



# BEGINNER PROGRAMMING LESSON

## **EV3 Classroom: Updating Your Software and Firmware**

By Sanjay and Arvind Seshan



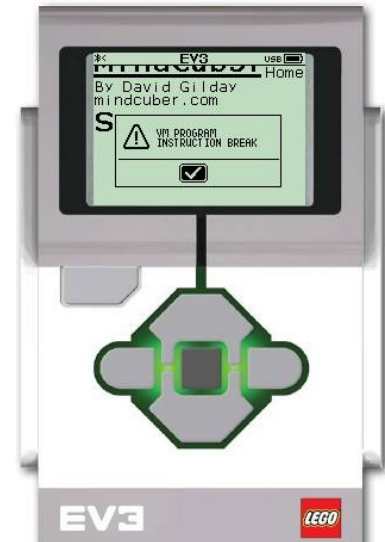
EV3 CLASSROOM LESSON  
BY EV3LESSONS.COM

# LESSON OBJECTIVES

1. Learn how to update the software
2. Learn how to update the firmware

# WHY BOTHER WITH UPDATES?

- **When you first receive your EV3, you should update both your EV3 software and brick firmware versions.**
- **Many users continue to run the default software and firmware versions.**
- **There have been important bug fixes and new features since the EV3 first came out.**
  - For example, the VM Program Instruction Break error was resolved in the last update in 2016.



## NOTE: TWO EDITIONS

- There are two different EV3 brick firmware and programming software available: Home and Education Editions
- To learn about the differences between the two, read <http://ev3lessons.com/2017/01/17/Home-vs-Edu.html>

# Home Edition

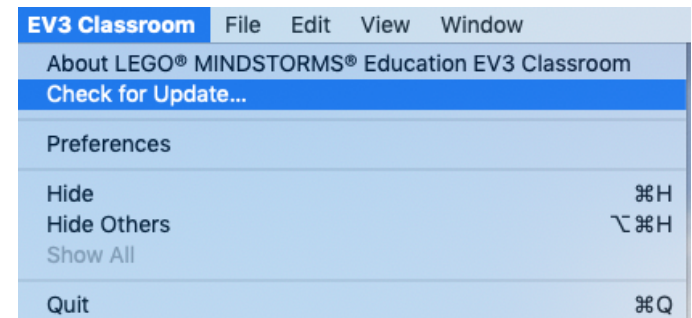
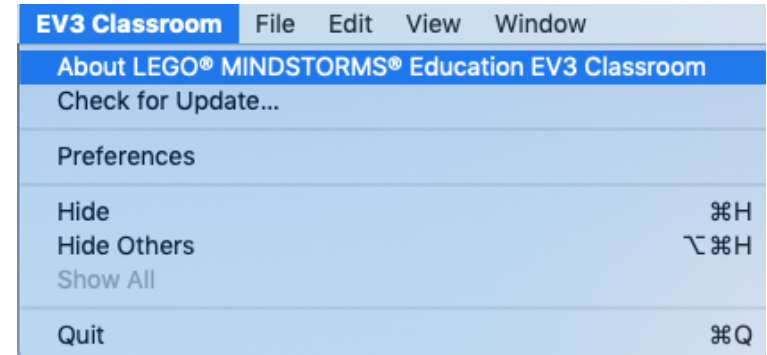


## Education Edition



# TO UPDATE YOUR SOFTWARE

- 1) Open the EV3 Programming Software you installed earlier
- 2) From the Menu, pick “About LEGO MINDSTORMS EV3”
- 3) A pop-up window will appear, showing the version of the software you are running
- 4) Click on the “Check for Update...” menu item to see if there is a newer version of the software

