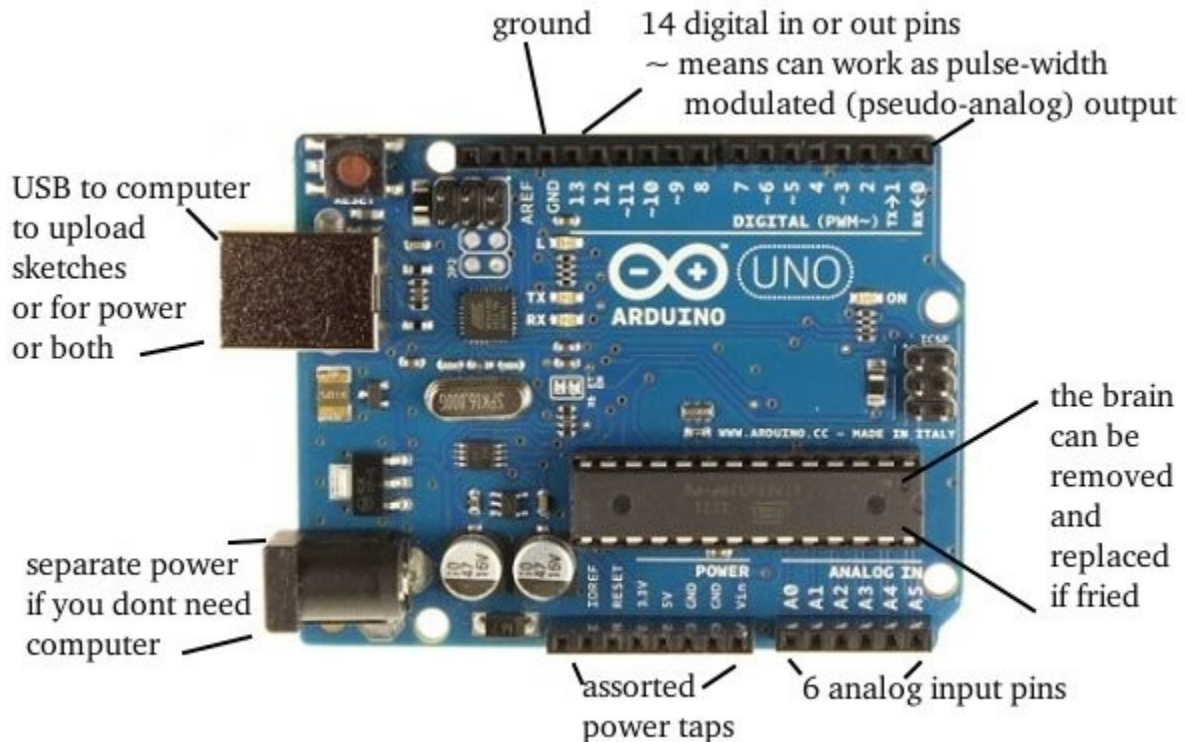


Arduino Board

You have Arduino Uno Rev 3. Take a look and identify the various pins etc.

Make sure, when you work, that it's sitting on an INSULATING SURFACE.



The Arduino gets power either from the USB cable, or from the separate power jack. You don't need both. If you are working with a computer, just use the USB since you'll also use it for communication and uploading code to the Arduino board. Once you have a program “done” and working though, the device could run with power supplied and no connection to the computer.

