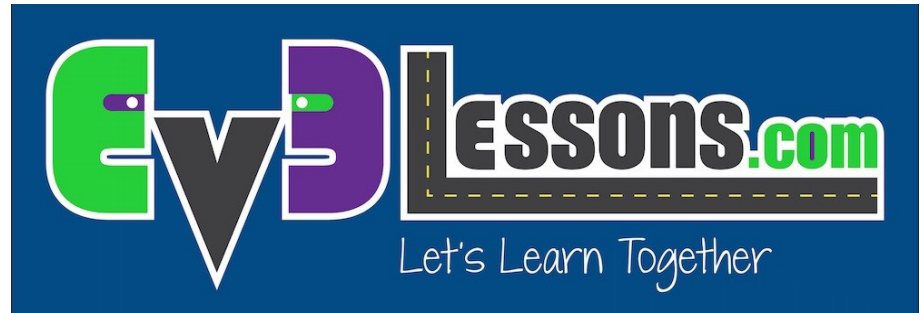
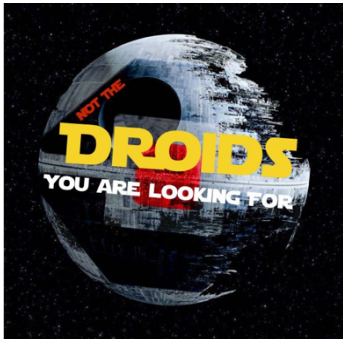


# Bonus EV3 Programming Lessons



## Adding Additional Blocks (Including Third Party Blocks)



By Droids Robotics

# Adding Official LEGO Blocks

- If you installed the Home Edition of the EV3 Software and later want to add the Gyro and Ultrasonic or other Blocks you should follow the steps on pages 4 and 5
- The link to find the blocks: <http://www.lego.com/en-us/mindstorms/downloads>

## EV3 SOFTWARE BLOCK DOWNLOAD (PC/MAC)

- ⬇ Energy Meter Block
- ⬇ Gyro Sensor Block
- ⬇ Sound Sensor Block
- ⬇ Temperature Sensor Block
- ⬇ Ultrasonic Sensor Block



# Adding Third Party Blocks

- Third Party Blocks are non-LEGO blocks to control non-LEGO sensors and other electrical elements such as the PixyCam and the PSP-Nx Combo with Wireless Controller
- This will allow you to use the new sensor in wait blocks, switches, loops, and more
- These blocks are found on the individual manufacturers' site (e.g. Mindsensors, Dexter Industries, etc.)





# Step 1: Download Block


- Download the necessary block online from the correct location (either from LEGO or the Manufacturer of the third party sensor)
- Sometimes the file will be zipped. You will need to unzip the file before proceeding


Software Libraries and Drivers


Example from Mindsensors.com


  
EV3 Block


  
EV3 Sample


  
EV3 Tribot Program


  
NXT-G Block


  
NXT-G Sample


  
NXT-G Tribot Program


  
NXC Library and Sample

  
RobotC (4.28+) Drivers

  
RobotC Demo


  
LelOS

  
LabVIEW

  
LabVIEW Demo

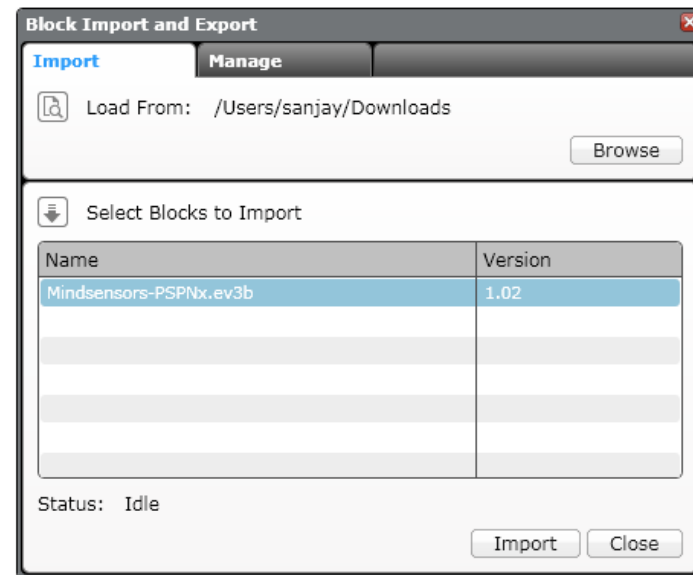
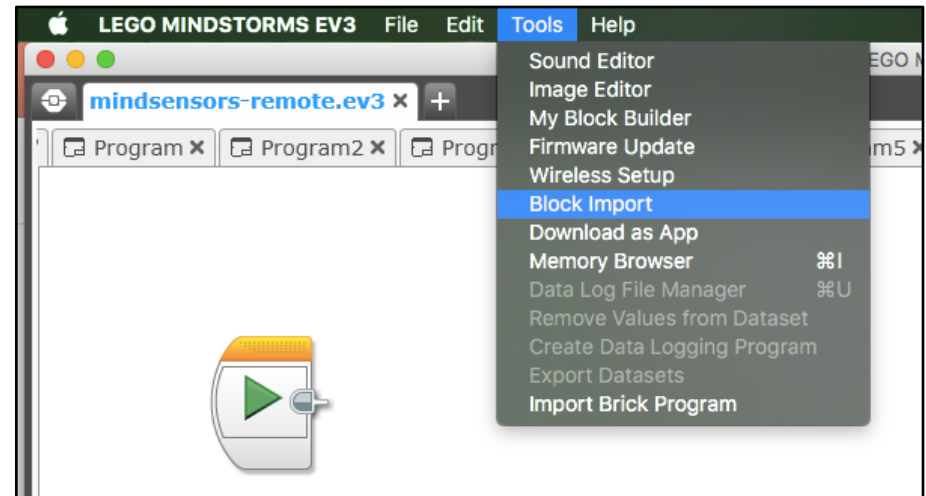
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ACCEPT

 Mindsensors-PSPNx ....ev3b

# Step 2: Import Block

- a. Open your EV3 software
- b. Go to Tools → Block Import
- c. Browse through your files and find the file you downloaded in Step 1
- d. Select the block and click Import
- e. You will have to restart your software before using the block



# CREDITS

- This tutorial was created by Sanjay Seshan and Arvind Seshan
- More lessons are available at [www.ev3lessons.com](http://www.ev3lessons.com)



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