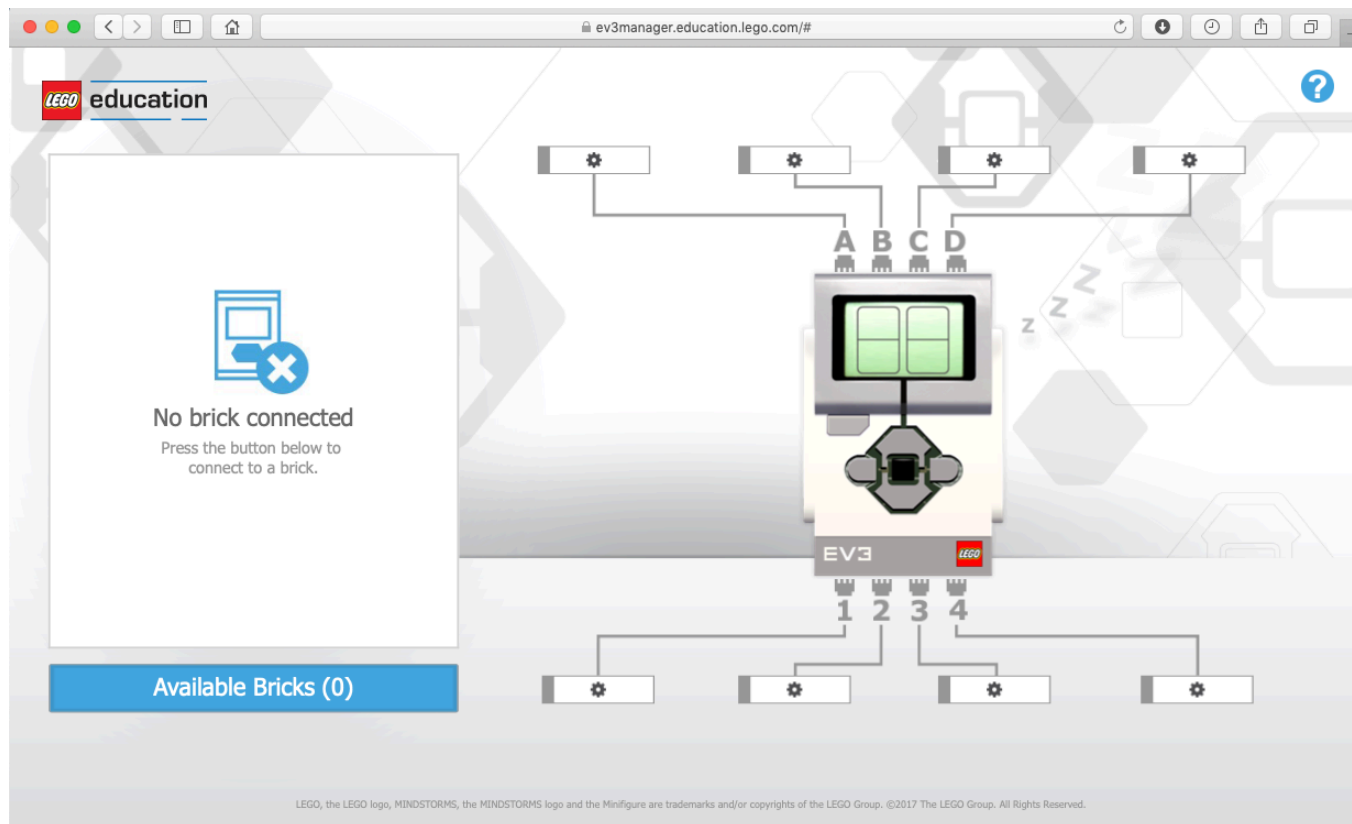


# UPDATING BRICK FIRMWARE

The current EV3 Scratch software does not support updating brick firmware

To update firmware go to:

- <https://ev3manager.education.lego.com/>
- Download and Install EV3DeviceManager when prompted

