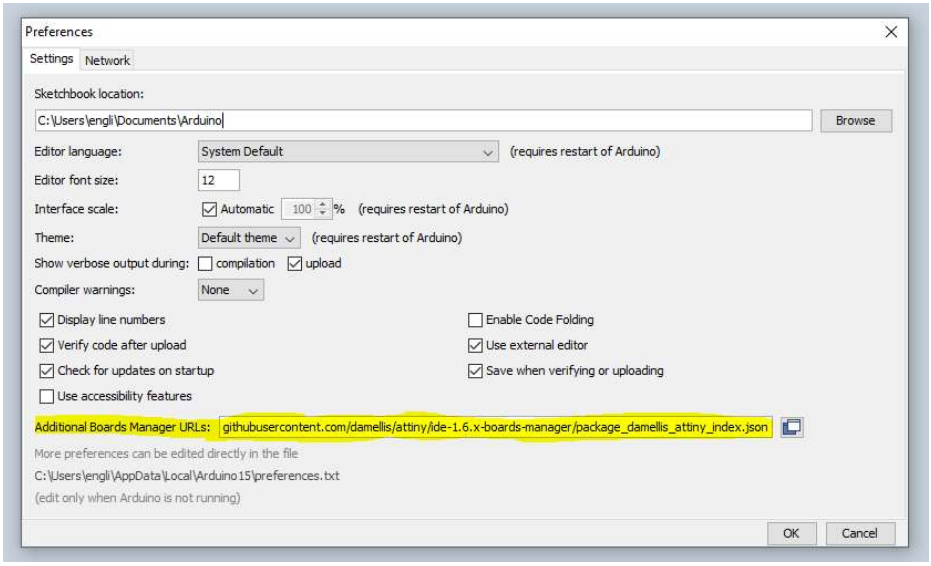
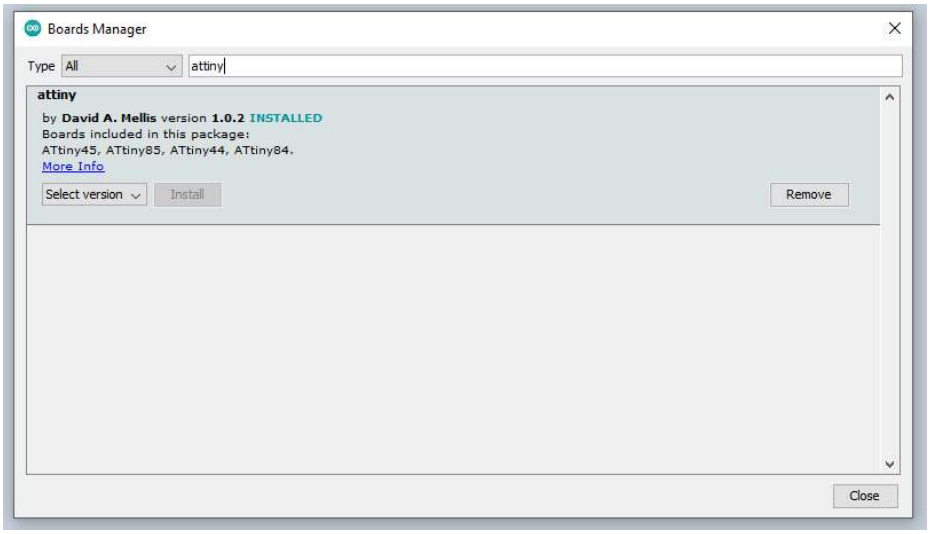
Using the ATtiny85 with the Arduino IDE

1. Prepare your Arduino Uno
    a. Your Uno will be plugged into your PC for the duration of these instructions.
    b. Load the example sketch ArduinoISP onto your Uno
        i. (File->Examples->11.ArduinoISP->ArduinoISP)
        ii. Upload to your Uno
2. Prepare the Arduino IDE
    a. Add the board manager URL
        i. File->Preferences
        ii. Add the following line to the “Additional Boards Manager URLs:”

