DIY Magic Mirror

Software Installation v3.3

PC (Windows XP, Windows Vista, Windows 7)

PC DIY Magic Mirror Software Installation Instructions (Windows XP, Vista, and Windows 7)

1 Download and install the DIY Magic Mirror Software from http://diymagicmirror.com/install-pc.html. The installation program will install the Magic Mirror software and all necessary components under "C:\Program Files\DIY Magic Mirror" or "C:\Program Files\DIY Magic Mirror (x86)" if your OS is 64-bit. Do not change this installation directory.

Its recommended to run the Magic Mirror at a resolution of 1024 x 768.

IMPORTANT: If your OS is Windows Vista or Windows 7, you must run the installation program as administrator. Right click on the setup file and then choose "Run as administrator"
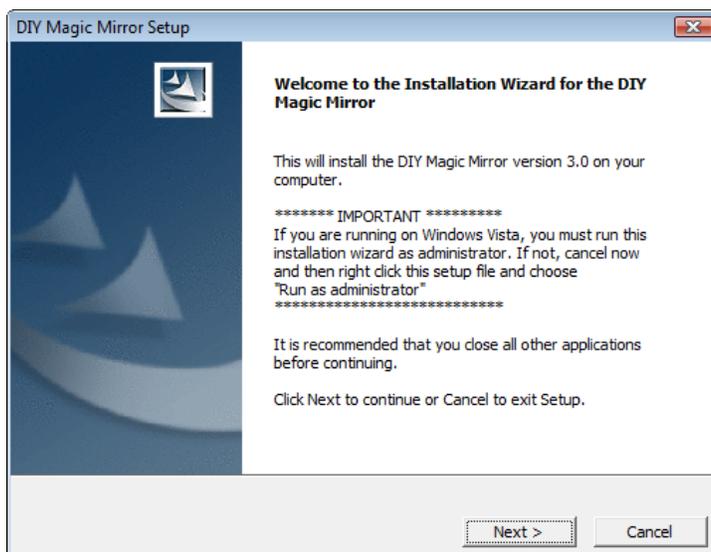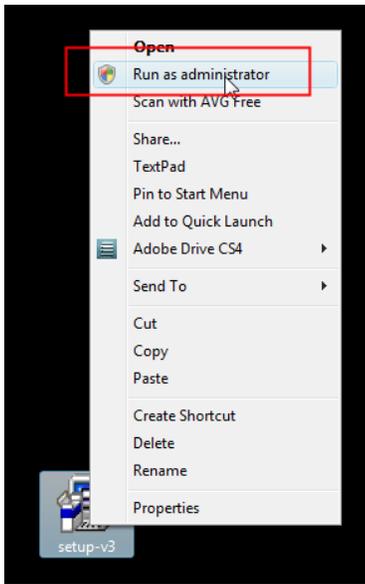
2 Plug your Magic Mirror Sensor Hub into your PC with a USB cable.

