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# Sanguino.cc

so bleeding edge, we had to make it red.

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## Designed By:

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## Sanguino for Mac OSX

### Install Arduino Software

The Sanguino uses the Arduino software and adds some small modifications to support our particular board.

First, you'll need to [install the Arduino software](#).

If you already have it installed, then skip this step.

### Install Sanguino Software

Visit the [Sanguino Software download page](#) and download the latest version of the Sanguino software.

### Copy Folders

Unzip the Sanguino software file. It contains 2 folders that need to be copied into the Arduino software directory.

- copy **sanguino-software-1.0/cores/sanguino** to **arduino-0011/hardware/cores/sanguino**
- copy **sanguino-software-1.0/bootloaders/atmega644p** to **arduino-0011/hardware/bootloaders/atmega644p**

### Edit boards.txt

Open the Arduino file located at **arduino-0011/hardware/boards.txt** and append the text from **sanguino-software-1.0/boards.txt** to the end of the arduino boards.txt file.

If you open the file in Notepad, it will look like crap. Use a decent file editor like [Notepad++](#)

### Install AVR Mac Pack

Unfortunately, arduino-0011 and below do not ship with built in support for the atmega644p chip. This is quite the bummer, because you need to take an extra step to get the

software working for you.

1. First, [download and install the latest version of AVR Mac Pack](#).
2. Second, make a backup copy of the folder in **arduino-0011/hardware/tools/avr**.
3. Finally, **copy** (not move) the folder located at **/usr/local/AVRMacPack** to **arduino-0011/hardware/tools/avr**. Its important that the AVRMacPack folder be copied to **arduino-0011/hardware/tools** and renamed to be just **avr**.

You have now replaced the low level tools (avr-gcc, avrdude, etc.) that Arduino uses to compile and upload your firmware with tools that are compatible with the atmega644p chip.

This will be fixed in arduino-0012.

Note: Since Arduino (and thus Sanguino) uses a non-standard bootloader, the avrdude shipping with AVRMacPack (or any other normal distribution) won't work. Make sure to not overwrite the one which ships with the Arduino tools. ~/=  
Marius

## Restart Arduino

Restart (or start) your Arduino host software. From the **Tools -> Board** menu, select the **Sanguino** board. You will now be able to use your Sanguino board just as you would a normal Arduino board.

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