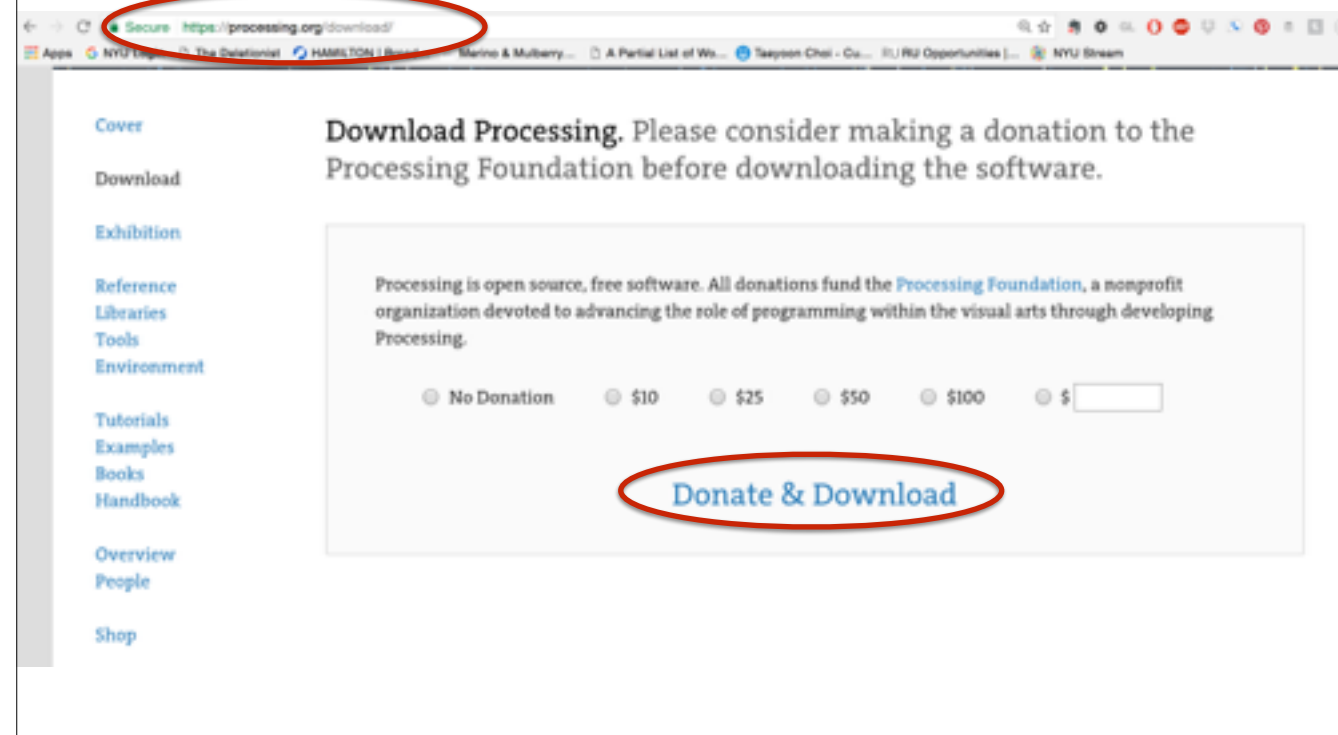


# Arduino + Processing



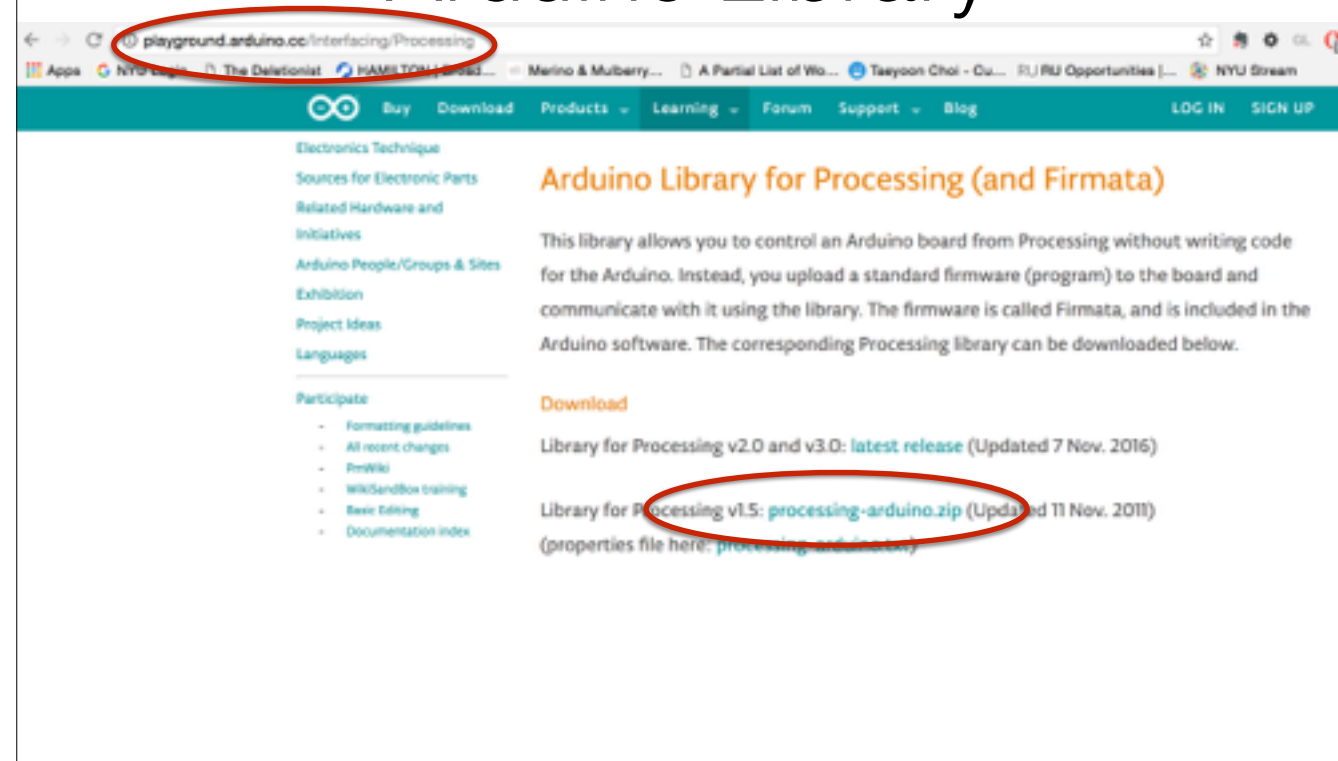
Download Processing for your laptop and Install it

# Using the Serial Library

- Import Serial library
- note port name in Serial object
- read and write to the port

Another method is to use the Processing  
Library for the Arduino within Processing

# Download the Processing-Arduino Library



The screenshot shows the Arduino Playground website at the URL [playground.arduino.cc/interfacing/Processing](https://playground.arduino.cc/interfacing/Processing). The page features a teal navigation bar with links for Buy, Download, Products, Learning, Forum, Support, and Blog. A left sidebar lists various resources like Electronics Technique, Sources for Electronic Parts, and Participate. The main content area is titled "Arduino Library for Processing (and Firmata)" and explains that the library allows controlling an Arduino board from Processing without writing code. It provides two download options: "Library for Processing v2.0 and v3.0: latest release (Updated 7 Nov. 2016)" and "Library for Processing v1.5: [processing-arduino.zip](#) (Updated 11 Nov. 2011)". The link to the v1.5 zip file is circled in red.

playground.arduino.cc/interfacing/Processing

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- Wiki Sandbox training
- Basic Editing
- Documentation index