3 Install the USB serial port driver. Follow these prompts and use the path "C:\Program Files\DIY Magic Mirror\utils\arduino-0017\drivers\FTDI USB Drivers" or "C:\Program Files\DIY Magic Mirror (x86)\utils\arduino-0017\drivers\FTDI USB Drivers" for the drivers.
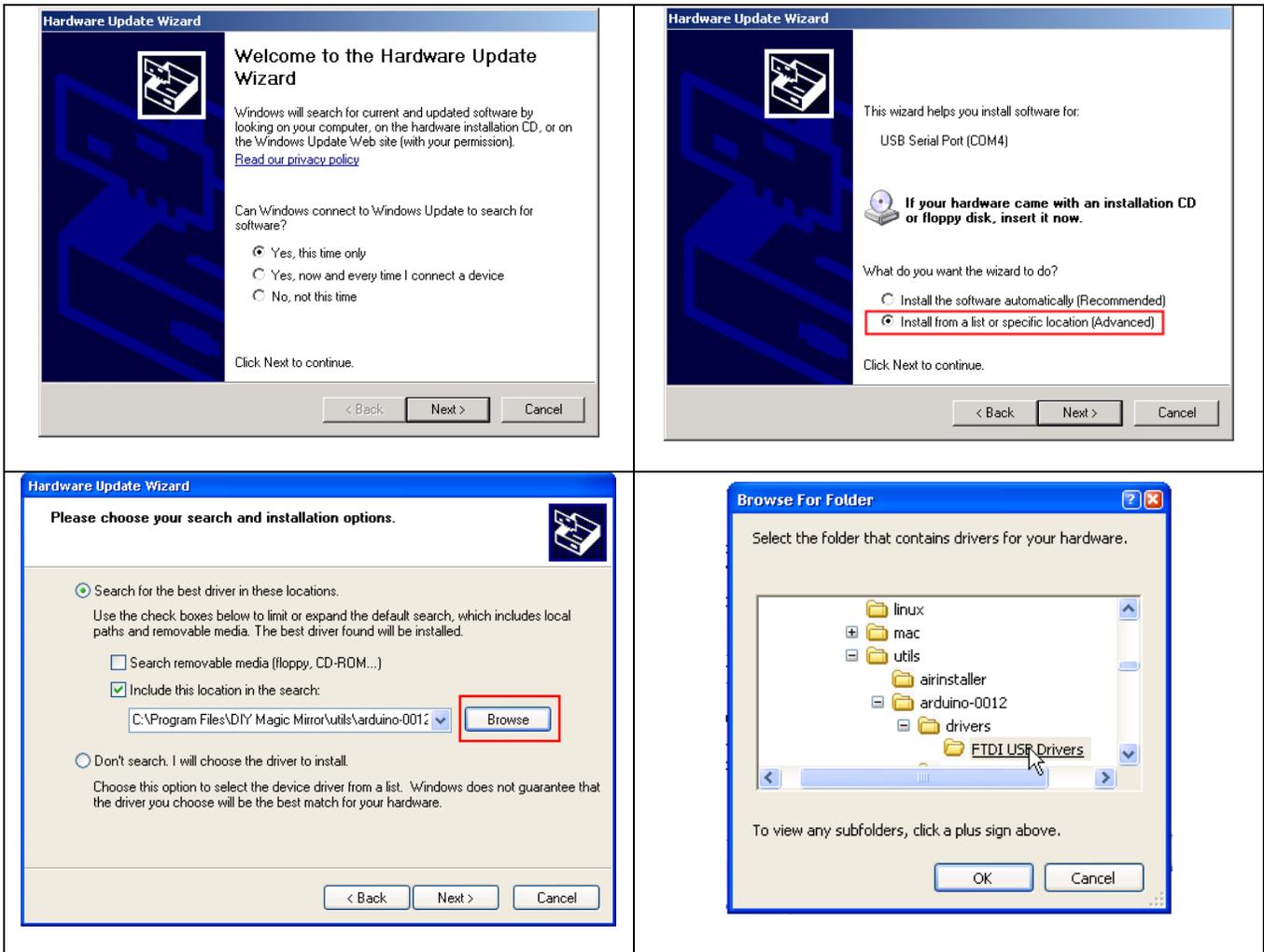
After installing the driver, you may be prompted to run through the same screens a second time.

