**Quick Start & set up Jetson Nano**

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* This is a quick instruction which is running and is the basic start the Jetson Nano by end of the “Basic-motion” example in <github.com/NVIDIA-AI-IOT/jetbot>
* Here, it is tried to keep the minimum amount of configuration on both Jetsen Nano, and *Jupyter Notebook* requirement.
* **Step 1: Set up Jetson Nano**
* Go to the
  + < https://github.com/NVIDIA-AI-IOT/jetbot/wiki/software-setup#step-1---flash-jetbot-image-onto-sd-card >
* Download “the expandable JetBot SD card image **jetbot\_image\_v0p4p0.zip**” on your local system
* Format the micro-SD card and flash the downloaded file on you micro-SD card
* Insert the micro-SD card in the Jetson Nano
* Connect the Jetson Nano (JN) to your monitor, Keyboard, and mouse
* Then power JN up either with the power wall, USB or built in batterie
* Let it to completely to power up
* Open a terminal from its GUI (Click on the first icon on the left top corner of the monitor, and search for terminal)
* Write down the name and version of the JN shown in the terminal
* Type “*ls*” to found out about directories and files which are pre-loaded on the system
* Type “*cd Notebooks*” and the “*ls*” to found out about directories and files which are pre-loaded on the system
* Type “*cd*” to back to the root
* Type “*free -m*” to see the available SWAP memory (by default must be about earthier one or two GB)
* However, as advised, you will need to expand it to 4 GB
* For this you need to follow another instruction that you can find in this link:
  + - < https://help.ubuntu.com/community/SwapFaq >
    - I do not advice to do it now.
    - If you decided to do it, you must remember to change 1g and 1GiB everywhere is your cods from this section “How do I add a swap file?**” to the 4g and 4GB**
    - I done this part and it is time consuming and so sensitive. Please take extra care
* If you complete the section reboot your system
* Type again “*free -m*” to make sure that SWAP memory changed to the about 4 GB
* **Step 2: Check the camera is connected**
* Type “nvgstcapture-1.0” in JN terminal and click enter
* New box must be opened displaying the camera looking to the object
* Type “Ctrl c” to exit the camera and close the box
* **Step 3: Connect to wi-fi**
* Click on the internet icon (wi-fi icon) to open the dialog box
* Choose the available and trustable internet in your home/office
* After connection to wi-fi, click on “internet information” in the same wi-fi icon and write down the IP address
* **At the same time, make sure “PiOLED” screen on your JN is on and displaying the IP address**
* **Do not forget the username and password for now is “jetbot”**
* Open the particularly useful search engine named “Cromium” internet browser from the main widow of the JN operating system
* This will need the JN password to be able to get into the browser
* If you need you can create an account or sign in
* Shutdown your JN from the top right coroner in your monitor and discount your JN from monitor, keyboard, and mouse
* **Step 4: JN software setup**
* Turn on JN using any kind of power and let it to boot completely till you can see the PiOLED is on and with IP address on it
* At the same time, you can start with the other pc or laptop
* Open an internet browser and go to the link as bellow:
  + < https://github.com/NVIDIA-AI-IOT/jetbot/wiki/ >
* In the page click on the “Software setup from the list in right side of the page.
* Go to step 5 section
  + Now you need to open Jupyter Notebooke as follow:
    - Remember the JN ip address and port “8888”
    - You need to type “**192.168.2.58:8888**” in the commend line you the browser and enter (this is the exact IP address of my NJ which is running in my home to not give it to anybody please for now
    - For the first time to login to “Jupyter Notebooks” you need to input JN password which is “jetbot”
      * Now open a terminal here. (To open a terminal no matter to use Jupyter terminal, SSh, ms-commend line). I used all different just is the matter of connection to JN
    - It is easier and quicker to use Jupyter Terminal
* Start running step 5 which you have already have it in your internet browser.
  + Type and run just following code and run them one by one in the terminal
    1. git clone <https://github.com/NVIDIA-AI-IOT/jetbot>
    2. cd jetbot
    3. sudo python3 setup.py install
* At this stage this all you need to start the firs example, no need to add any more code and run
* **Step 5: Run the first example named \_Basic-Motion”**
* Go to this link:
* < https://github.com/NVIDIA-AI-IOT/jetbot >
* Click “notebooks” directory
* Click “basic\_motion” directory
* Double click on “basic\_motion.ipynb” to be open
  + Make sure your Jetbot is in a safe area
* **Follow all the steps**
* **AND**
* **Run and enjoy moving you Jetbot**

**Once more time:**

**This is the first draft.**

**It must be worked with no issue.**

**If the is anything wrong or any issue pass it to me, please**

**Wait for the second draft and running next example**

**Good luck and hope to find this are helpful**