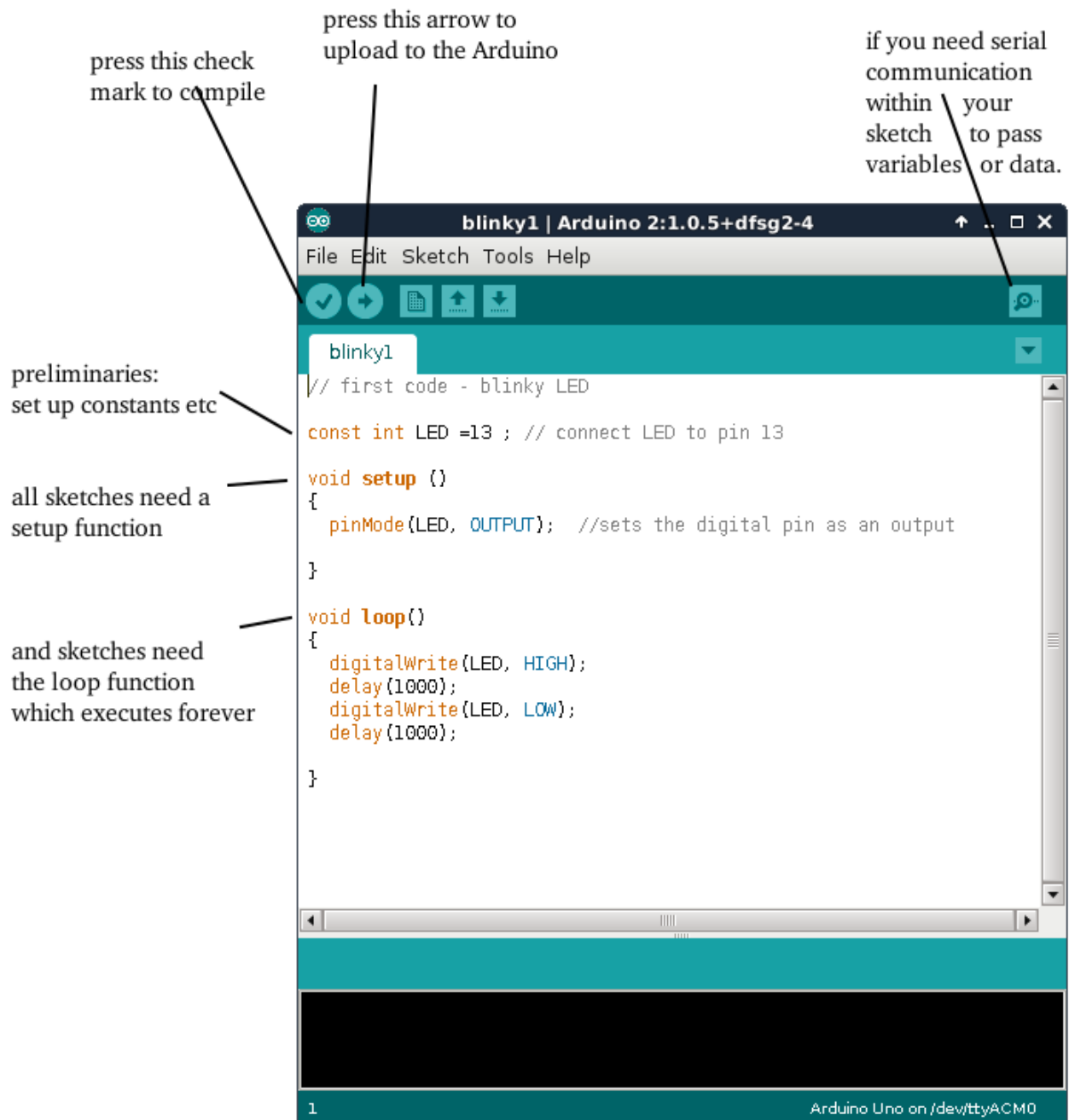
Note that the Arduino digital pins can NOT SUPPLY MUCH POWER. They are limited to ~30 mA at 5 V. If you try to suck more current out of them, you will DAMAGE THE BOARD. You must always consider how much current your circuits will draw.

The power tap pins also have severe current limits. Make sure your circuit draws:
 <150 mA for the 3.3 V tap, and
 < 400mA for the 5 V.

Arduino IDE

Software you write, that runs the Arduino, are typically known as “sketches”. Do your code development using the Arduino IDE (Integrated Development Environment). You should download and install this from <https://www.arduino.cc/en/Main/Software> . It is free and open source.

The IDE gives you a GUI interface. Here's a screenshot of a sketch called `blinky1` .



General Electronics Suppliers

commercial grade stuff: both are very fast shipping, quite cheap, but have a bewildering nightmare of too many choices in catalog.

www.digikey.com

www.mouser.com

hobbyist stuff:

www.jameco.com these guys are halfway between hobbyist and pro

www.adafruit.com

www.sparkfun.com

Most of the components in these kits came from sparkfun and adafruit. They have datasheets available on their websites if you want additional info about the devices. They both have a lot of fun tutorials and instructions, too.

in town:

Goldcrest Electronics 700 South Goodman St, Rochester 14620
546 – 8464
open M-F 8 AM to 5 PM, Saturday 9 AM – 3 PM, closed Sunday

Radio Shack is still open on West Ridge Road near the Best Buy, and has a few components