The driver should automatically install on Windows 7.
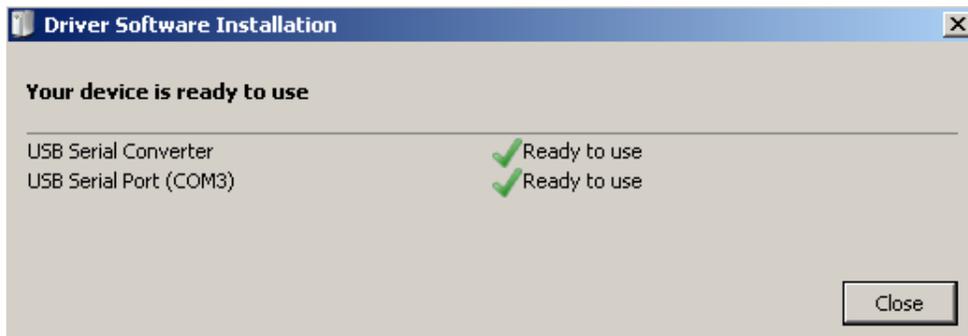
4 Once installed, the Magic Mirror Sensor Hub or Arduino will appear in device manager as a **USB Serial Port**. In this example, the Arduino is on COM3. Type "**devmgmt.msc**" from the run command to go directly to Device Manager. Make a note of the COM Port number as you'll need this later.
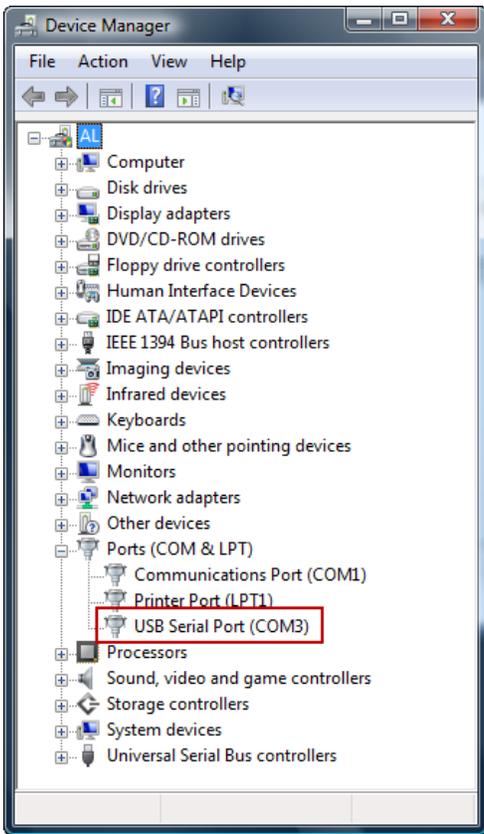
Note: The Magic Mirror will not function if the assigned USB Serial Port is COM10 or higher. If this happens, then go into COM Port advanced settings and change to a lower number.
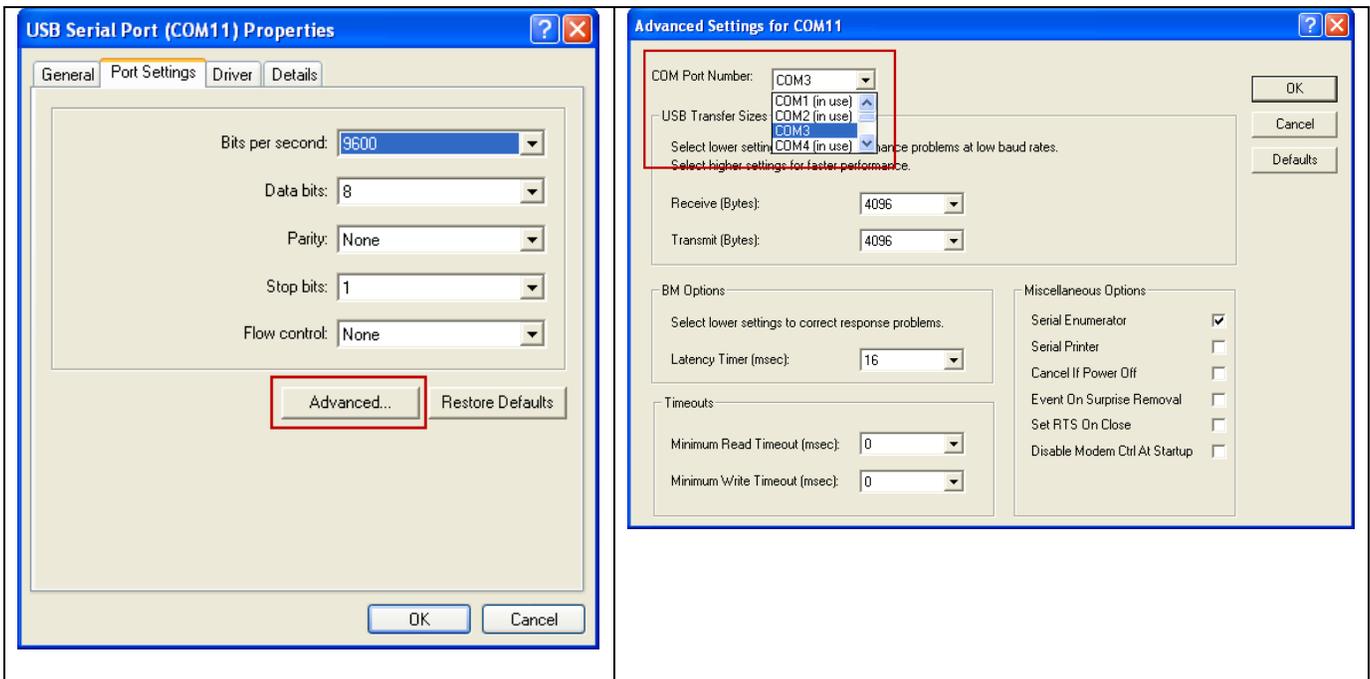
5 Skip this step if you purchased the Magic Mirror Sensor Hub and go directly to Step 6. Once uploaded, the firmware (Firmata) will remain on your Sensor Hub permanently so you only need to do this once.