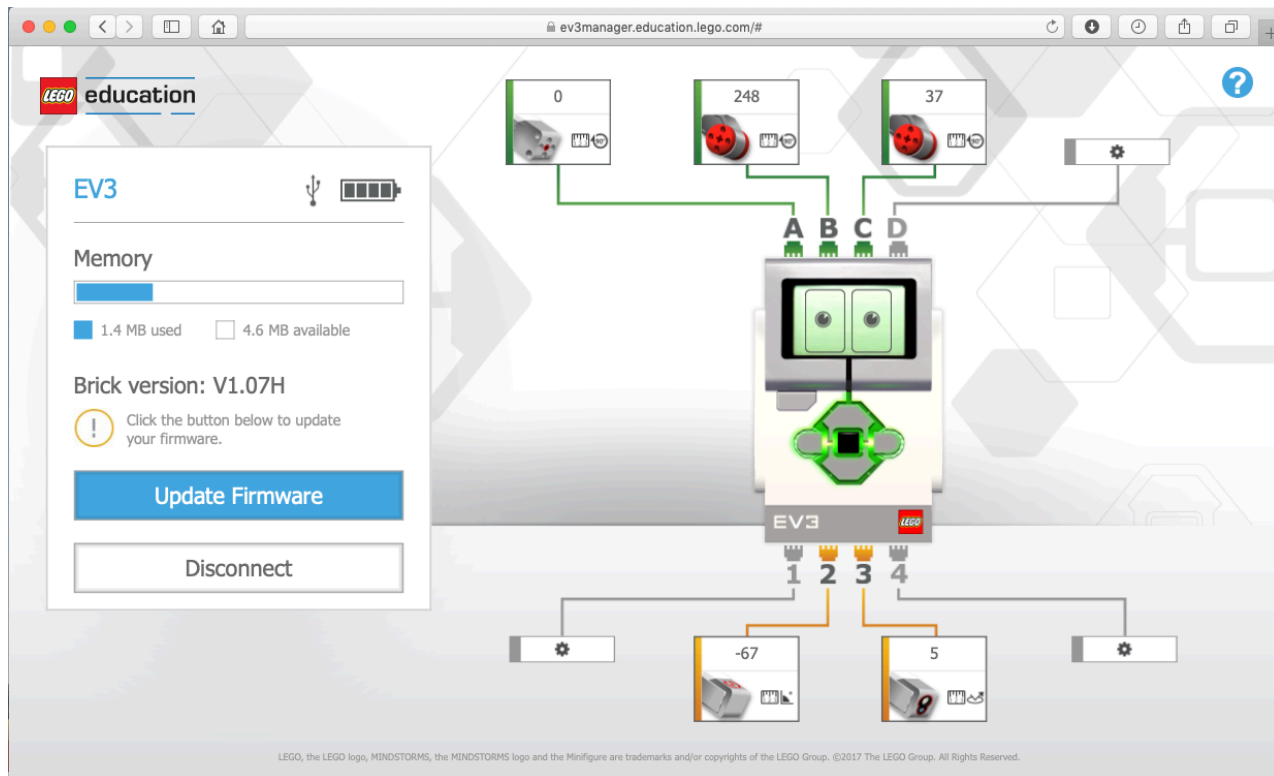


# UPDATING BRICK FIRMWARE

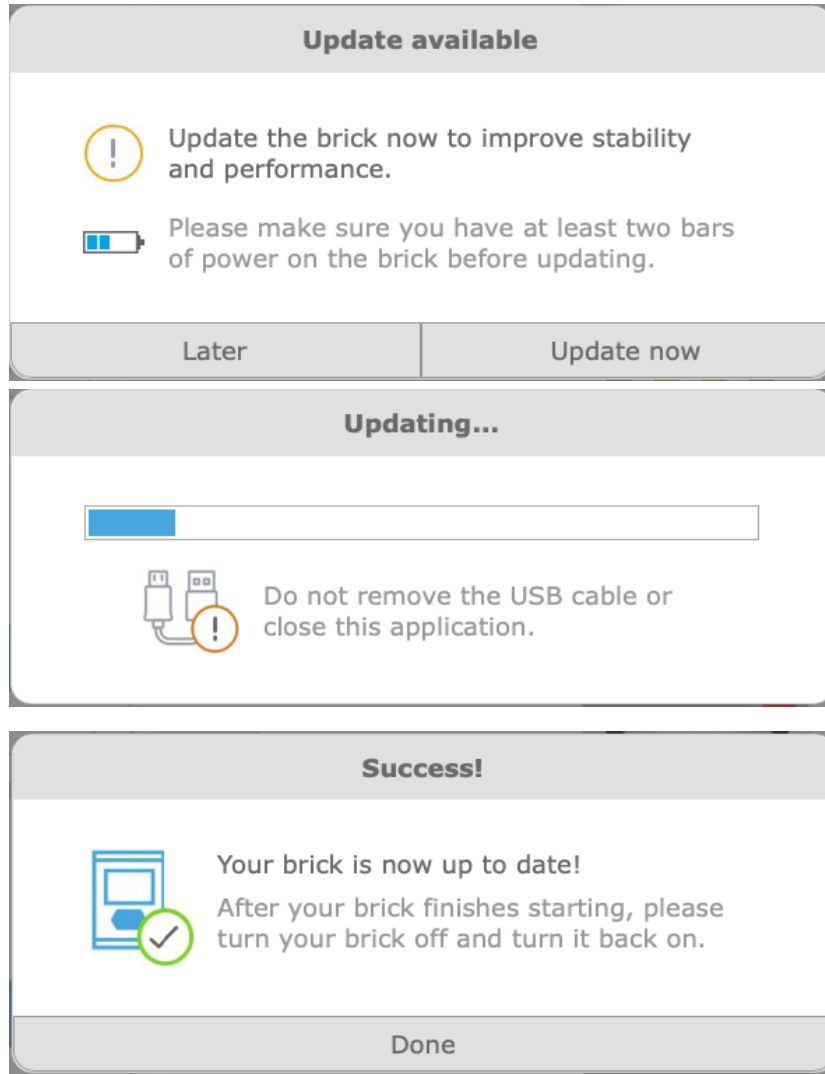
Once the EV3DeviceManager is installed the Web page should show connected devices and firmware version

Note that this only works with usb connected bricks. You may need to refresh the page and/or disconnect+reconnect the brick after you install the software to see this screen

Click on the update firmware if needed



# UPDATING BRICK FIRMWARE



**You should see the dialog boxes on the left as part of the update process.**

**Follow the instructions given (e.g. click Update now)**

**At the end of the process, you will need to power cycle the brick to get it to connect to your computer**



# 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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