

ECET 130 - Lab 1

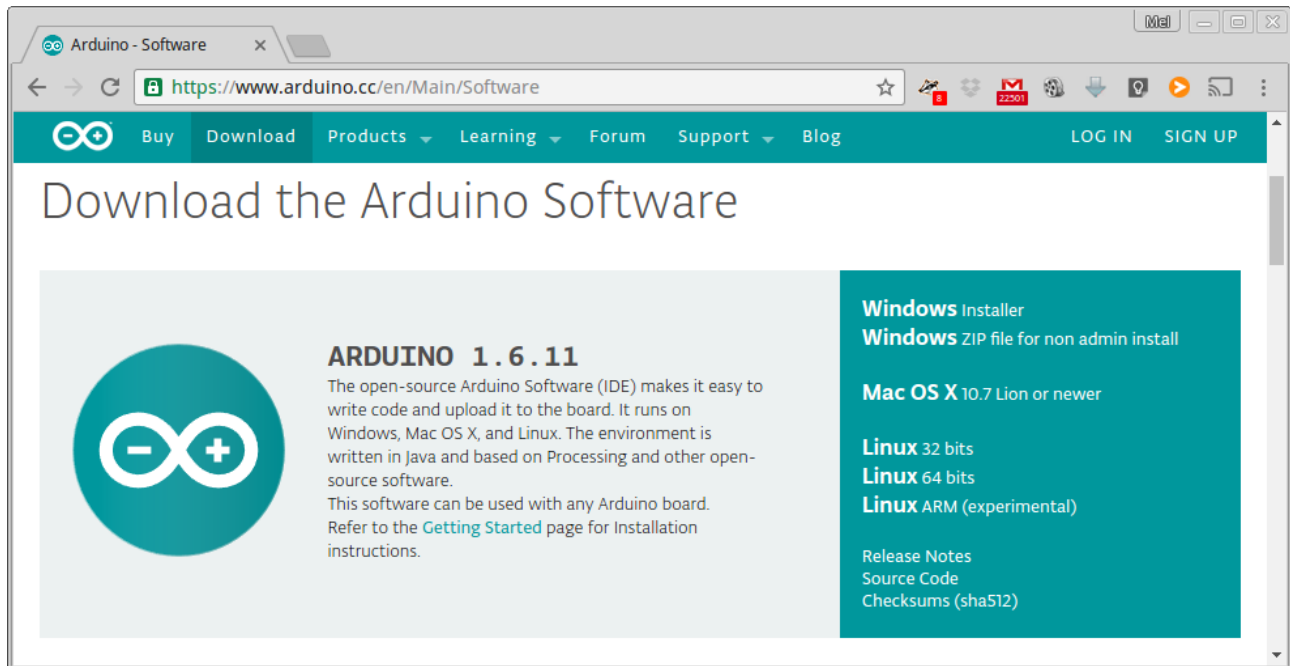
Intro to the Arduino Uno

Part1:

Download and extract the latest stable version of the Arduino IDE .