a. Launch "Download Firmata Firmware to Sensor Hub (do this once)". IMPORTANT: You must run as Administrator if your OS is Vista or Windows 7.
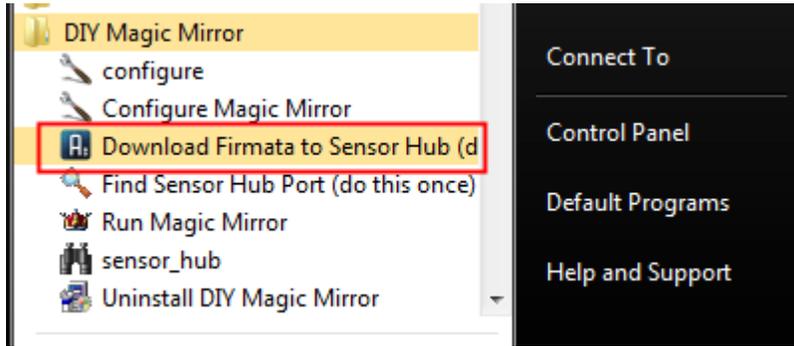
b. Select the BOARD, be sure to select the ATmega168 or the ATmega328 depending on your Arduino version. Select the COM Port.
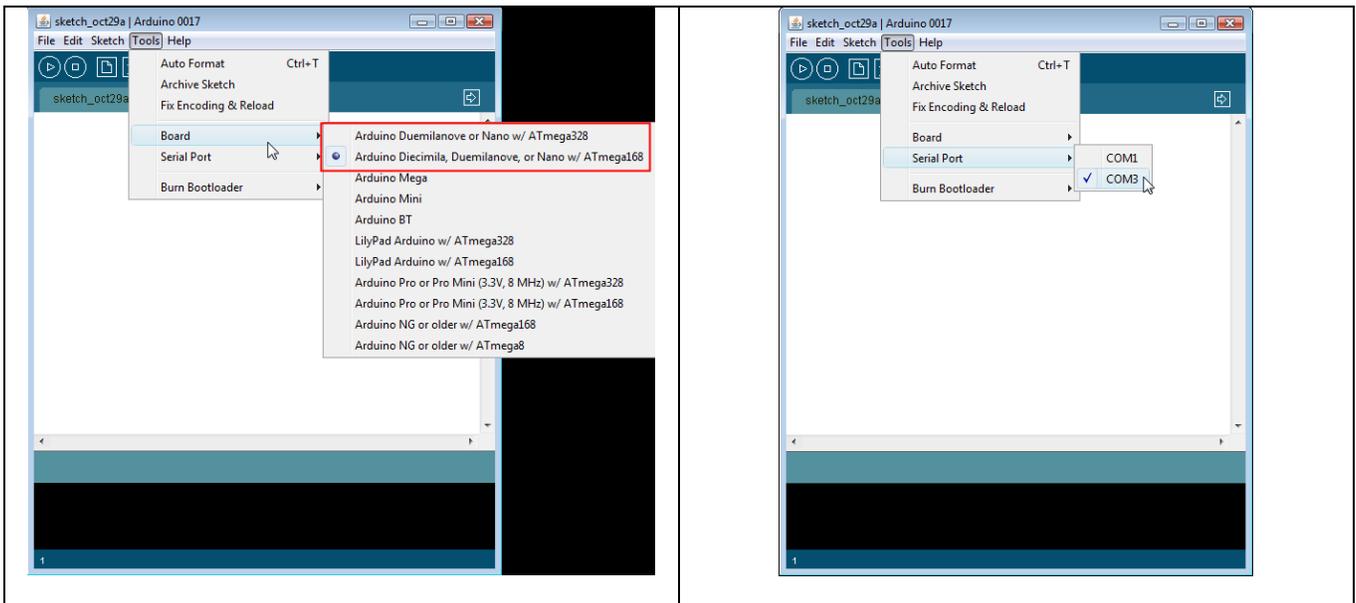
c. Open "C:\Program Files\DIY Magic Mirror\utils\arduino-0017\Firmata2\StandardFirmata\ StandardFirmata.pde" IMPORTANT: You must use this version of Firmata, the Firmata that comes with the Arduino IDE will not work with the Magic Mirror.
