## Simblee Quickstart Guide v1.0

### **Simblee IDE Installation for Windows**

Installing Arduino IDE 1.6.5 / Installing Simblee Library / Simblee USB Driver and COM port

### Installing Arduino IDE 1.6.5

For Windows

1.

Visit Arduino.cc and click the **Download** tab at the top of the page



#### 2. Click on previous version of the current release

**3.** Select Windows ZIP for non admin installation

## ARDUINO 1.6.5

ARDUINO 1.0.6 / 1.5.x / 1.6.x

Download the previous version of the current release, the classic Arduino 1.0.x, or the Arduino 1.5

PREVIOUS RELEASES

Bota We

Arduino IDE that can be used with any Arduino board, including the Arduino Yún and Arduino DUE. Refer to th Getting Started page for Installation instructions. See the release notes.

Windows Installer Windows ZIP file for non admin install



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After downloading, you will have a ZIP file called Arduino-1.6.5-r5-windows.zip

#### 💽 🗢 🚹 🖡 Network 🕨 psf 🕨 Home 🕨 Downloads 🕨 arduino-1.6.5-r5-windows.zip 🕨 Extract all files Organize + Name Type Favorites E Desktop arduino-1.6.5-r5 File folder Downloads Recent Places 🔚 Libraries Documents A Music Pictures Subversion H Videos

#### 5.

7.

Extract the folder arduino-1.6.5-r5 to your root directory (C:\\ for example)



#### **6.** Open the folder arduino-1.6.5-r5

Right click inside the folder window and

organize + Include in	library - Share wa	New folder		
Favorites	Name	Date modified	Туре	Size
Desktop	alist dist	10/13/15 2:20 PM	File folder	
bownloads	📕 drivers	10/13/15 2:20 PM	File folder	
Recent Places	i examples	10/13/15 2:20 PM	File folder	
	hardware	10/13/15 2:20 PM	File folder	
Libraries	🎍 java	10/13/15 2:20 PM	File folder	
Documents	Jib lib	10/13/15 2:21 PM	File folder	
Music	libraries	10/13/15 2:21 PM	File folder	
E Pictures	la reference	10/13/15 2:21 PM	File folder	
Subversion =	i tools	10/13/15 2:21 PM	File folder	
Videos	arduino.exe	8/28/15 9:32 AM	Application	393 Ki
	arduino.l4j.ini	8/28/15 9:32 AM	Configuration sett	1 KF
Homegroup	arduino_debug.exe	8/28/15 9:32 AM	Application	390 Ki
	arduino_debug.l4j.ini	8/28/15 9:32 AM	Configuration sett	1 Ki
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PerfLogs	revisions.bt	8/28/15 9:32 AM	Text Document	67 KF
Drooram Filer				





go to New > Folder

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Name the new folder "portable"

ganize 👻 🧊 Open	Include in library 🕶	Share with <b>*</b> Burn	New folder		
Favorites	Name	I	Date modified	Туре	Size
Desktop	Ja dist	1	0/13/15 2:20 PM	File folder	
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PerfLogs	S msvcr100.dll	8	/28/15 9:32 AM	Application extens	753 KB
Program Files	revisions.txt	8	/28/15 9:32 AM	Text Document	67 KB

#### 9. Launch Arduino.exe

Organize 🔻 📑 Oper	n Burn New folder			
* Favorites	Name	Date modified	Туре	Size
E Desktop	🕌 dist	10/13/15 2:20 PM	File folder	
Downloads	🕌 drivers	10/13/15 2:20 PM	File folder	
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	🅌 hardware	10/13/15 2:20 PM	File folder	
词 Libraries	🎉 java	10/13/15 2:20 PM	File folder	
Documents	🕌 lib	10/13/15 2:21 PM	File folder	
J Music	ibraries	10/13/15 2:21 PM	File folder	
E Pictures	🅌 portable	10/13/15 2:24 PM	File folder	
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Local Disk (C:)	libusb0.dll	8/28/15 9:32 AM	Application extens	43 KI
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PerfLogs	S msvcr100.dll	8/28/15 9:32 AM	Application extens	753 KE
Program Files	revisions.txt	8/28/15 9:32 AM	Text Document	67 KF

## Installing Simblee Library

#### 1.

With the ArduinoIDE open, click on File > Preferences





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# Copy and Paste the following link into **Additional Boards Manager URLs**:

"https://www.simblee.com/package\_simblee\_index.json" then press "OK"