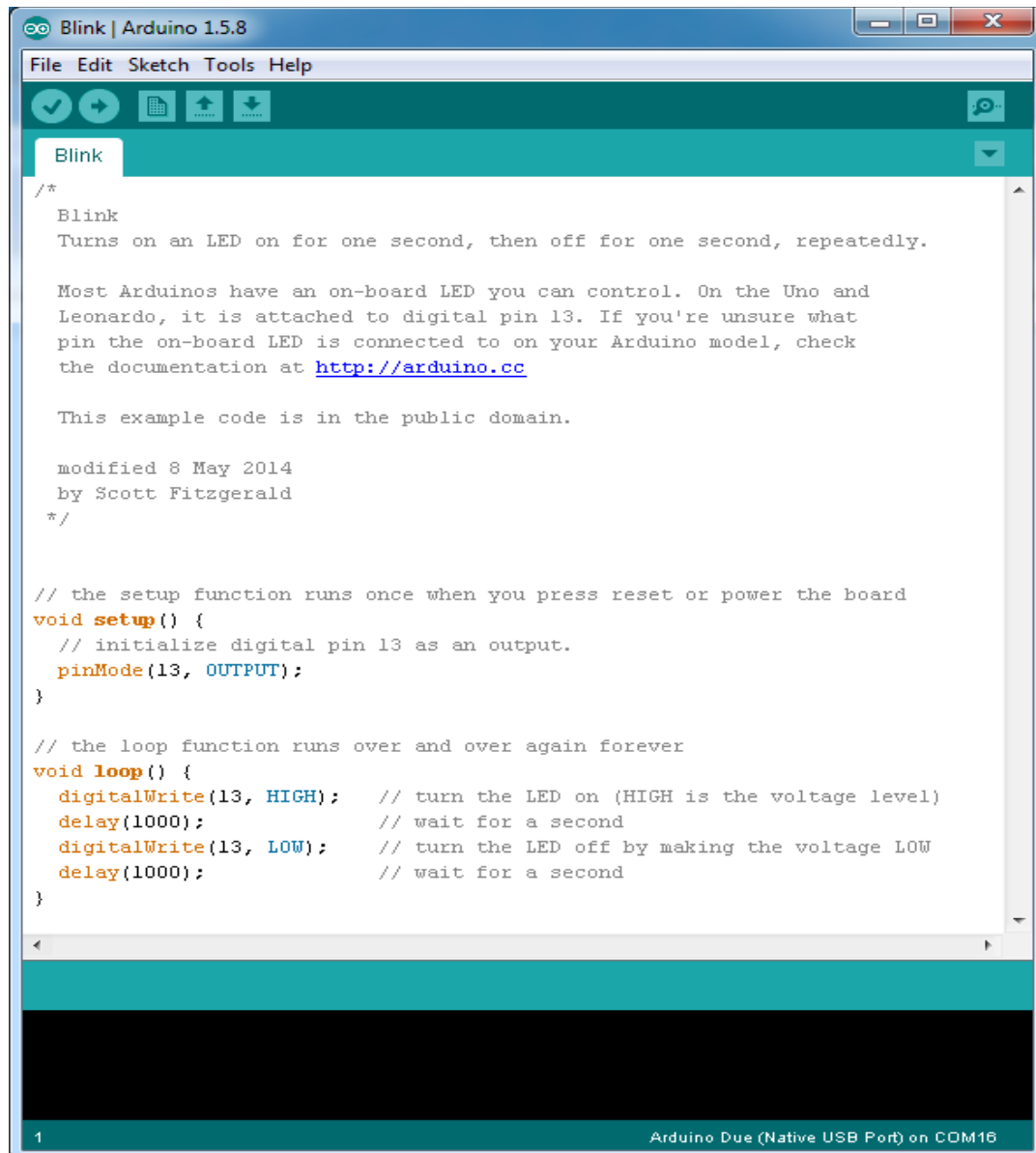
<http://arduino.cc/en/Main/Software>

Use the Windows zip file for non admin install.



Launch the Arduino IDE by double clicking its icon.

Select File – Examples – Basics - Blink.



Click on Sketch – Verify/Compile or click the checkmark icon.
This compiles our program.

Connect your Arduino Uno board into the computer.
Select Arduino Uno under the Tools – Board menu.
Make sure that the right USB port is selected under Tools – Port.
Click the right arrow (under the edit button in the IDE) to upload your code to the Uno.

Your board should now be blinking the green LED on the board at a one second rate.

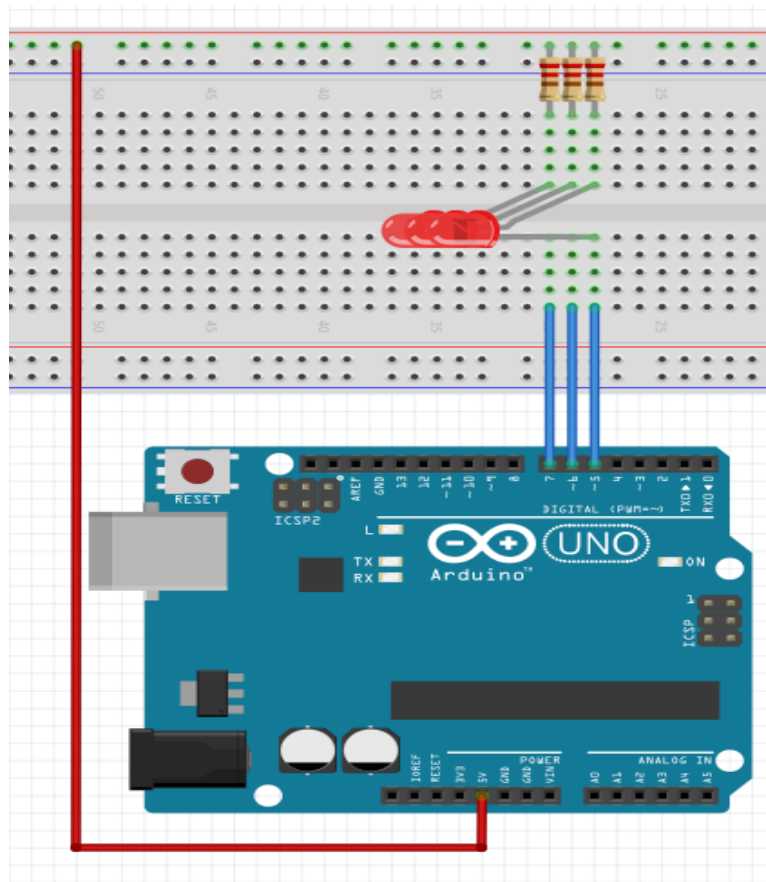
Part 2:

Make an ECET130 directory using your file manager. Click File Save As and select the ECET130 directory to save your blink copy in. Save the file as Lab1.

Modify the code to blink your LED at a 200 mS rate. Compile and upload your code to verify it works.

Part 3:

Using a breadboard, connect 3 LEDs to your Uno on pins 7, 6, and 5. Make sure you use 220 ohm current limiting resistors. Modify the code to turn on and off each LED in turn from left to right at a 250mS rate. This code should run forever. Only one light at a time should be on.



Submit your modified and appropriately commented blink.ino code for Part 3 to the dropbox Lab1 folder by the start of lab Week2. Be prepared to demo your code in Lab2.