

Arduino Installation



Download Arduino

1. Visit www.arduino.cc/en/Main/Software
2. Click link for your OS
 - a. Windows:
 - i. Use the installer
 - b. Linux / OSX
 - i. Download & Extract archive folder

Enable C++11

1. Find installation directory

a. Windows

C:\Program Files (x86)\Arduino\

b. Linux / OSX

Wherever you extracted the archive to

eg. /home/[username]/arduino-1.6.4/

2. Open platform.txt

a. [install path]/hardware/arduino/avr/platform.txt

Enable C++11

3. Find line starting with `compiler.cpp.flags=...`
4. Add `-std=c++11` to the end of this line
5. Save & close

Install Libraries

1. Launch Arduino IDE
2. *Sketch*→*Include Library*→*Manage Libraries...*
3. Install *Encoder*
4. Install *PID*

Install Libraries (for Linux / OSX)

1. Copy InstallBricktronics.sh from Github
 - a. Put it in the *libraries* folder under Arduino's sketchbook folder
2. Run InstallBricktronics.sh
3. Restart Arduino IDE

Install Libraries (for Windows)

1. Download zips of all Bricktronics library repos
 - a. github.com/wayneandlayne
2. Extract all archives to the libraries folder
 - a. Remove all “-master” endings

Install Libraries (for Windows)

3. Download Adafruit MCP23017
 - a. github.com/adafruit/Adafruit-MCP23017-Arduino-Library
4. Follow same procedure as Bricktronics libraries
5. Restart Arduino IDE

Demo

Built-in LED

