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Arduino

Source code for Arduino "firmware"?

Asked 3 years, 3 months ago Active 1 year, 3 months ago Viewed 4k times



I am wondering if anyone here knows where the source code for the Arduino "firmware" is available for reading? I think it must be more than the 'boot loader' but I am not sure. Thanks!



p.s. I assume this kind of question is ok here, even though it's not ok on StackOverflow?



arduino-uno



asked Jun 6 '17 at 18:21 pitosalas



2 Answers

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The "firmware" is whatever program a microcontroller runs. On an Arduino, it is typically the program **you** write and upload into the microcontroller's flash memory.

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https://github.com/arduino/ArduinoCore-avr

If by "firmware" you mean the bootloader (the small program that runs at reset and will accept the upload of your firmware), is is here:

https://github.com/arduino/Arduino/tree/master/hardware/arduino/avr/bootloaders/optiboot

Note that this is valid for the AVR-based Arduinos. The cores and bootloaders used in other architectures are stored is separate repositories, e.g.

https://github.com/arduino/ArduinoCore-sam

edited Jun 18 '19 at 20:48



djvg

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answered Jun 7 '17 at 8:21



Edgar Bonet



If you are looking for the Flash Firmware, I think the github project documentation is pretty well developed, here:







https://github.com/arduino/Arduino

This is a good introduction to build and flash your Arduino UNO:



http://angryelectron.com/arduino-firmware/

And here a good start to build you own Arduino on a breadboard:

https://www.arduino.cc/en/main/standalone

answered Jun 6 '17 at 18:29



Andrew Paes 418 2

Thanks. The arduino/arduino github repo looks like java so I think it's for their IDE. Thanks for the other links, I will followup. - pitosalas Jun 6 '17 at 18:41

@pitosalas: that GitHub repo also has the source of the AVR core and a few extra libraries. - Edgar Bonet Jun 6 '17 at 19:21

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