4FipS.com Forums

Forums dedicated to the projects hosted at 4FipS.com

Programming ATtiny85 using Arduino Nano as ISP

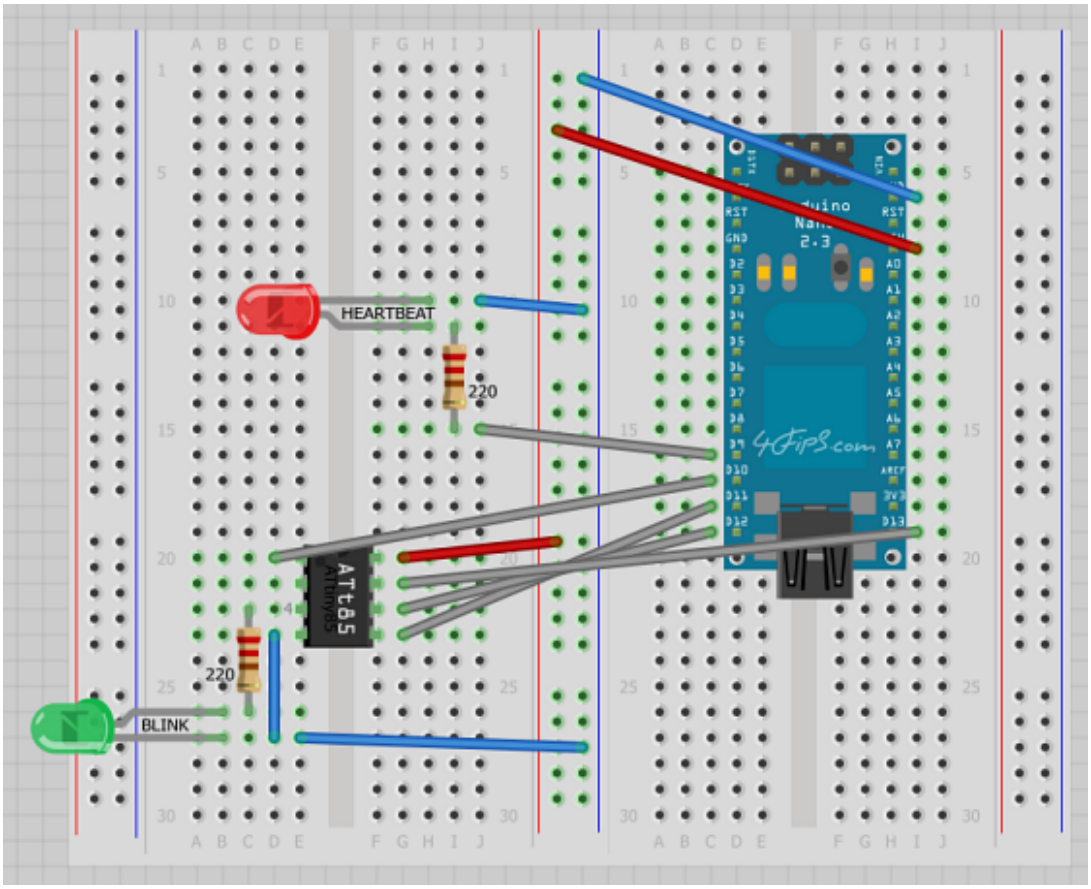
Programming ATtiny85 using Arduino Nano as ISP

by **FipS** on Mon May 27, 2013 8:09 pm

I've recently needed to reprogram my trusty little time-lapse camera trigger, which is based on the ATtiny85 microcontroller and found out that the tutorial I followed last time isn't quite complete. So I've decided to create a step-by-step guide on how to program ATtiny85 using an Arduino Nano and the Arduino IDE, mostly as a handy future reference.

Step 1 - Build the circuit:

The image blow shows the wiring. Our goal is to program the ATtiny85 to blink the green LED. Note that the red LED is for diagnostics only, it's so-called heartbeat that indicates whether Arduino has been correctly set up as a programmer, we will talk about that later...