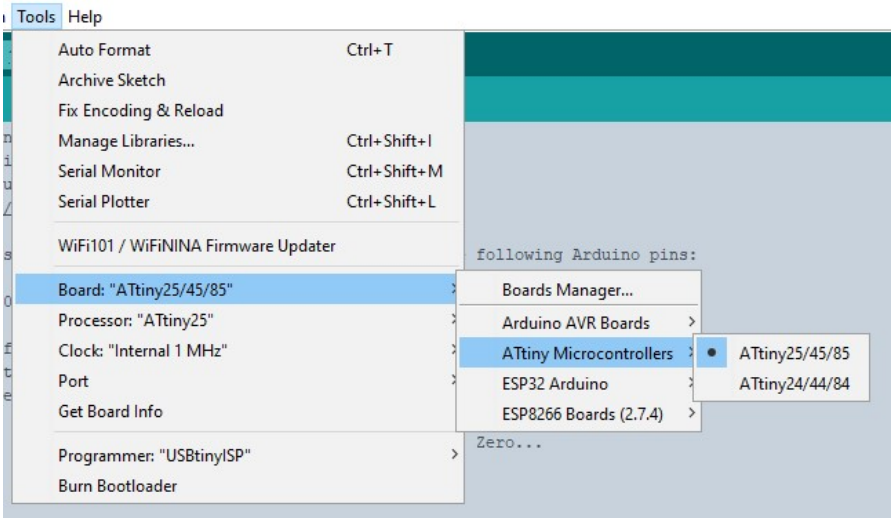


        iii. https://raw.githubusercontent.com/damellis/attiny/ide-1.6.x-boards-manager/package_damellis_attiny_index.json
    b. Restart the Arduino IDE (close it out every open sketch and open it up again)
    c. Add support for the ATtiny85 in the board manager
        i. Tools->Board->Board Manager
        ii. Search for “attiny” and install that board manager

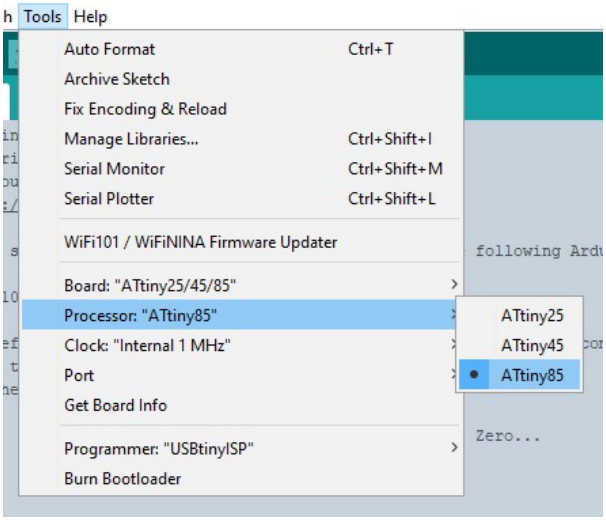


d. Restart the IDE again.

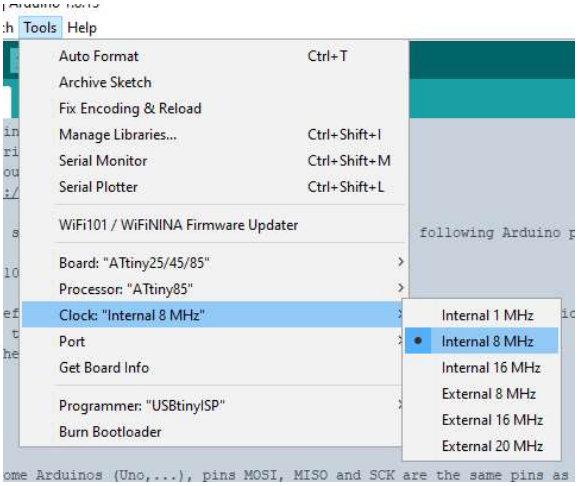
3. Change target board to ATtiny85
   a. Board -> ATtiny Microcontrollers -> ATtiny25/45/85