## Arduino Library for Processing (and Firmata)

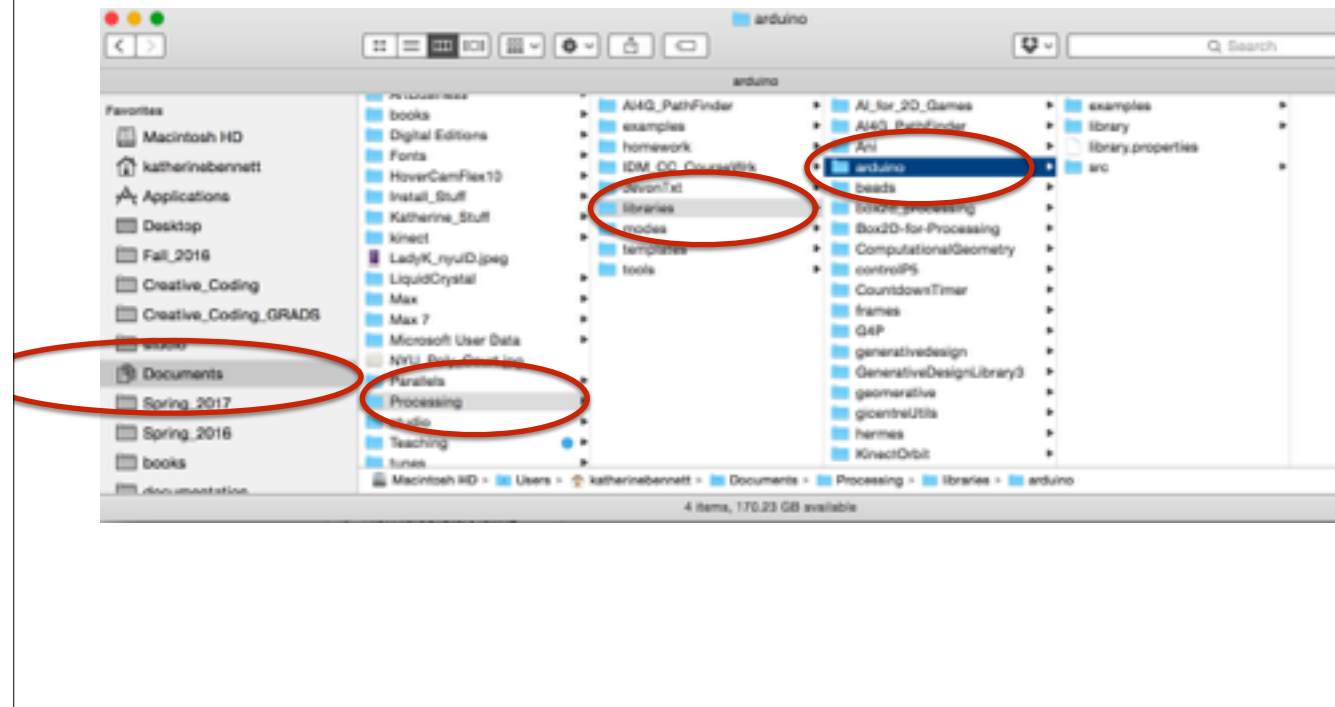
This library allows you to control an Arduino board from Processing without writing code for the Arduino. Instead, you upload a standard firmware (program) to the board and communicate with it using the library. The firmware is called Firmata, and is included in the Arduino software. The corresponding Processing library can be downloaded below.