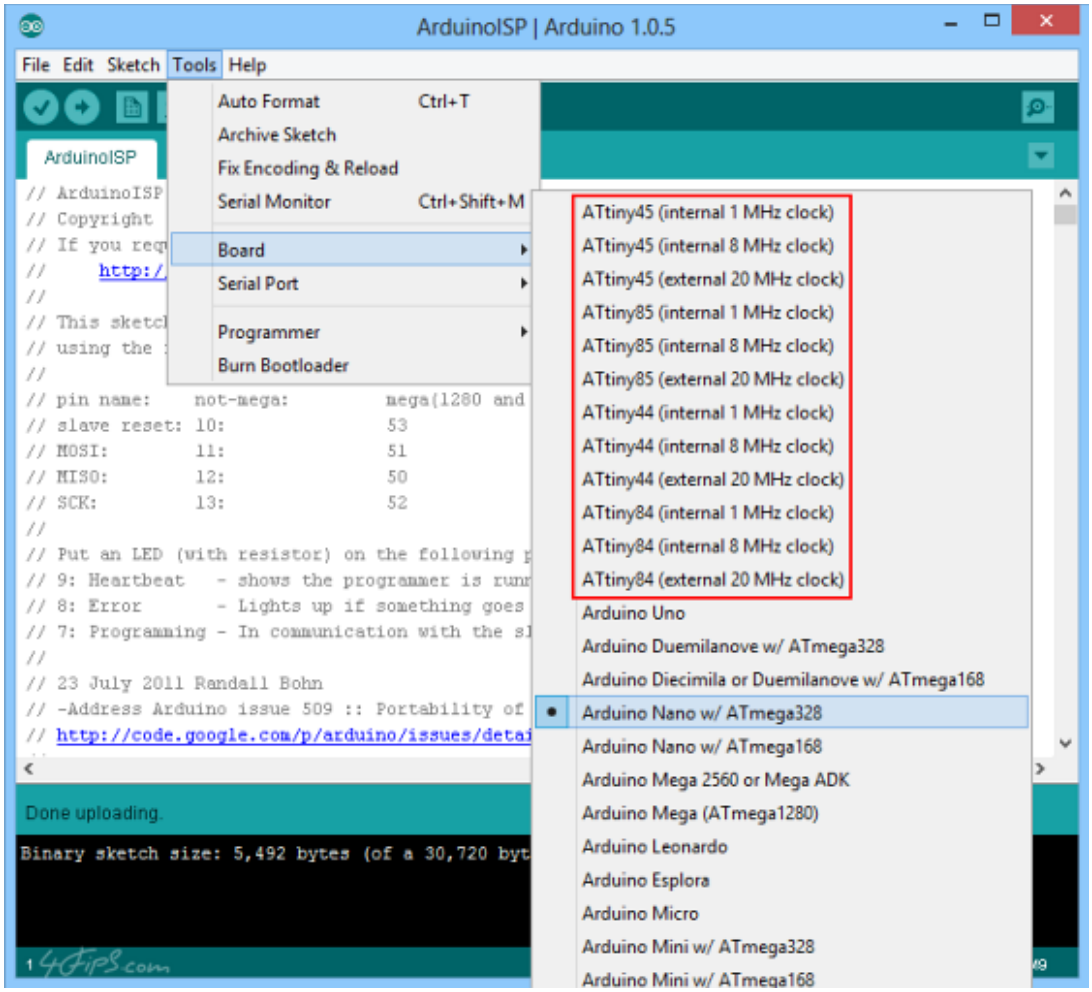


Step 2 - Introduce ATtiny boards to the Arduino IDE:

First, download attiny-master.zip, then copy the ***attiny*** directory from:
*attiny-master.zip/attiny-master/**attiny**/**

