Arduino Grove Kit – Initial Code Example

Downloading the Original Firmware zip File

- 1) Navigate to the Seeed Arduino Grove kit wiki page here: <u>https://wiki.seeedstudio.com/Grove-Beginner-Kit-For-Arduino/</u>
- 2) Scroll to the bottom of the page until you find the "Resources" heading (Fig. 1).
- 3) Click on "5. Initial Arduino Firmware Demo" to download a zip file of the code and libraries needed to run the initial demo code.
- Open your Arduino IDE and go to Preferences (File → Preferences) to check your sketchbook location (Fig. 2) and open the Sketchbook folder in a file manager / explorer on your computer
- 5) Move the downloaded zip file from step 3) into this sketchbook folder and unzip it there: you should now have a folder called "Grove_Starter_Kit". Note that this Sketchbook folder also includes a folder from before called "libraries" (this is where all your libraries live, like the UKESF-Sixth-Formers library). The path for me is: "*C:/Users/myusername/Documents/Arduino/libraries*").
- 6) From the unzipped "Grove_Starter_Kit" folder, copy the highlighted library folders in Fig 4. across to your Sketchbook "libraries" folder (Note: you may already have the "U8g2" library from before, in which case you can skip that one).
- 7) After you have copied the libraries across, you can double click the "Grove_Starter_Kit.ino" file to open the Arduino code for the initial example and upload it to your Grove Kit board.
- 8) If you get any errors when trying to upload, please refer to the UKESF Guide and check that you have chosen the correct COM port, Arduino Uno board type and AVRISP MKII programmer, also check that the libraries you copied over from the zipped folder to your libraries folder were successful.
- 9) You can now edit and upload the original Example code for the board Happy coding!

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Figure 1. On the Seeed Arduino Grove kit wiki click the "Initial Arduino Firmware Demo" link to download the zip file which contains the initial code and libraries.

Preferences			×
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Sketchbook location:			
C:\Users\myusername\Docum	ents (Arduino)		Browse
C: Users \myusername \Documents \Arduino Browse Editor language: System Default (requires restart of Arduino) Editor font size: 14 Interface scale: Interface scale: Automatic 100 + % (requires restart of Arduino)			
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Theme:	Default theme 🧹 (requires restart of Arduino)		
Show verbose output during:	compilation upload		
Compiler warnings:	None 🗸		

Figure 2. Sketchbook location: In your Arduino IDE, File → Preferences, check you Sketchbook location (you will need to unzip the firmware zip file here).

Jame	Date modified	Type	Size
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Adafruit_Neopixel_Music	11/12/2018 18:26	File folder	
ATtiny85_blink	05/12/2018 19:59	File folder	
ATtiny85_PWM_3	05/12/2018 20:18	File folder	
ATtiny85_PWM_4	19/12/2018 14:05	File folder	
ATtiny85_PWM_4_Custom	07/12/2018 19:41	File folder	
attiny-ide-1.6.x	05/12/2018 19:47	File folder	
Grove_Starter_Kit	09/08/2021 09:48	File folder	
hardware	05/12/2018 19:48	File folder	
HC-SR04_Test	05/12/2018 19:30	File folder	
libraries	09/08/2021 09:50	File folder	
RDA5807 FM Receiver	06/12/2018 17:41	File folder	

Figure 3. Sketchbook folder: In your Sketchbook folder you should now have the unzipped folder called "Grove_Starter_Kit" and a "libraries" folder (which is where all your Arduino libraries like the UKESF-Sixth-Formers library lives).

	1813 1963 1 1 999 1			1
Name	Date modified	Туре	Size	
.vscode	09/08/2021 09:48	File folder		
Grove_BMP280-master	09/08/2021 09:48	File folder		
Grove_Temperature_And_Humidity_Sens	09/08/2021 09:48	File folder		
MsTimer2	09/08/2021 09:48	File folder		
Seeed_Arduino_LIS3DHTR-master	09/08/2021 09:48	File folder		
U8g2	09/08/2021 09:48	File folder		
Grove Starter Kit.ino	24/08/2020 02:50	Arduino file	15 KB	

Figure 4. Copy the libraries across: included in the "Grove_Starter_Kit" folder are five libraries we need to copy into the Arduino Sketchbook "libraries" folder (Note: you may already have a U8g2 library from before, in which case you can skip that one or overwrite it).