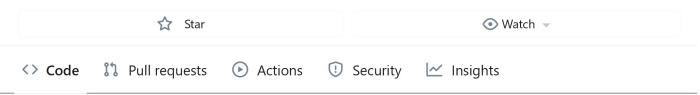
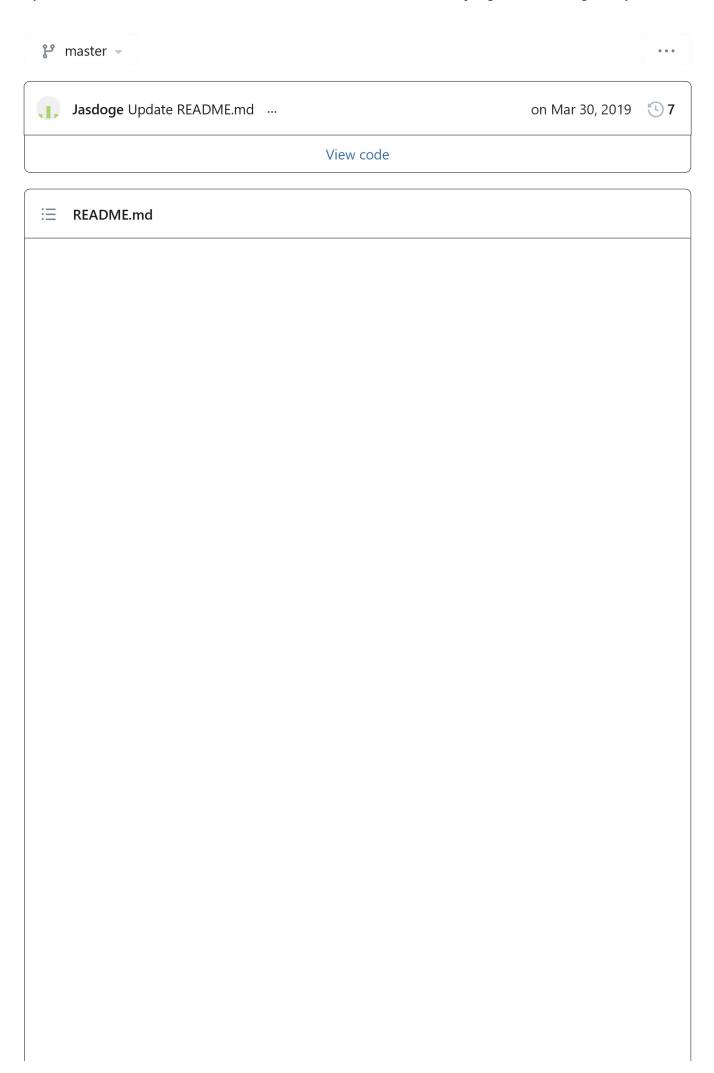


How to burn a bootloader to an Attiny85 using an Arduino UNO





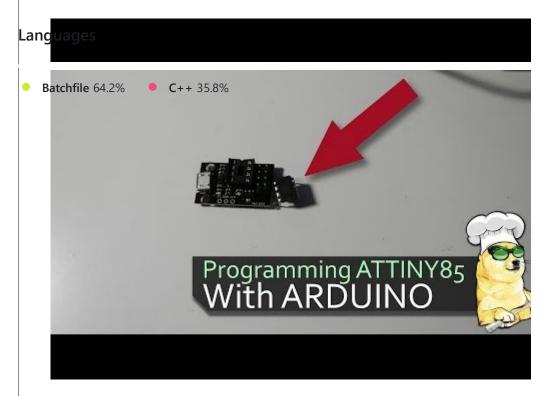


Releases

No releases publish y 85-Bootloader-Tutorial

I recently got one of those cheap chinese attiny USB socket boards and discovered Packthetsin order to use the arduino IDE, you need to burn a bootloader onto it. I found a few tutorials online, but a lot of them felt incomplete or included redundant steps. No packages published

Video:



Here's how to burn a bootloader to an Attiny85 using an Arduino UNO:

- 1. Install the Arduino IDE https://www.arduino.cc/en/Main/Software
- Install the digistump drivers https://github.com/digistump/DigistumpArduino/releases
- 3. Open the arduino IDE and go to file > preferences.
- 4. Add http://digistump.com/package_digistump_index.json to the additional boards manager URLs.
- 5. Go to tools > board > boards manager.

- 6. Search for digistump, and install Digistump AVR boards.
- 7. Connect your arduino uno via USB.
- 8. Go to file > examples > 11. ArduinoISP > ArduinoISP to open the ArduinoISP sketch.
- 9. Hit the arrow button to upload it to your arduino.
- 10. Unplug your arduino and get your Attiny85, breadboard, some wires, and a 10uF capacitor.
- 11. Wire the following:

Attiny physical pin	Arduino GPIO/Pin
1	10
4	GND
5	11
6	12
7	13
8	5V

Also connect a 10uF capacitor between arduino RST and arduino GND. If using an electrolytic capacitor, put anode on RST and cathode on GND.

- 12. Connect your arduino again via USB and go into the Arduino IDE. Check what port it's connected to. In my case it's COM3.
- 13. Edit the burn_attiny85_bootloader.bat file from this repository (right click and edit). Edit the part that says -PCOM22 to match your port. In my case since I use COM3, I'll edit it to -PCOM3
- 14. Save and copy both the bat file and t85_default.hex to your arduino install directory.
- 15. Run the bat file, and it should now burn the bootloader to your attiny85.

Uploading via arduino

After adding the bootloader, you can now upload via arduino. There's a testsketch in this repo if you just want to blink the debug LED.

- 1. Write your sketch as usual.
- 2. Connect your attiny to your USB socket board. But don't plug it to the computer yet.

- 3. In the arduino IDE, pick Digispark (Default 16.5mhz). Port doesn't matter.
- 4. Hit upload sketch.
- 5. After compiling, the IDE will ask you to plug your attiny in. Do that, and the sketch will upload.

Credits & sources: https://www.youtube.com/watch?v=Fl3s4d2l1eQ https://create.arduino.cc/projecthub/arjun/programming-attiny85-with-arduino-uno-afb829 https://digistump.com/board/index.php?topic=1841.0