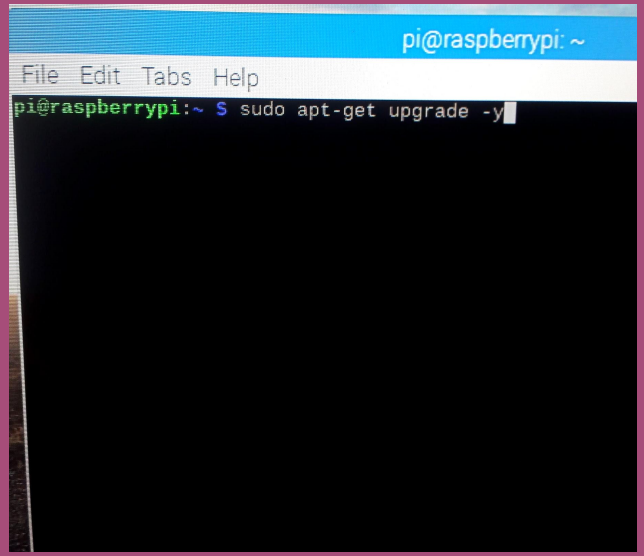
From the terminal, run: sudo apt-get update





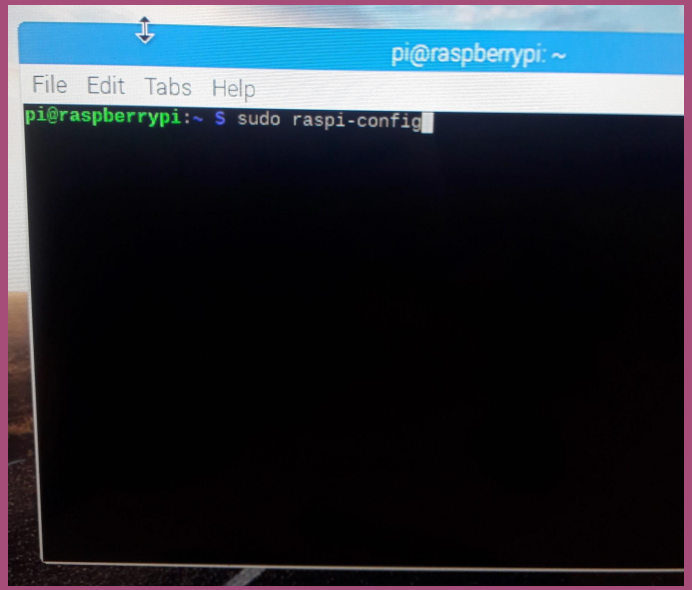
7. Upgrade Software

From the terminal, run: sudo apt-get upgrade -y



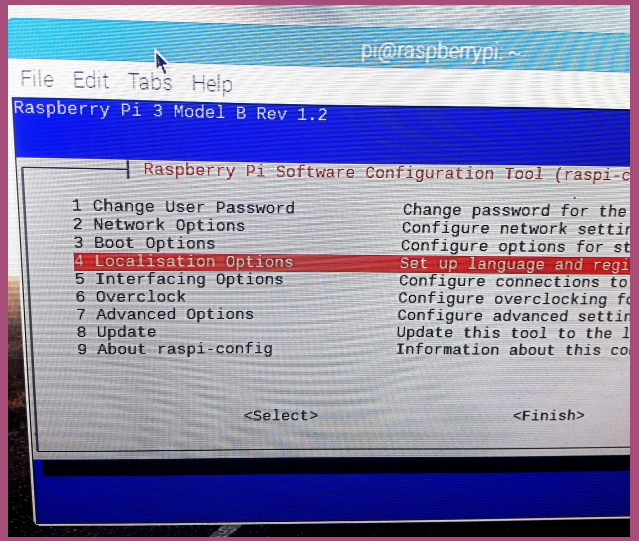
8. Configure to Your Needs

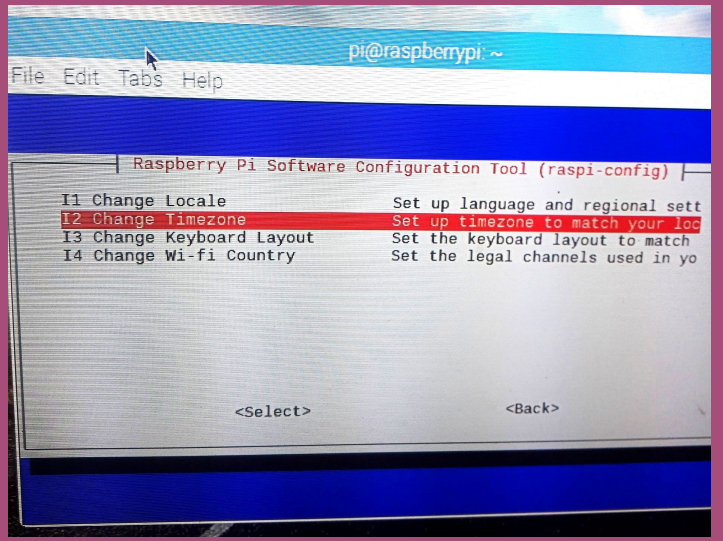
From the terminal, run: sudo raspi-config