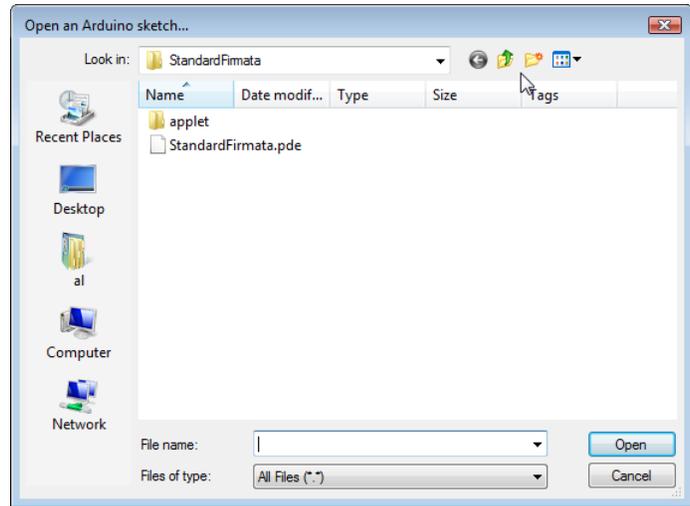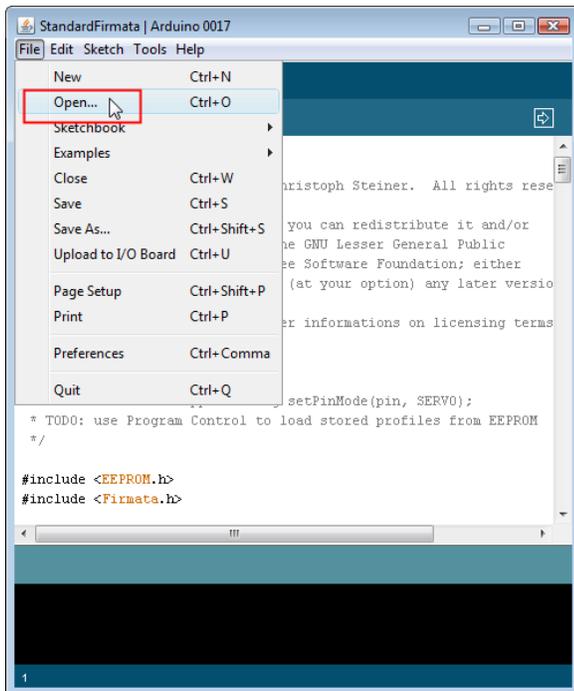
d. Verify and then Upload to the Arduino. While uploading, you will see the TX and RX LEDs flash on the Arduino. "Done Uploading" will display at the bottom of the screen when finished. If it does not upload correctly, see http://arduino.cc/en/Guide/Troubleshooting#toc2. Close when finished.
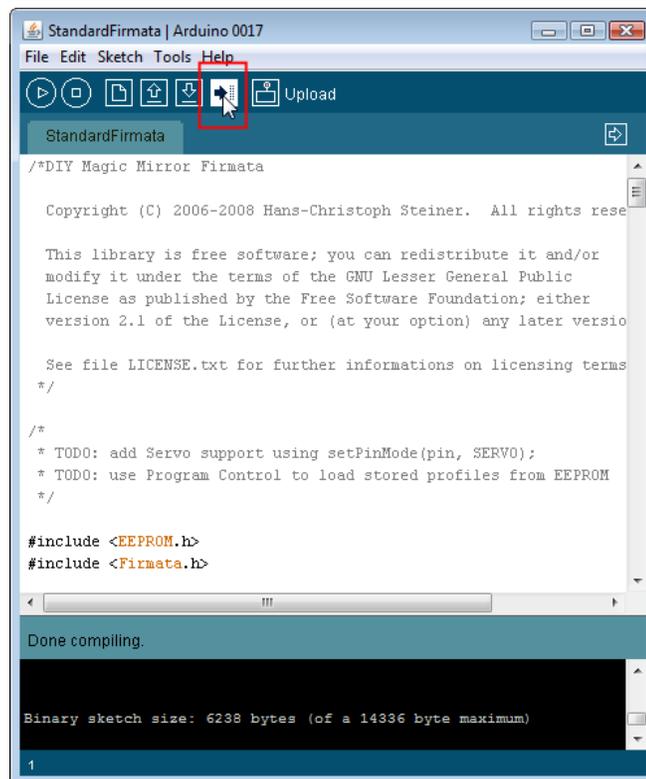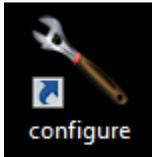
6 Launch "configure"