### Download

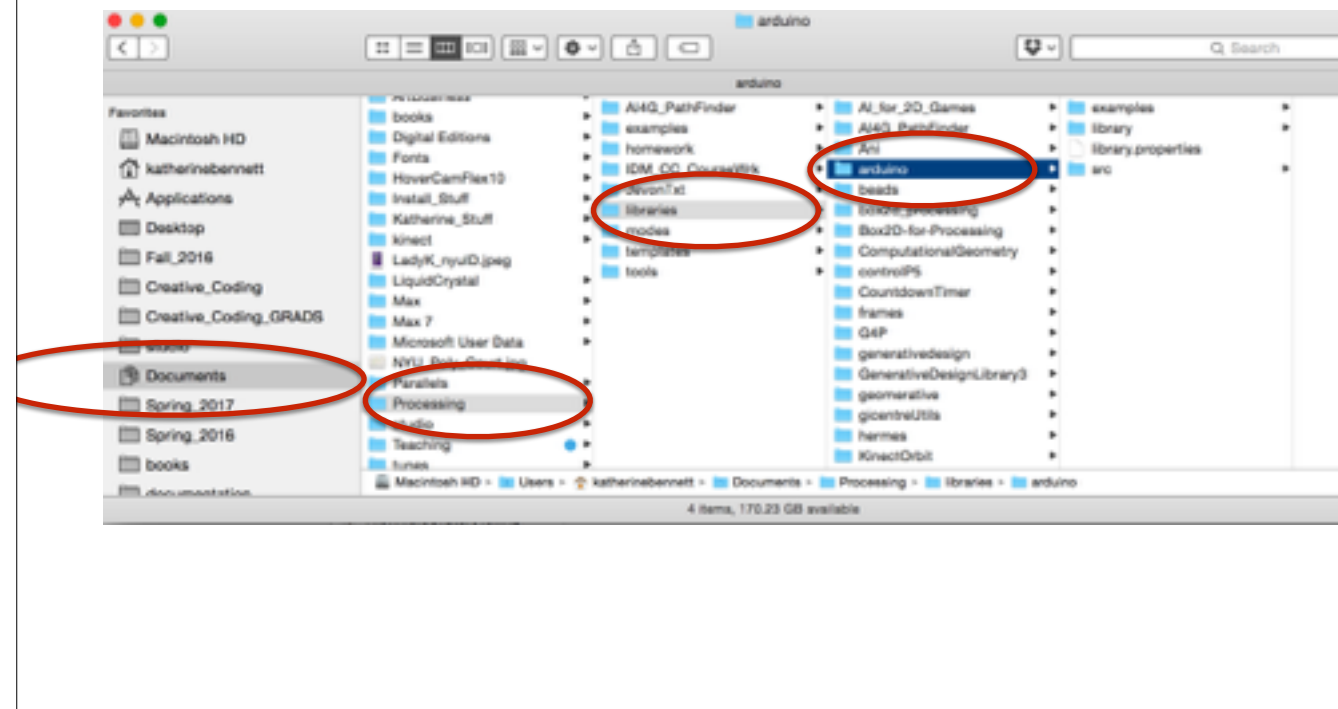
Library for Processing v2.0 and v3.0: [latest release](#) (Updated 7 Nov. 2016)

Library for Processing v1.5: [processing-arduino.zip](#) (Updated 11 Nov. 2011)  
(properties file here: [processing-arduino.txt](#))

Now that you've downloaded Processing + installed it, look in your Documents folder or in your "c" drive for a folder called "Processing"



If you don't have a libraries folder, make one and drop the “arduino” file from the Processing-Arduino download inside of it.