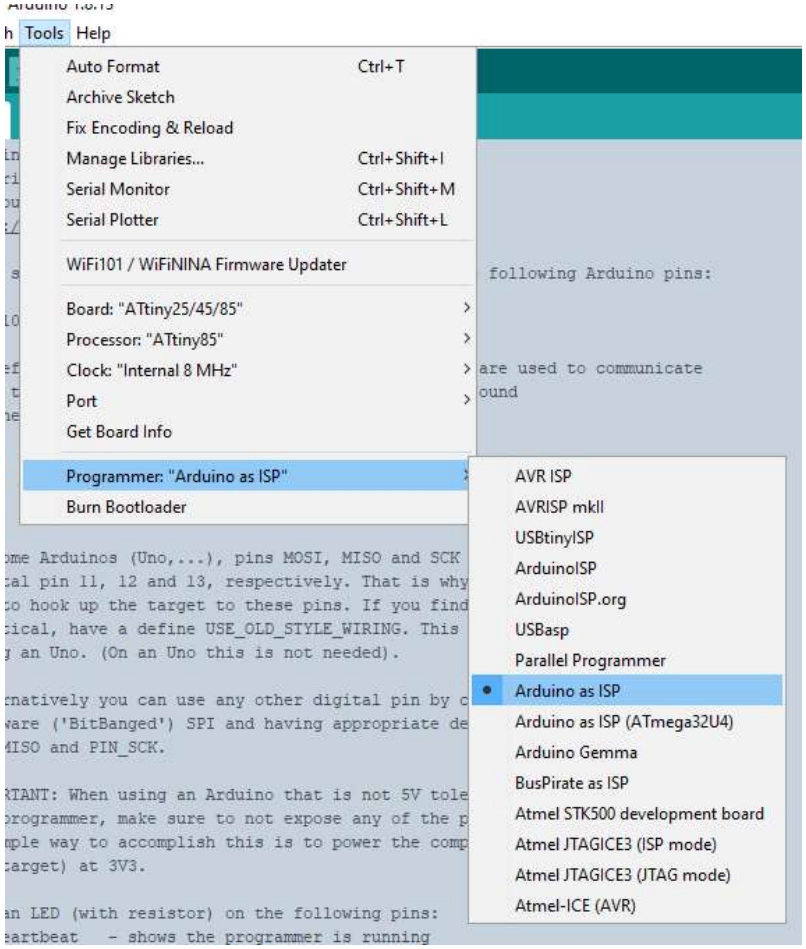
   b. Processor -> ATtiny85



   c. Clock -> Internal 8 MHz



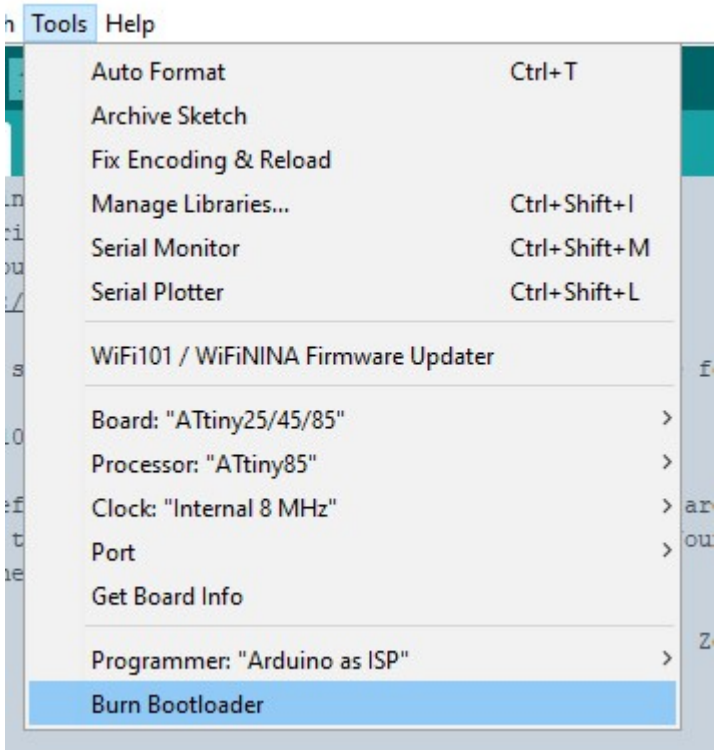
d. Programmer -> Arduino as ISP



e. (burn bootloader)

