How To Setup Raspberry Pi:

NOOBS Install (Recommend method)---------------------------

Windows:

1. Put your SD card into your laptop
2. Go to this link: <https://www.raspberrypi.org/downloads/>
3. Scroll to the bottom of the page and select NOOBS
4. Download that file and open it to find the destination of the files
5. Format your SD card to make sure there are no bad blocks. You can get the formatter here: <https://www.sdcard.org/downloads/formatter_4/>
6. Move those files to the SD card
7. Gather the following materials:
   1. USB wall adapter
   2. USB to Micro USB
   3. HDMI to HDMI Cable
   4. Monitor
   5. Power Switch
   6. Mouse
   7. Keyboard
8. *It does not matter what order you connect the materials* *to the Pi*
9. Plug the USB wall adapter into the USB to Micro USB
10. Connect the Micro USB to the Raspberry Pi Micro USB slot
11. After that plug the HDMI to the monitor and other HDMI into the Raspberry Pi
12. Turn on the Monitor and attach the Keyboard and Mouse to the Raspberry Pi
13. You might have to flip through the various HDMI sources on the TV to find the Pi
14. If the installation was successful then the Raspberry PI will show rainbow color square
15. When asked for what programs you want to download just select NOOBS
16. Then look for the wifi option and select Stevens
17. Enter your Stevens username and password
    1. The purpose for signing into the wifi is so you have access to Stevens Wifi
18. After you finish the wifi process, you should click the install button
19. When the installation finished you should set up your SSH
    1. Follow the instruction on this document: <https://docs.google.com/document/d/1R_rZ6-wgy2tdrWIU7KneVxh0R55HUP-KCLNCbCFHkZI/edit?usp=sharing>
20. After that you want to download necessary packages and files:
    1. Type the command into the Pi terminal: **sudo apt install -y gcc gdb openssh**  
       [please verify which packages you installed on your computer]
21. To get the emacs editor:
    1. Type the command into the Pi terminal: **sudo apt install -y emacs**
    2. Under the current directory containing professor Kruger’s setup find directory ***env***
    3. Download the file: emacs.em
    4. Type the command into the Pi terminal: mv ~/Downloads/emacs.em ~/.emacs
22. Now your Raspberry Pi is ready

Raspbian Install--------------------------------------------------------

1. Put your SD card into your laptop
2. Go to this link: <https://www.raspberrypi.org/downloads/>
3. Scroll to the bottom of the page and select NOOBS
4. Download that file and open it to find the destination of the files
5. Format your SD card to make sure there are no bad blocks. You can get the formatter here: <https://www.sdcard.org/downloads/formatter_4/>
6. Move those files to the SD card
7. Gather the following materials:
   1. USB wall adapter
   2. USB to Micro USB
   3. HDMI to HDMI Cable
   4. Monitor
   5. Power Switch
   6. Mouse
   7. Keyboard

* *It does not matter what order you connect the materials to your Pi*

1. Plug the USB wall adapter into the USB to Micro USB
2. Connect the Micro USB to the Raspberry Pi Micro USB slot
3. After that plug the HDMI to the monitor and other HDMI into the Raspberry Pi
4. Turn on the Monitor and attach the Keyboard and Mouse to the Raspberry Pi
5. You might have to flip through the various HDMI sources on the TV to find the Pi
6. Raspbian should boot up and now you will now want to set up the wifi
7. During initiation setup, Stevens wifi might not be available so you can also use the linuxlab wifi
   1. Passphrase: **raspberry\_b123**
8. If you don’t want to use LinuxLab wifi you can set up the Pi as a media device
   1. Type this command into the Pi terminal: **sudo ifconfig**
   2. Look for the **ether** and that will be your Mac address
   3. Go to this website to setup your Raspberry Pi on Stevens Media: <https://clearpass.stevens.edu/guest/auth_login.php?target=%2Fguest%2F>
   4. Log into this website with your Stevens Credentials
   5. Click Create
   6. Enter the Mac Address, Device Name, Account Activation, and any notes
   7. Accept the Terms of Use and Create Device
   8. If you have any trouble with this process look at this link: <https://sit.teamdynamix.com/TDClient/KB/ArticleDet?ID=2228>
   9. When connecting for the first time to Stevens Media on the PI: use the following phase: **Stevens1870**
9. When the installation finished you should set up your SSH
   1. Follow the instruction on this document: <https://docs.google.com/document/d/1R_rZ6-wgy2tdrWIU7KneVxh0R55HUP-KCLNCbCFHkZI/edit?usp=sharing>
10. After that you want to download necessary packages and files:
    1. Type the command into the Pi terminal: **sudo apt install -y gcc gdb openssh**  
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    1. Type the command into the Pi terminal: **sudo apt install -y emacs**
    2. Under the current directory containing professor Kruger’s setup find directory **env**
    3. Download the file: emacs.em
    4. Type the command into the Pi terminal: mv ~/Downloads/emacs.em ~/.emacs
12. Now your Raspberry Pi is ready