9. Change timezone

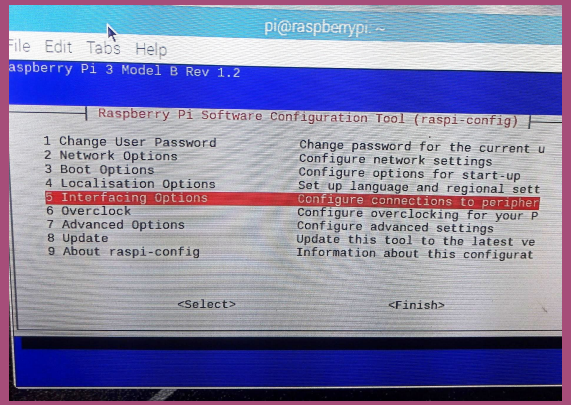
Under “4-Localization”, change the timezone to your country and area.
To navigate through menus use your keyboard's arrow keys.

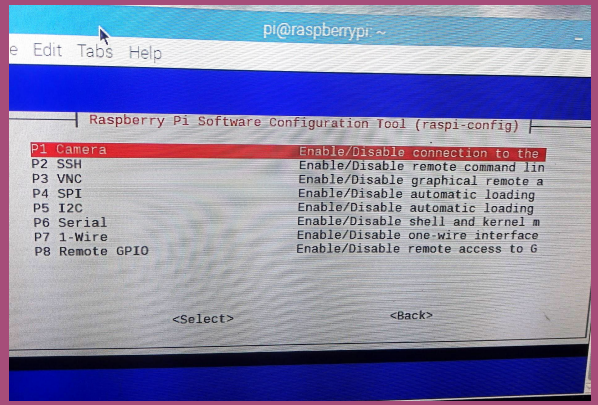


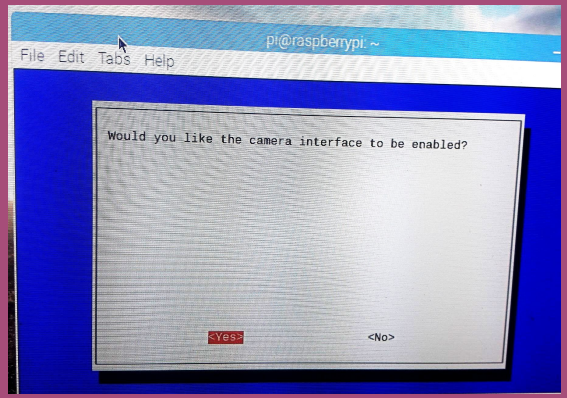


10. Enable Interfaces

Back in the main config menu, under “5-Interface”, enable Camera, SSH, I2C, and 1 wire.

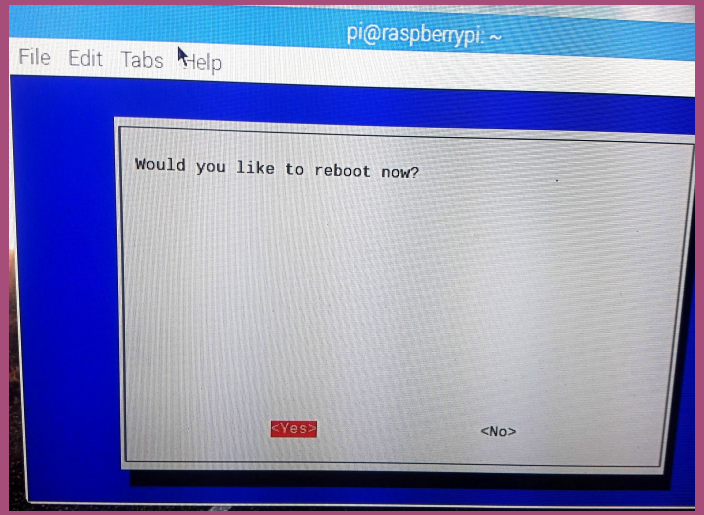






11. Finish & Reboot

In the config menu, hit “Finish” at the bottom right to exit, and reboot when prompted.