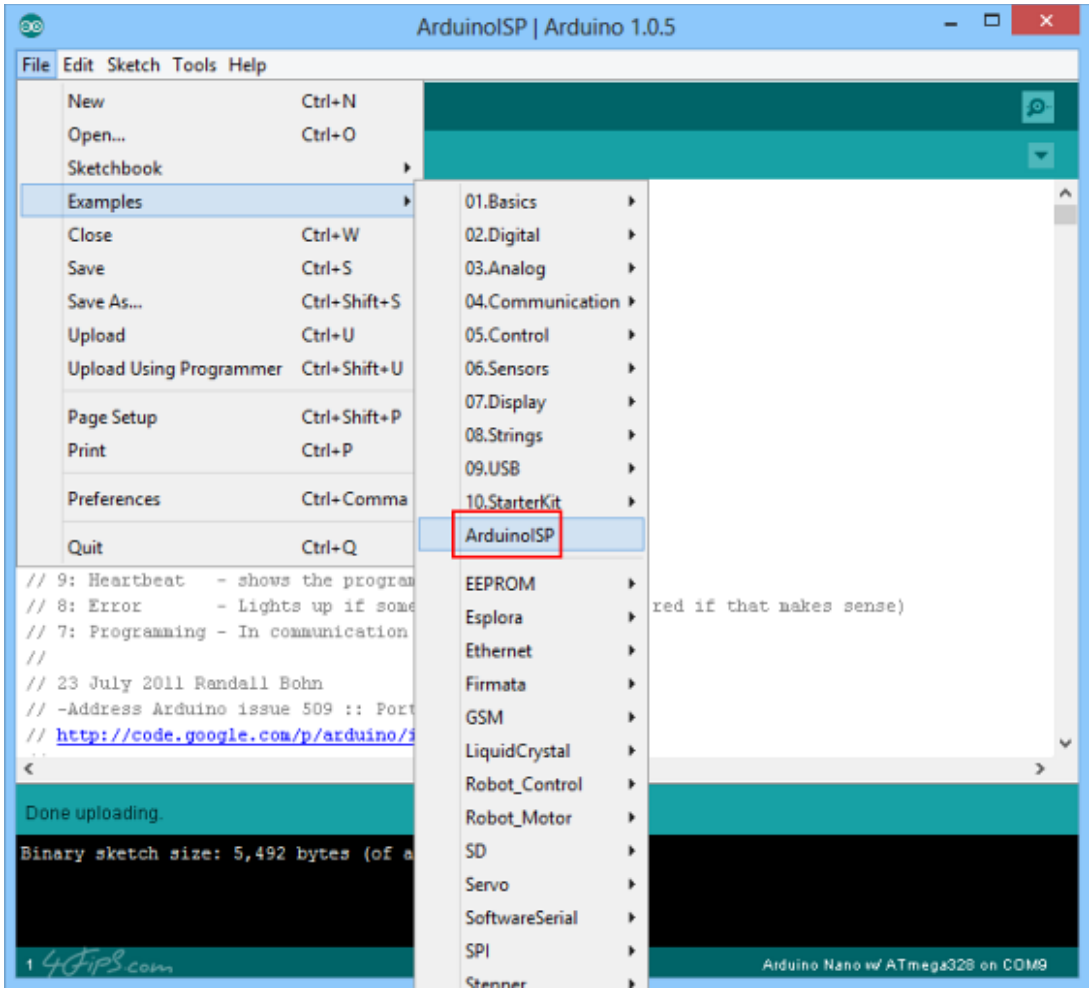
into the Arduino IDE installation directory:
*<arduino_ide>/hardware/**attiny**/**

After restarting Arduino IDE, you should see new boards ready to use:



Step 3 - Setup the Arduino Nano as a programmer:

From the main menu select: *File* / *Examples* / ***ArduinoISP***

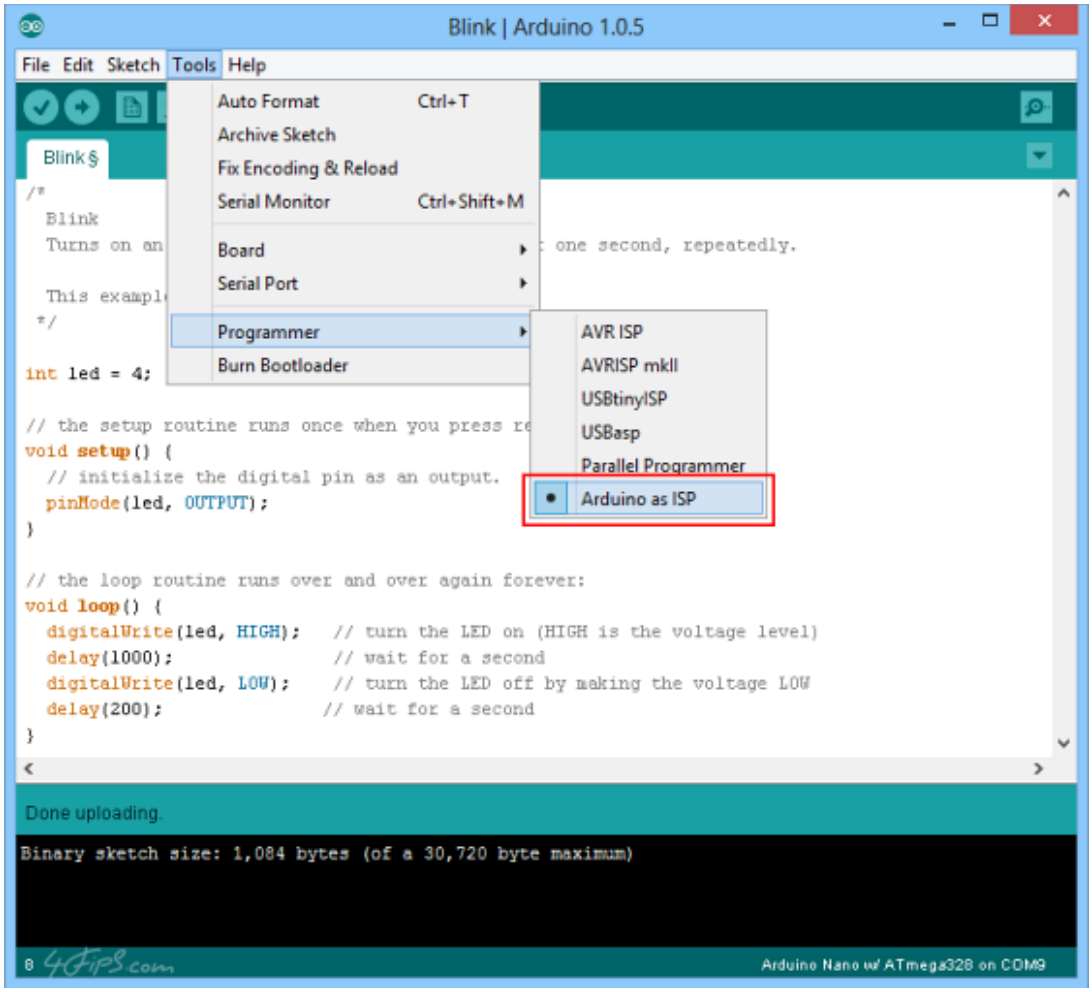


Then upload the sketch. After that, the red LED (heartbeat) should start winking.