Preferences	×
Sketchbook location:	
sketchbook	Browse
Editor language: System Default	no)
Editor font size: 12	
Show verbose output during: 🔲 compilation 📄 upload	
Compiler warnings: None 👻	
Display line numbers	
Enable Code Folding	
Verify code after upload	
Use external editor	
Check for updates on startup	
Update sketch files to new extension on save (.pde -> .ino)	
Save when verifying or uploading	
Additional Boards Manager URI https://www.simblee.com/package_simblee_index.json	
More preferences can be edited directly	
C:\arduino-1.6.5-r2\portable\preferences.txt	
(edit only when Arduino is not running)	
	OK Cancel

#### 3. Go to Tools > Board: > Boards Manager...



#### **4.** Scroll down to **Simblee Boards by Simblee**, and click on **Install**

Boards Manager	
pe Al 👘 Riter your standt,	
ntei 1968 Boards by Intel Ioards included in this packager dison. Iore Info	
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simblee Boards by Simblee Boards included in this packager Simblee. Bane help Bare info	
	0.0 Tinstall

### 5.

Confirm it is installed, as it should say **"INSTALLED"** next to the board name

Boards Manager	
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Intel föröß Boards by Intel Boards included in this package: Edison. <u>Mora info</u>	
AMEL-Tech Boards by AMEL Technology Boards included in this package: SmartEventhing Fox. <u>Online help</u> <u>More Info</u>	
Simblee Boards by Simblee version 0.133 INSTALLED Boards included in this package: Simblee. <u>Online help</u> <u>More info</u>	



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#### 6. Go to Tools > Board: > Click on Simblee



## **7.** Bottom right of window should now say **Simblee**

2
Simblee on 7 M1



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## Simblee USB Driver and COM port

#### 1.

Visit the following link to download and install the latest drivers for your system http://www.ftdichip.com/Drivers/VCP.htm Currently Supported VCP Drivers

				Pro					
Operrating system	Release Date	x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSII	MIPSIV	SH4	Comments
Windows	2015-07-28	2.12.06	2.12.06	-	-	-	-	-	2.12.06 WHQL Certified Available as setup executable Release Notes
Linux	2009-05-14	1.5.0	1.5.0	-	-	-	-	-	All FTDI devices now supported in Ubuntu 11.10, kernel 3.0.0-19 Refer to TN-101 if you need a custom VCP VID/PID in Linux
Mac OS X 10.3 to 10.8	2012-08-10	2.2.18	2.2.18	2.2.18	-	-	-	-	Refer to TN-105 if you need a custom VCP VID/PID in MAC OS
Mac OS X 10.9 and above	2015-04-15		2.3	-		-	-	-	This driver is signed by Apple
Windows CE 4.2-5.2**	2015-04-15	1.1.0.20	-	-	1.1.0.20	1.1.0.20	1.1.0.20	1.1.0.20	-
Windows CE 6.0/7.0	2012-01-06	1.1.0.20 CE 6.0 CAT CE 7.0 CAT	-	-	1.1.0.20 CE 6.0 CAT CE 7.0 CAT	For use of the CAT files supplied for ARM and x86 builds refer to AN_319			
Windows CE 2013	2015-03-06	BETA	-	-	BETA	-	-	-	BETA VCP Driver Support for WinCE2013

#### 2.

Plug in your USB Programming Shield. With ArduinoIDE open, go to Tools > Port and select COMXX (XX is the number of the COM port your Simblee

#### 3.

After selecting the COM port, at the bottom right of the Arduino IDE, it should not say "Simblee on COMXX"



1/ put yo	ur main code her	e, to run repeate	θIΨ:
'			



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### Simblee IDE Installation on Mac OS X

Installing Arduino IDE 1.6.5 / Installing Simblee Library / Simblee USB Driver Installation / Selecting COM port

ARDUINO

BI

Home

Installing Arduino IDE 1.6.5

101 1010

**1.** Visit Arduino.cc and click the **Download** tab at the top of the page



#### ARDUINO 1.0.6 / 1.5.x / 1.6.x PREVIOUS RELEASES

+ov-Genuino

Download

WHAT IS ARDUINO?

Products 🚽

Learning -

Forum

Download the **previous version of the current release**, the classic **Arduino 1.0.x**, or the **Arduino 1.7.x** 

**3.** Select Mac OS X installation

#### ARDUINO 1.6.5

Arduino IDE that can be used with any Arduino board, including the Arduino Yún and Arduino DUE. Refer to the Getting Started page for Installation instructions. See the release notes.