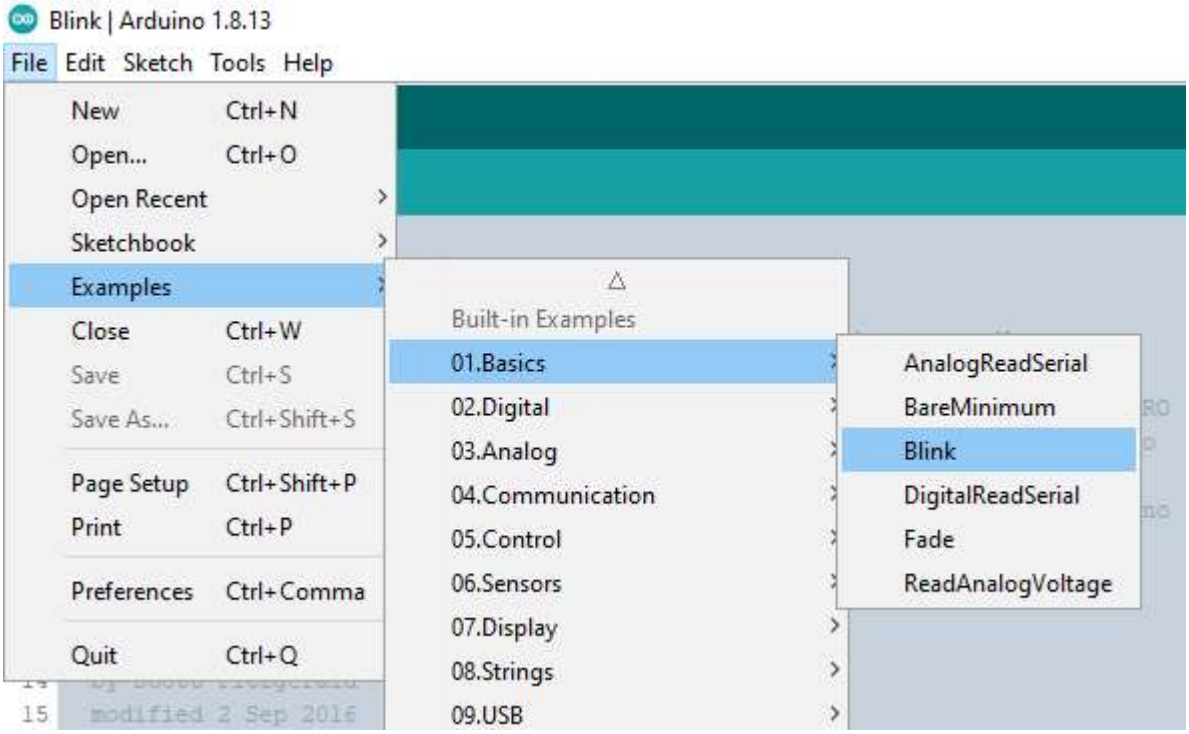
Once you have double checked all the settings above, select “Burn Bootloader”.

This sets the clock source on the ATtiny85 and prepares it to receive a program from the Arduino IDE.

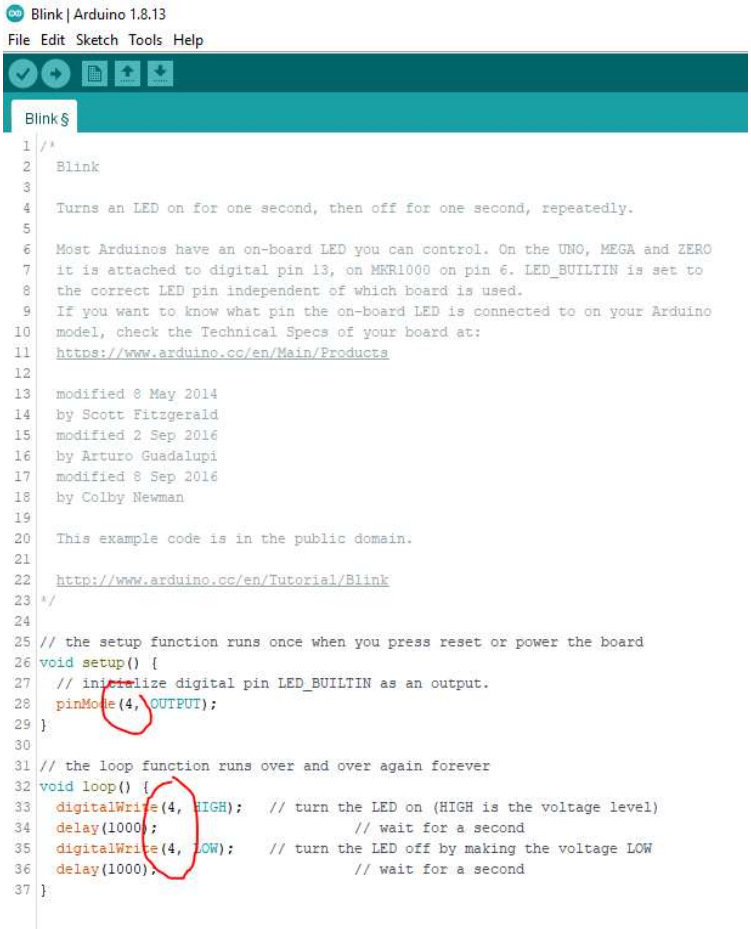


4. Test with Blink – Now we need to actually test that it works!

a. Open blink



b. LED Pin should be 4



c. Upload and see if it works!

d. If frequency is off, make sure you set the clock parameter in the tools dropdown correctly and that you performed the “Burn Bootloader” operation.