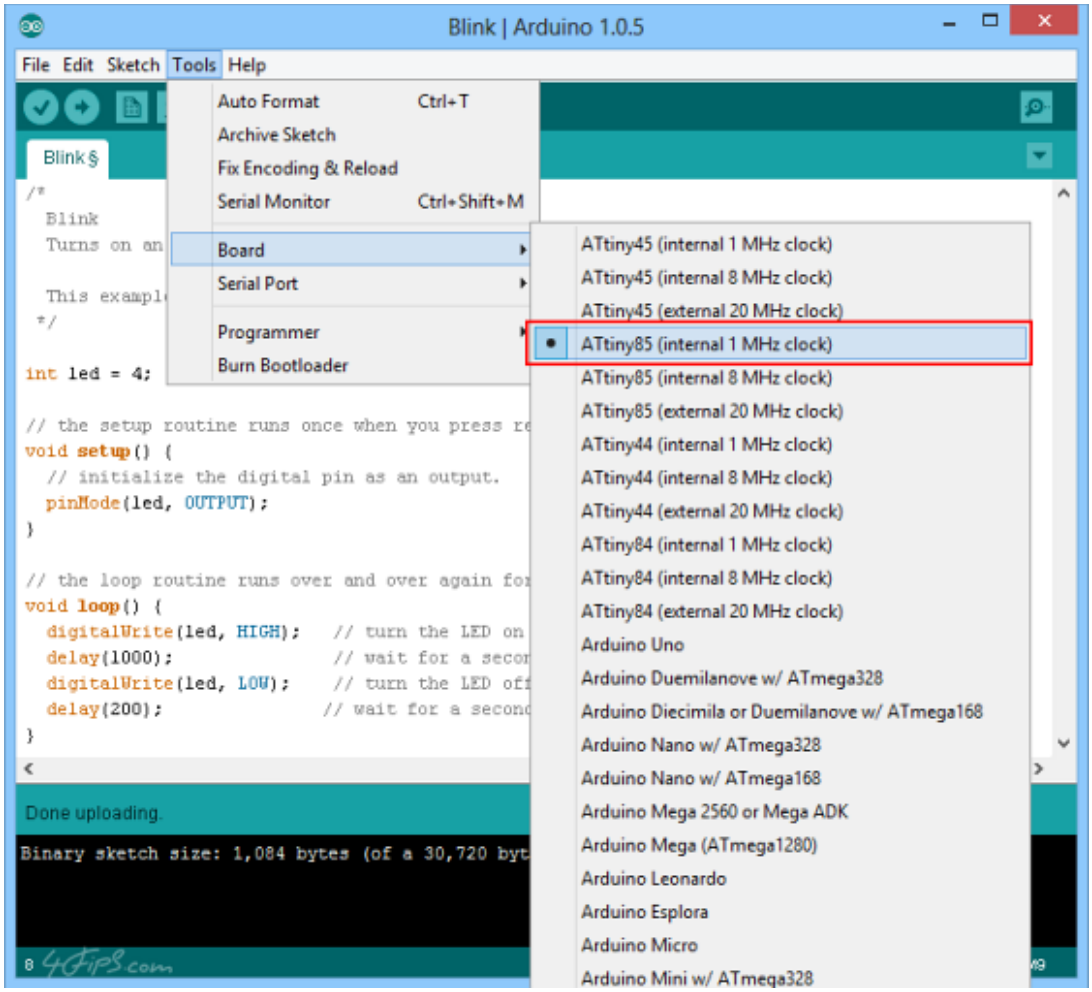
Step 4 - Upload a program into the ATtiny85:

Now open a sketch that you are going to upload into the ATtiny85. In our case we are using a modified Blink example that uses Pin 4 (which is actually Pin 3 of the ATtiny85 package).

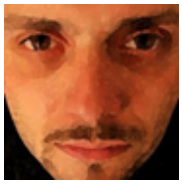
Then select: *Tools* / *Programmer* / ***Arduino as ISP***



also select: *Tools* / *Board* / ***ATtiny85 (internal 1 MHz clock)***



Now upload the sketch, the green LED should start blinking...
+++ Filip Stoklas, aka FipS, http://www.4FipS.com +++



FipS

Site Admin

Posts: 121
Joined: Wed Nov 12, 2008 9:49 pm
Location: Prague

- Website

Top

Programming ATtiny85 using Arduino Nano as ISP

Sponsor

Sponsor

Top

Post a reply

1 post • Page **1** of **1**

Return to 4FipS.com General Discussion & Blog

Jump to: 4FipS.com General Discussion & Blog Go

Who is online

Users browsing this forum: No registered users and 1 guest

- Board index
- The team • Delete all board cookies • All times are UTC