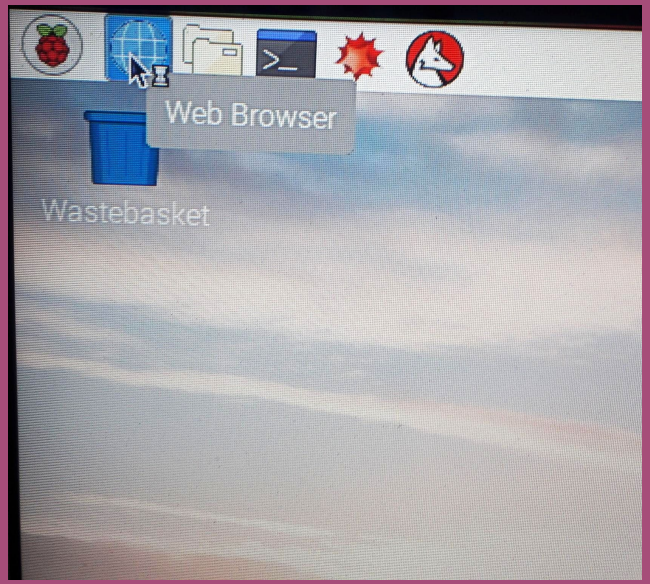


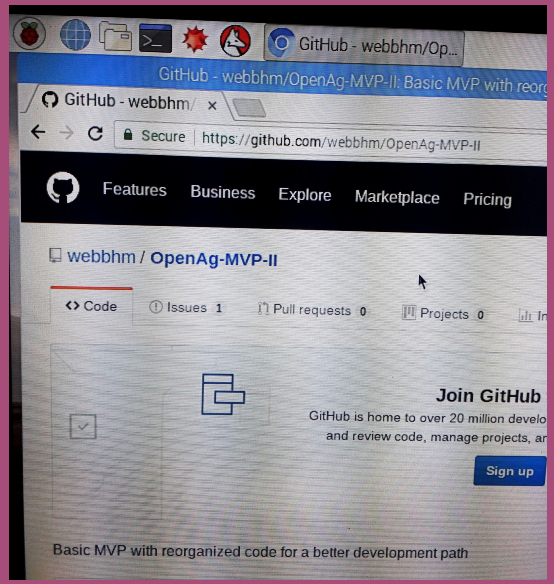
12. Get MVP Software

(Copy script to a new file)

In the browser, go to:

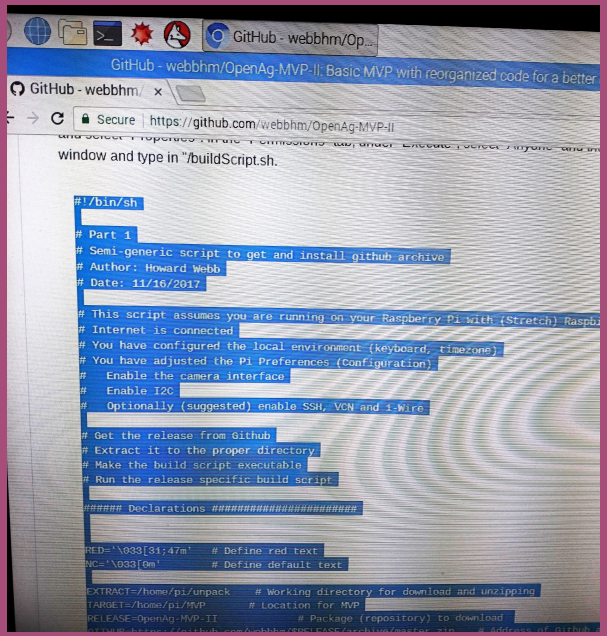
https://github.com/futureag/mvp

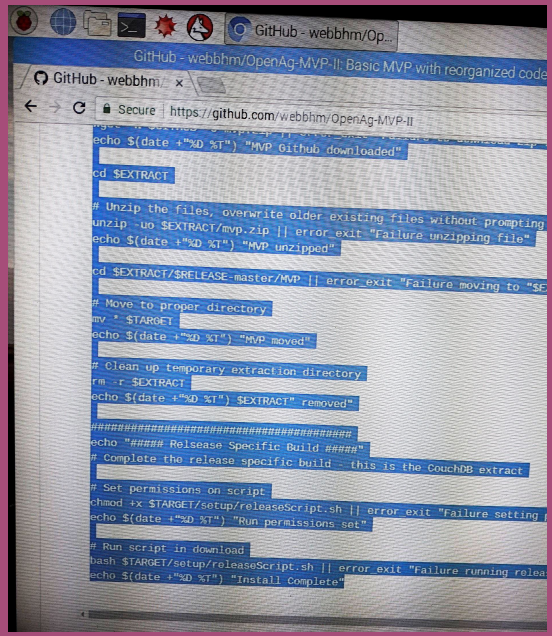




13. Copy Code

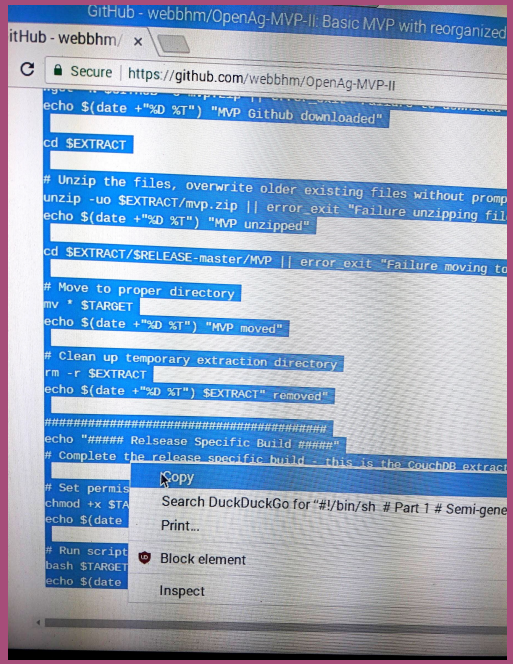
Scroll down the readme file on this page until you see a large block of code (it's indented, and has a lot of lines that start with "#".
First line: #!/bin/sh Last line: echo$(date +"%D %T") "Install Complete"





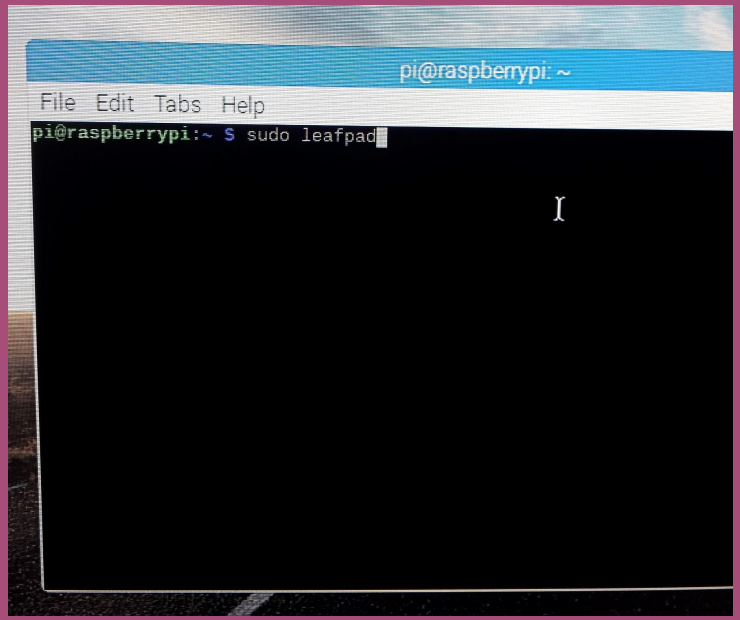
14. Copy Code

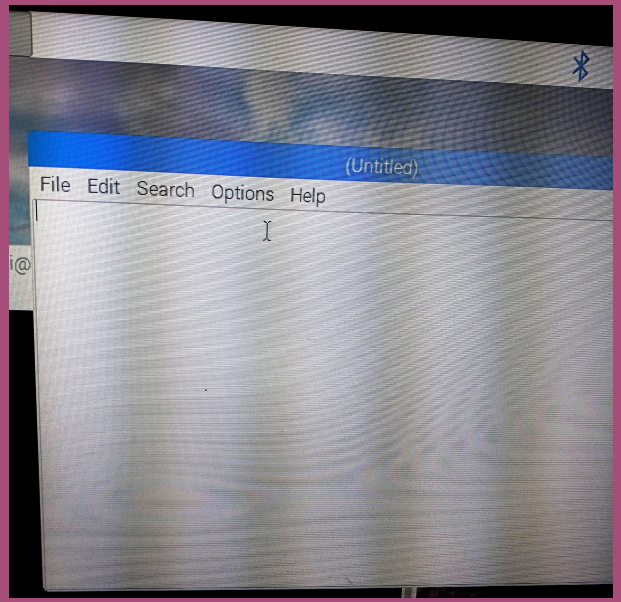
Copy the entire body of code (select all of it, right click, and click “copy”)