Windows Installer Windows ZIP file for non admin install

Mac OS X 10.7 Lion or newer Linux 32 bits Linux 64 bits



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Once the download is complete, double click arduino-1.6.5-r5-macosx.zip to unzip the file



#### 5.

ArduinoIDE is now on your system. You may move it to your applications if you wish to do so. Double click Arduino to start the IDE



## Installing Simblee Library

#### 1.

With the Arduino IDE open, click on Arduino > Preferences

É	Arduino	File	Edit	Sketch	Tools	Help	
	About A	rduino		ov06a   A	rduino 1	.6.5	
$\mathbf{O}$	Preferen	ices	Ж,				
sket	Services	3	►				
void s // r }	Hide Arc Hide Otl Show Al	duino hers II	H第 H第了	to run	once:		
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}							



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Copy and Paste the following link into

#### Additional Boards Manager URLs:

"https://www.simblee.com/package\_simblee\_ index.json" then press "OK"

Preferences	
Sketchbook location:	
sketchbook	Browse
Editor language: System Default + (rec	quires restart of Arduino)
Editor font size: 12	
Show verbose output during: 🗌 compilation 📄 upload	
Compiler warnings: None +	
Display line numbers	
Enable Code Folding	
☑ Verify code after upload	
Use external editor	
☑ Check for updates on startup	
☑ Update sketch files to new extension on save (.pde -> .ino)	
Save when verifying or uploading	
Additional Boards Manager URLs: https://www.simblee.com/package_simblee_ind	ex.json
More preferences can be edited directly in the second se	
/Users/brianfamularcano/Downloads/Arduino.app/Contents/Java/portable/preferen	nces.txt
(edit only when Arduino is not running)	
	OK Cancel

#### 3. Go to Tools > Board: > Boards Manager...



#### 4.

Scroll down to **Simblee Boards by Simblee**, and click on **Install** 



#### 5.

Confirm it is installed, as it should say **"INSTALLED"** next to the board name





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#### 6. Go to Tools > Board: > Click on Simblee



## **7.** Bottom right of window should now say **Simblee**





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### Simblee USB Driver and COM port

For Mac OS X

#### 1.

Visit the following link to download and install the latest drivers for your system: http://www.ftdichip.com/Drivers/VCP.htm

Currently Supported VCP Drivers



### 2.

Plug in your USB Programming Shield. With ArduinoIDE open, go to **Tools** > **Port** and select the serial port your USB programming shield is conneted to /dev/cu.usbserial-XXXXXXXX

Tools	Help		
Auto Format Archive Sketch Fix Encoding & Reload		ЖТ	
Seria	Monitor	<mark></mark> ዮ፝፞፞፞ቘM	
Board	d: "Simblee"	►	
Port		►	Serial ports
Progr Burn	ammer: "AVRISP mkII" Bootloader	<b>•</b>	/dev/cu.Biuetooth-Incoming-Port /dev/cu.usbserial-DN00CSYG

#### 3.

After selecting the serial port, at the bottom right of the Arduino IDE, it should say "**Simblee on** /dev/cu.usbserial-XXXXXXXX"





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### Simblee For Mobile Temperature Example

Programming Simblee / Simblee For Mobile Installation and Use

## **Programming Simblee**

1.

Go to File > Examples > SimbleeForMobile > Select Temperature



2.

A new window will pop up called Temperature. Click on Upload (Right Arrow Image)

Temperature   A	rduino 1.6.5		
File Edit Sketch I	tipload		
Temperature	memometer_builte		
The sketch dem Advertisement updates once a	constrates how to d connection with th second.	o accept a Bluetooth e Simblee, then send	Low Energy 4 CPU temperatu
This sketch wo */	rks with SimbleeFo	rMobile.	
/*			
* Copyright (	c) 2015 RF Digital	Corp. All Rights Re	served.
* The source * or covering * Your right * non-sub lic	code contained in the source code i to use this source ensable, revocable	this file and all in s the property of RF code and intellectu , and subject to term	tellectual pro Digital Corp. al property is ms and conditi
<ul> <li>SIMBLEE SOF</li> <li>http://www.</li> </ul>	IWARE LICENSE AGRE simblee.com/licens	EMENT. es/SimbleeSoftwareLi	censeAgreement
. THE SOURCE	CODE IS PROVIDED "	AS IS" WITHOUT WARRA	NTY OF ANY KIN
4	m		Ŧ
	m		
			Simblee on COM10



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After uploading, the bottom window will display "SUCCESS"



## Simblee For Mobile Installation and Use

#### **Installing Simblee For Mobile**

1. On your iOS device, open the AppStore

- 2. Search for "Simblee For Mobile"
- 3. Click on **INSTALL**

4. Simblee For Mobile should now be on your home screen

5. AppStore link to Simblee For Mobile:

https://itunes.apple.com/us/app/simblee-for-mobile/ id1009048292?mt=8

#### **Using Simblee For Mobile**

- 1. Enable Bluetooth on your iOS device
- 2. Open Simblee For Mobile

 A list of "Found Simblees" will appear. If you uploaded the Temperature sketch in the previous steps, you can select it from the list and it will generate an interface based on the Temperature sketch
 The temperature sketch displays a dynamic graphic along with the temperature reading of the Simblee internal sensor



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