Select the Magic Mirror Sensor Hub Port. If your Sensor Hub is on COM3, then choose 5333. If on COM4, then choose 5334 and so on.

7 IMPORTANT: Only sensors that are wired up and connected should be set to **ON** which would be the < Character Select Potentiometer > input with the Magic Mirror Sensor Hub. All other switches/sensors that are not yet hooked up must be left **OFF** until they are hooked up or you'll overload your computer with false sensor readings and potentially crash the software. Click "Save" when finished.

8 From the desktop, launch the Magic Mirror program . If you see < Sensor Hub Found on Port: 533x> where x is the com port number of your sensor hub and one of the characters is playing, then your Magic Mirror software is installed correctly. Now refer to the DIY Magic Mirror Operations Manual for instructions on how to wire up the sensors and configure the Magic Mirror.

Turn the character select knob to see the character change.

If prompted by your Firewall, instruct it to permanently unblock serproxy.exe.
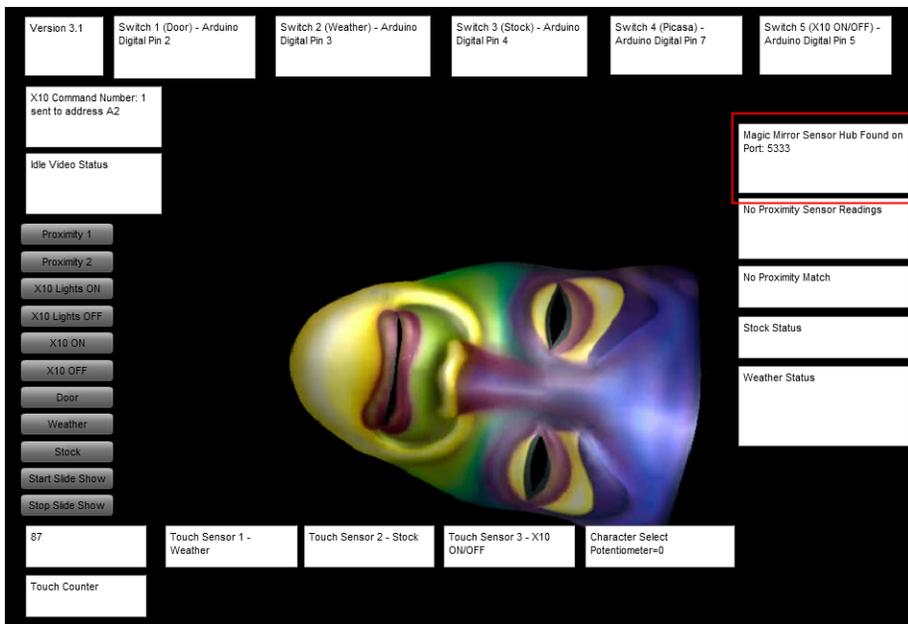
Adobe AIR will periodically prompt for automatic updates. To disable Adobe AIR automatic updates, run this application http://airdownload.adobe.com/air/applications/SettingsManager/SettingsManager.air and then disable automatic updates.