15. Open a File for Pasting

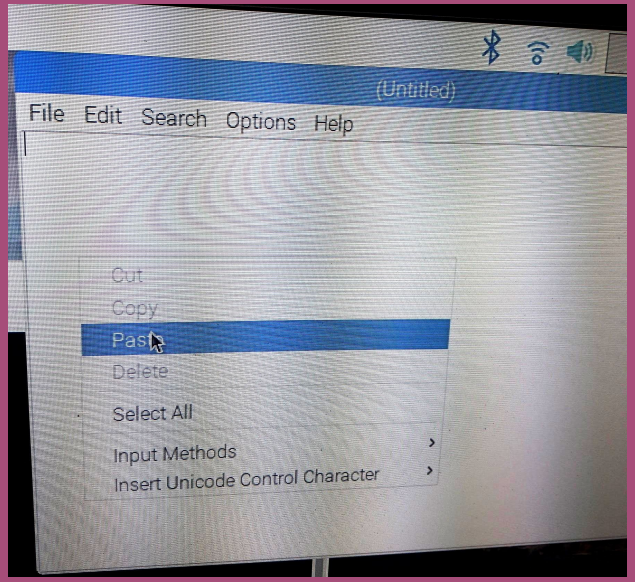
From the terminal, run:
leafpad

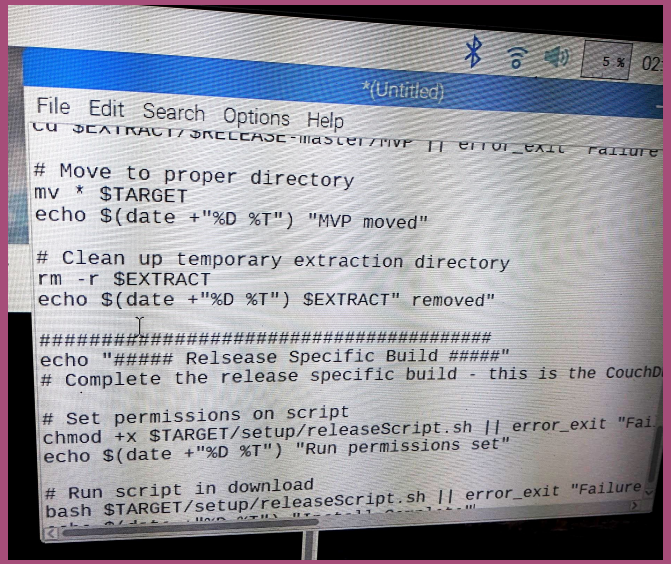




16. Paste Code

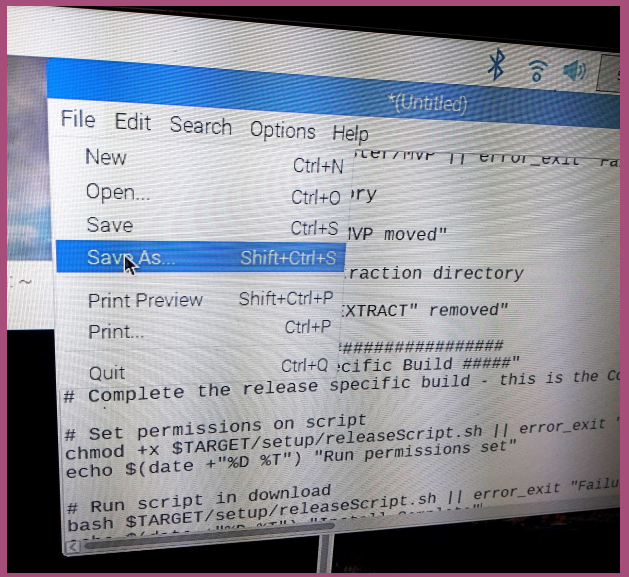
Right click in the body of the blank text document, and click “paste”

