

Creating Responsive Cloth Workshop with Ryth Kesselring and Barbara Layne
PRE-WORKSHOP INSTRUCTIONS FOR USING THE FLORA CIRCUIT BOARD

At this time we would ask that you prepare your laptop in advance by downloading the latest Arduino software which can take up to 40 minutes. If you have trouble installing it, we can help you, but this can take a lot of valuable workshop time so we prefer to have it done before the workshop begins. Please go step-by-step, carefully following instructions.

There are various sites for the Arduino Platform download, but we think the best is to use the Adafruit website because it is specific to the electronic platform that we will use (Flora). Also, it shows the special Driver if your laptop is running Windows (The special driver is not necessary for Mac or Linux). IF USING WINDOWS, first install the Arduino program before downloading the driver, following the instructions below.

All users, begin with Section 1:

SECTION 1. DOWNLOAD AND INSTALL THE PLATFORM

Go to:

<https://learn.adafruit.com/getting-started-with-flora/download-software>

Then click on the blue link that says Adafruit Arduino IDE setup guide.

Go to "Super Easy Installation (Recommended)" and click on "LATEST ARDUINO IDE DOWNLOAD"

Scroll down to "DOWNLOAD THE ARDUINO IDE" and in the box on the right, click on the Operating System that you are using on your Laptop (**Windows, Mac, or Linux.**)

note: IF YOU HAVE AN OLDER OPERATING SYSTEM, SCROLL FURTHER DOWN THE PAGE TO "PREVIOUS RELEASES" and click on "PREVIOUS VERION OF THE CURRENT RELEASE" and choose Version **1.6.4 or higher**

This will take you to a window where you can Contribute (\$) to this Open Source software or Just Download (click either).

When the download is complete find the arduino zip file (most likely in your Downloads folder) and double click to open.

Then move (drag and drop) the Arduino Application icon to your Applications folder.

SECTION 2. TO BE ABLE TO USE ADAFRUIT FLORA WITH THE ARDUINO PROGRAM,

Open the Arduino application and open Arduino 'Preferences'
—to do that in *Windows* or *Linux* you can access it from the **File menu of Arduino**. To do this in MAC, you will do it from the **Arduino menu of Arduino**

In the Preferences window go to Additional Boards Manager URLs:
and copy and paste this URL in that

box: https://adafruit.github.io/arduino-board-index/package_adafruit_index.json

Now go to TOOLS in the Arduino Menu and choose Board:

“Arduino/Genuino Uno” and choose Board Manager (first item in menu)

In the Boards Manager Window go to Type and select “Contributed”. In the *Filter your search window...* Type Flora

This will bring you to **Adafruit AVR Boards by Adafruit**

Click once on this section and then click on the Install button.

Close the Boards Manager window.

SECTION 3. INSTALLING DRIVERS AND PERMISSIONS MANAGEMENT

Copy and past the following URL into your Browser:

FOR MAC COMPUTER: <https://learn.adafruit.com/adafruit-arduino-ide-setup/mac-osx-setup>

Follow the instructions on the page

FOR LINUX COMPUTER: <https://learn.adafruit.com/adafruit-arduino-ide-setup/linux-setuP>

Follow the instructions on the page

FOR WINDOWS COMPUTER: <https://learn.adafruit.com/adafruit-arduino-ide-setup/windows-driver-installation>

Then click on Download Latest Adafruit Windows Driver Installer

Click on Adafruit Drivers_2.3.2.exe

Agree and Install and Close then go to Section 4.

SECTION 4. LAST LITTLE THING

During the workshop we will use Neopixels and we need to include the Adafruit_Neopixel Library.

To do so you open your Arduino program, go to “Sketch” in the main menu. Choose "include library" and go to “Manage Libraries” . In *Filter Your Search*, type **Adafruit Neopixel**, Click once on Adafruit NeoPixel by Adafruit Version 1.1.6 and then click on the Install button.

You are ready for the Workshop!

Email both of us if you have any trouble and one of us will get back to you asap:

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