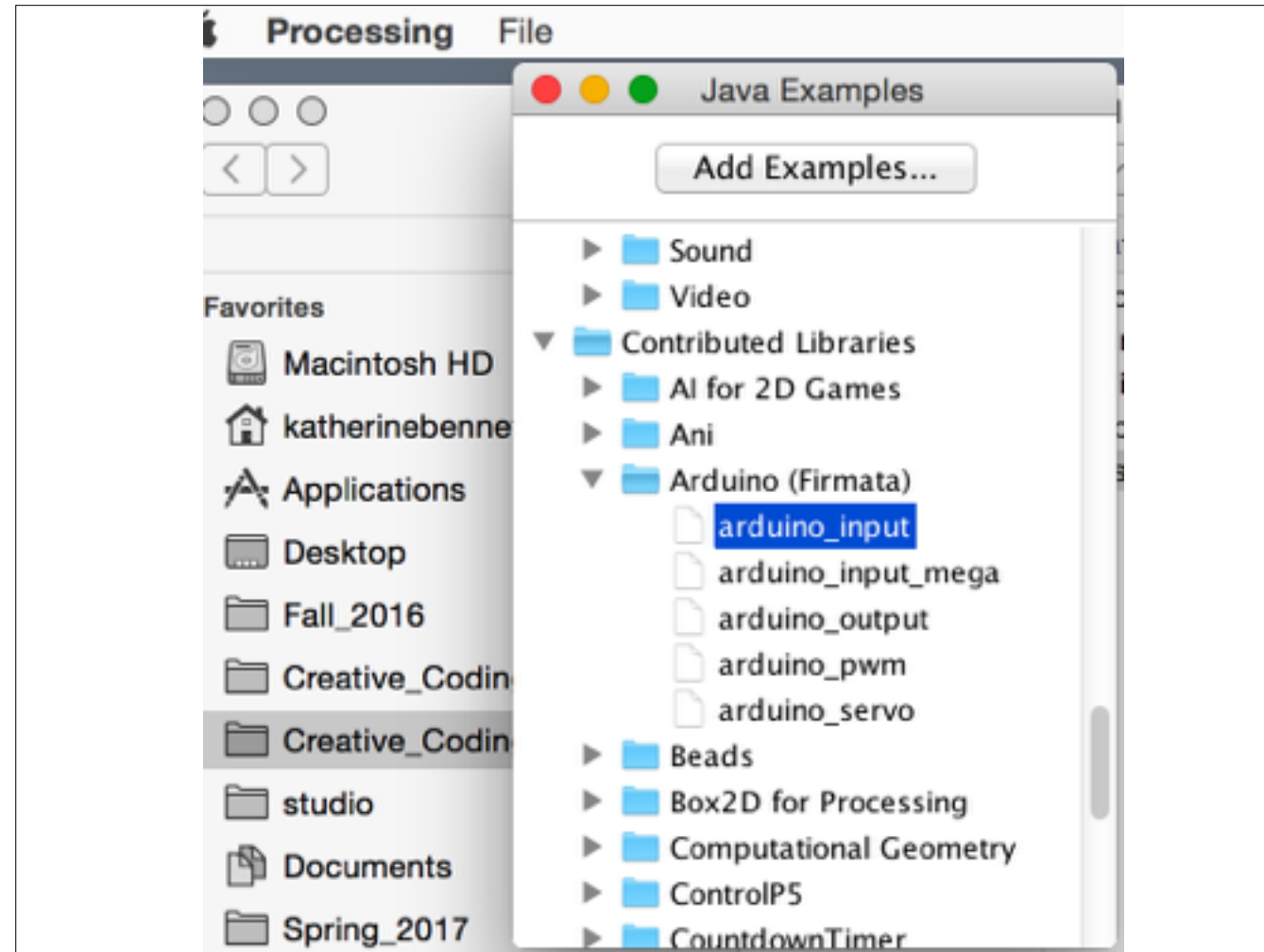


- With the Firmata sketch already loaded onto the Arduino board, we are ready to switch to Processing.
- If the Firmata sketch is not on your Arduino, load it on there from the File/Examples/Firmata/StandardFirmata
- Close the Arduino Application!!!!

Open up the examples that came with the  
arduino library for the Processing  
(Application)







- Edit the example code to select the serial port used by Arduino. Specifically, change the [0] in this line
- `arduino = new Arduino(this, Arduino.list()[0], 57600);`
- To find the correct item in the array, run this code in Processing:
- `import processing.serial.*;`
- `import cc.arduino.*;`
- `println(Arduino.list());`
- The output window will enumerate your serial ports. Select the number corresponding to the serial port in your Arduino environment found under Tools > Serial Port.