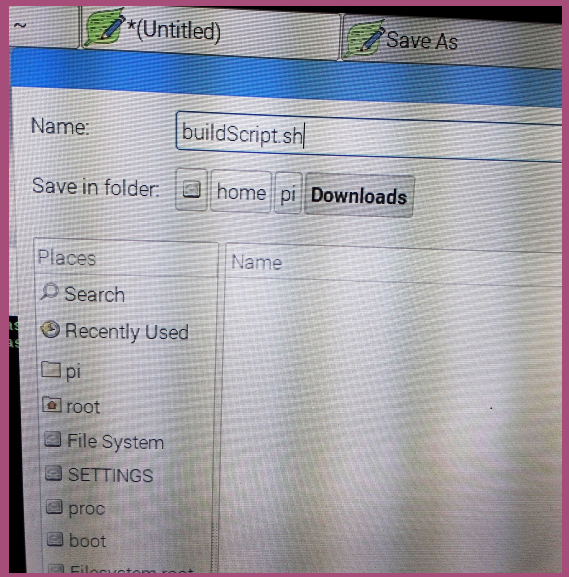




17. Save document

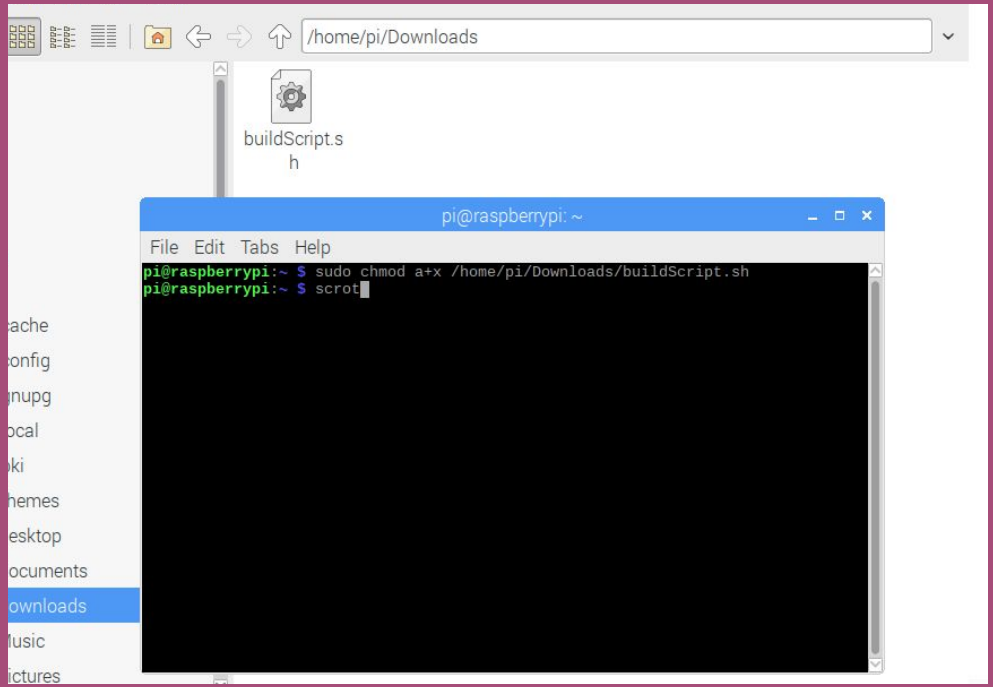
Save this document under the directory: /home/pi/Downloads
Name it: buildScript.sh
Save and exit that file





