

WiFi-enabled LED Workshop

Arduino Installation Instructions

1. Download and install Arduino software corresponding to your operating system:
<https://www.arduino.cc/en/Main/Software>
2. If using Mac OSX (any version) or Windows 7 or 8, please install CH341 Driver:
http://raysfiles.com/drivers/ch341ser_mac.zip (For Mac OSX)
<http://raysfiles.com/drivers/ch341ser.exe> (For Windows 7 or 8)
3. Run Arduino. go to menu File -> Preferences, and paste the following link:
http://arduino.esp8266.com/stable/package_esp8266com_index.json
in 'Additional Boards Manager URLs'
Click on 'OK'. Then go to menu Tools -> Board -> Boards Manager, scroll down to the bottom, you should see the *ESP8266* board. Click on 'Install'.
4. Go to Sketch -> Include Library -> Manage Libraries. Search 'NeoPixel' and install 'Adafruit NeoPixel' library.
5. Make sure that:
Tools -> Board, select '*Generic ESP8266 Module*',
Tools -> Upload Speed, select '*230400*',
Tools -> Port, select the correct USB serial port (if no valid port shows up, make sure you installed Driver correctly in Step 2 above).
6. Now open any provided workshop example (in the Arduino folder). Make sure ESPtoy is in bootloading mode, and click on Upload to upload the sketch.
7. You can also try any of the Adafruit NeoPixel library examples, just make sure that
PIXEL_PIN is 14 (the GPIO pin that ESPtoy uses to send data to the LED matrix)
BUTTON_PIN is 0 (the GPIO pin that connects to the button on ESPtoy)
PIXEL_COUNT is 35 (the LED matrix has 5x7 = 35 LEDs).

For additional details, check <https://github.com/esp8266/Arduino>