

EVE

tutorials

Installing on EV3

MicroPython

By Sanjay and Arvind Seshan



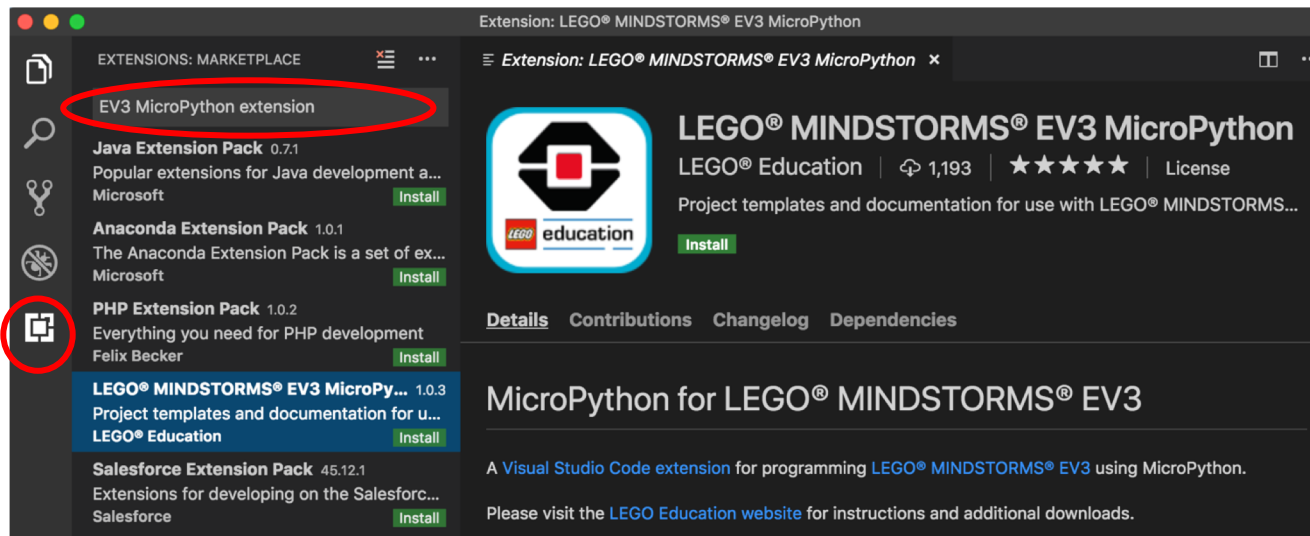
BEGINNER PROGRAMMING LESSON

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 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](#)

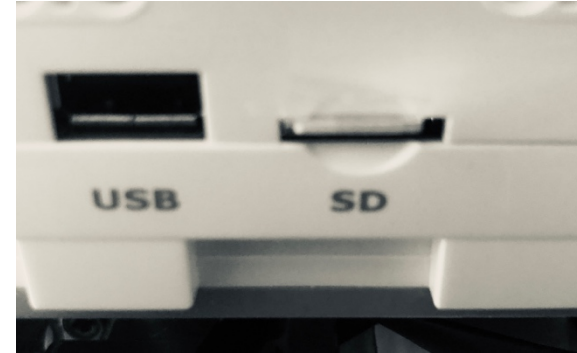
April 25 Update:

There is a known bug. Use this version of Etcher:

<https://github.com/balena-io/etcher/releases/tag/v1.5.26>

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

1. **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

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More lessons are available at www.ev3tutorials.com



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