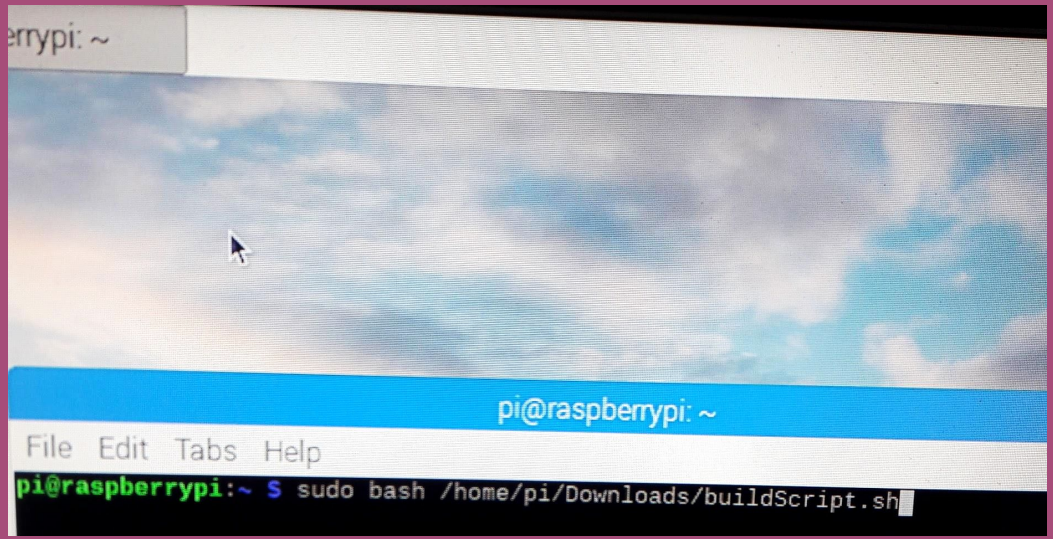
18. Grant Permissions

From the terminal, run:
sudo chmod a+x /home/pi/Downloads/buildScript.sh

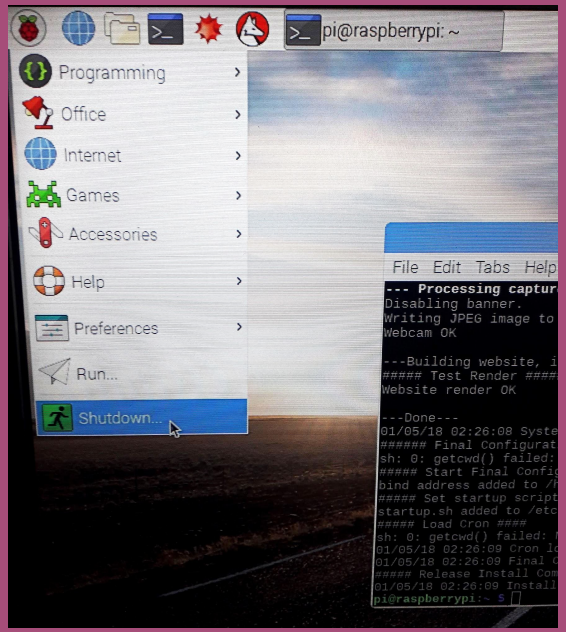


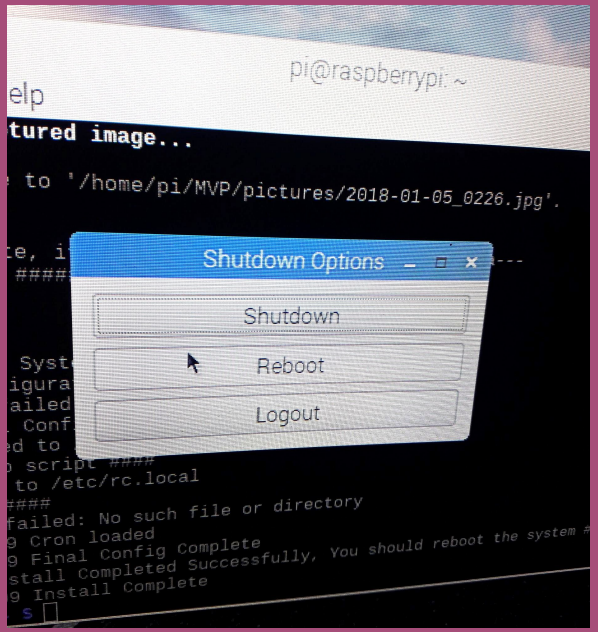
19. Run buildscript

From the terminal, run:
/home/pi/Downloads/buildScript.sh
Throughout the install you will have to type “y” to proceed



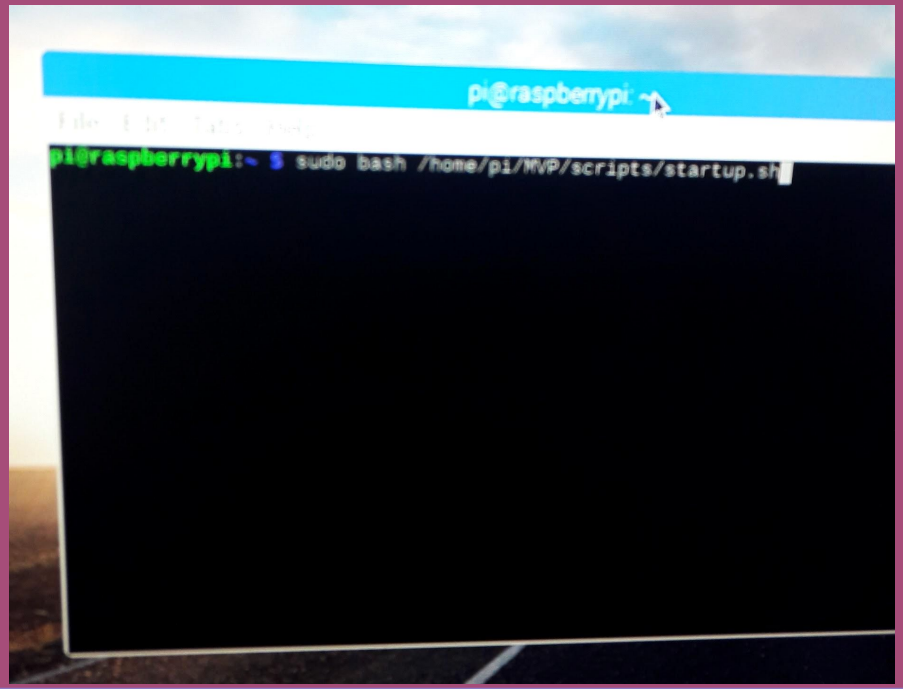
20. Reboot the Pi





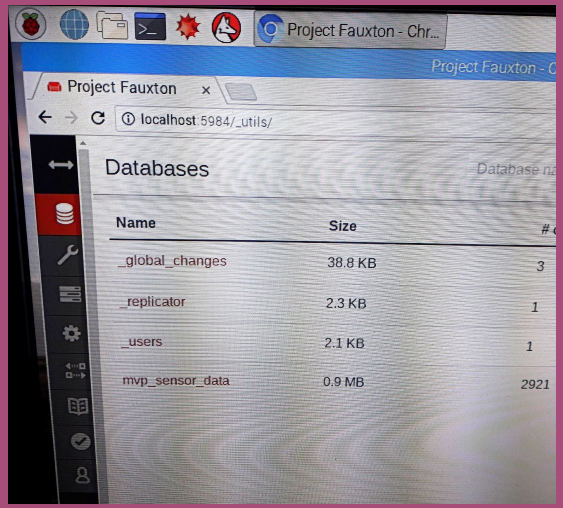
21. Run startup script

Next, run this script from the terminal:
sudo bash /home/pi/MVP/scripts/Startup.sh
(Currently you need to run this any time you boot the pi)



