



By Sanjay and Arvind Seshan



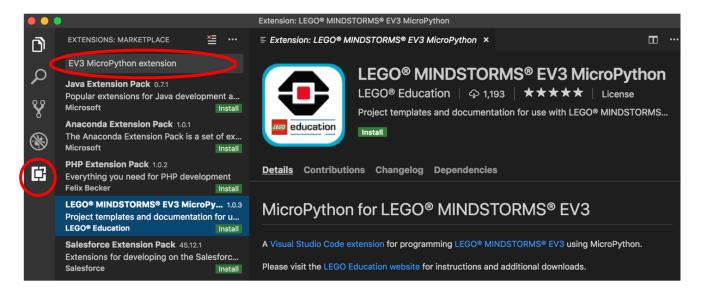
BEGINNER PROGRAMMING LESSON

LESSON OBJECTIVES

- 1. Learn how to install Visual Code Studio
- 2. Learn how to prepare a microSD card for the EV3

STEP 1: INSTALLING VISUAL STUDIO

- 1. Download and Install Visual Studio Code (a source code editor) from the following page: https://code.visualstudio.com/Download
- 2. Launch Visual Studio Code
- 3. Click on Extensions in the left bar and then search for "EV3 MicroPython extension" in the search bar
- 4. Install the Extension



STEP 2: MICROSD CARD

- 1, Download the EV3 MicroPython microSD card image file from the LEGO Education page (https://education.lego.com/en-us/support/mindstorms-ev3/python-for-ev3)
- 2. Download and install Etcher, microSD card flashing tool (https://www.balena.io/etcher/)
- 3. Place your microSD card in the computer and launch Etcher
 - In Etcher, select the EV3 MicroPython microSD card image file downloaded to the LEGO education site
 - Select the microSD card you inserted into the computer
 - Flash the card

Links to documentation and firmware

△ Download the EV3 MicroPython documentation (incl. API, sample code).

△ Download the EV3 MicroPython micro SD card image

April 30 Update:

A known bug with Etcher was fixed. If you tried step 2 and 3 before April 30, try again with the newest version.

STEP 3: INSTALLING THE MICROSD CARD

- 1. Start with the EV3 brick off
- 2. Insert the microSD card into the EV3 brick
- 3. Turn on the EV3 Brick with the center button and wait till the light is green





Tip: The microSD card is hard to remove from the brick. Add a small piece of tape to the end before inserting.

REVERTING BACK

- If you want to go back to the original LEGO firmware, just turn
 off the brick
- 2. Remove the microSD card and turn the EV3 brick back on

CREDITS

Author: Sanjay and Arvind Seshan

More lessons are available at www.ev3tutorials.com



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