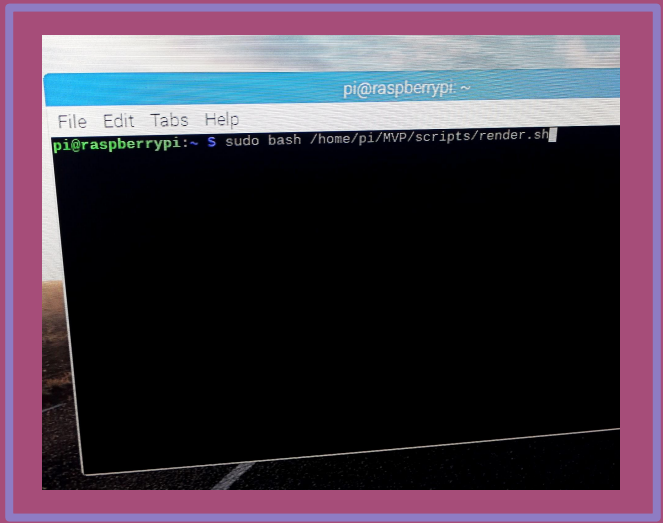
22. Verify CouchDB

Verify that CouchDB is active by typing into the browser: localhost:5984/_utils



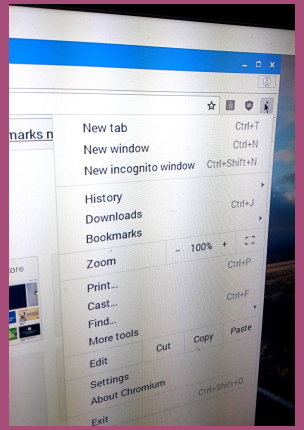
23. Run render scripts

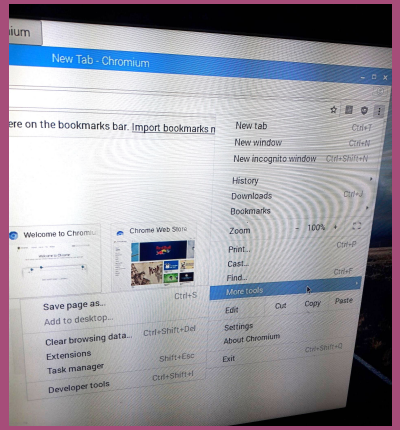
For the last script, run this from the terminal:
sudo bash /home/pi/MVP/scripts/Render.sh

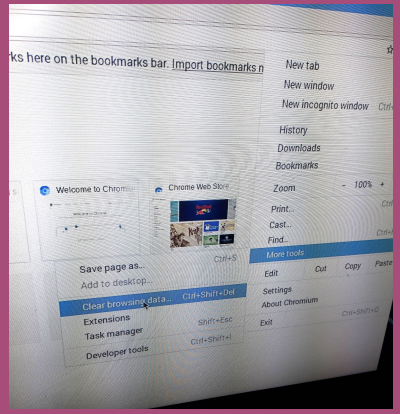


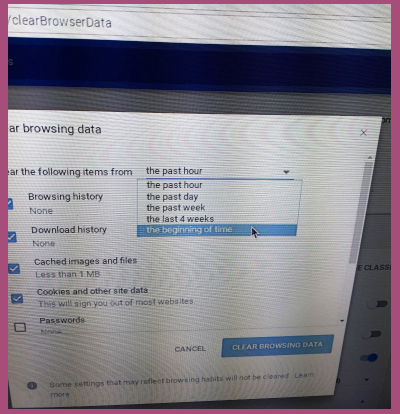
24. Clear cookies

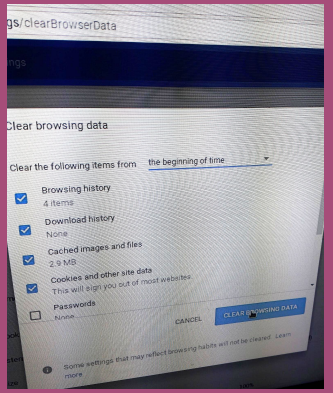
In the browser, clear your cookies





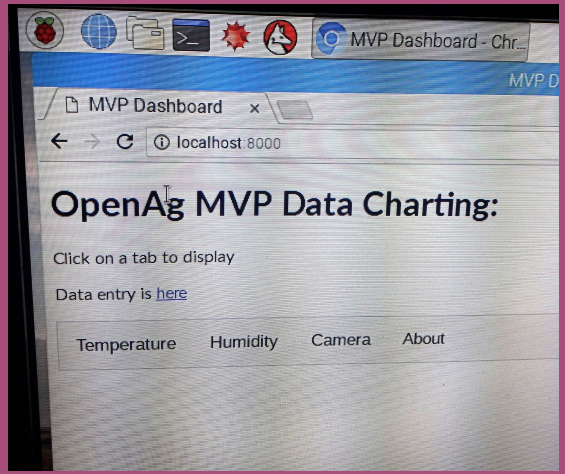






25. Launch the Dashboard

Verify your work by launching the Dashboard. In the browser, type in: localhost:8000



26. Enjoy your food computer!