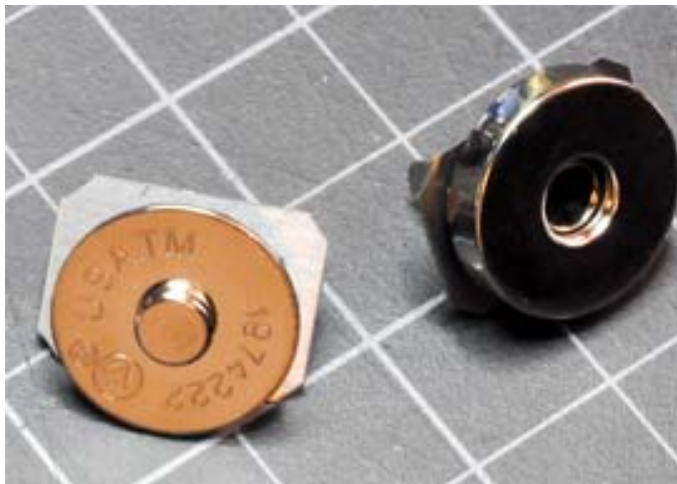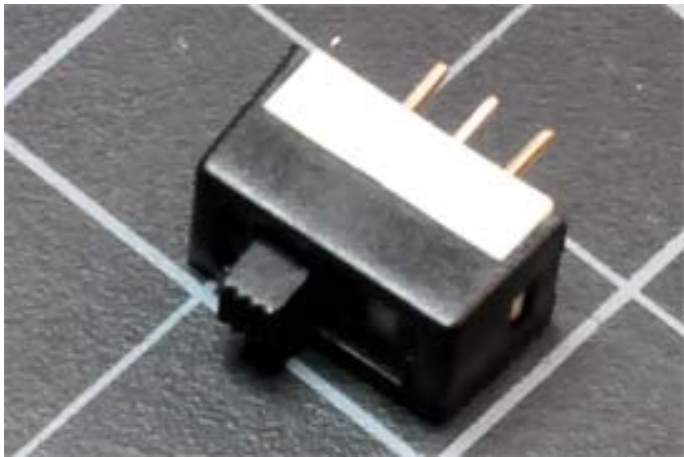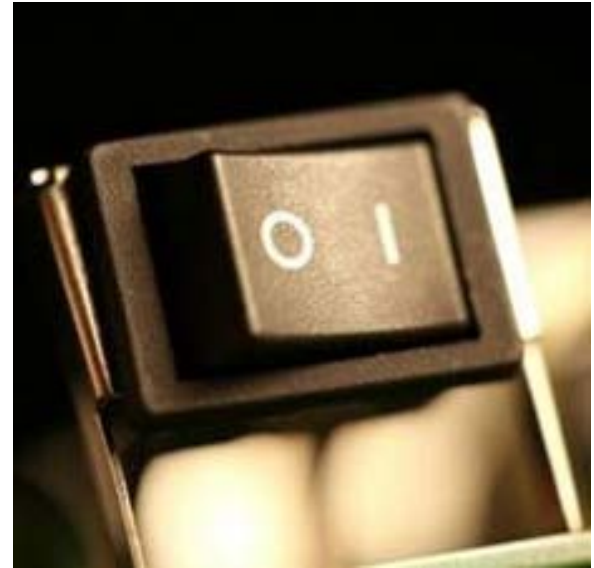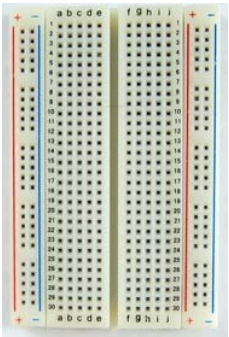BUTTONS

SWITCHES

What we will need to set up the breadboard for a blinking LED
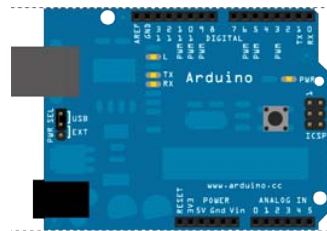
1. Breadboard   2. LED   3. Arduino   4. USB   5. wires   6. 1 resistor

gold

Brown
Black
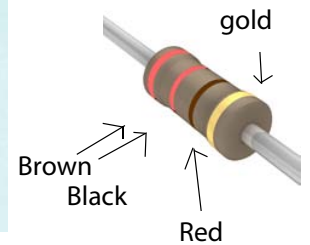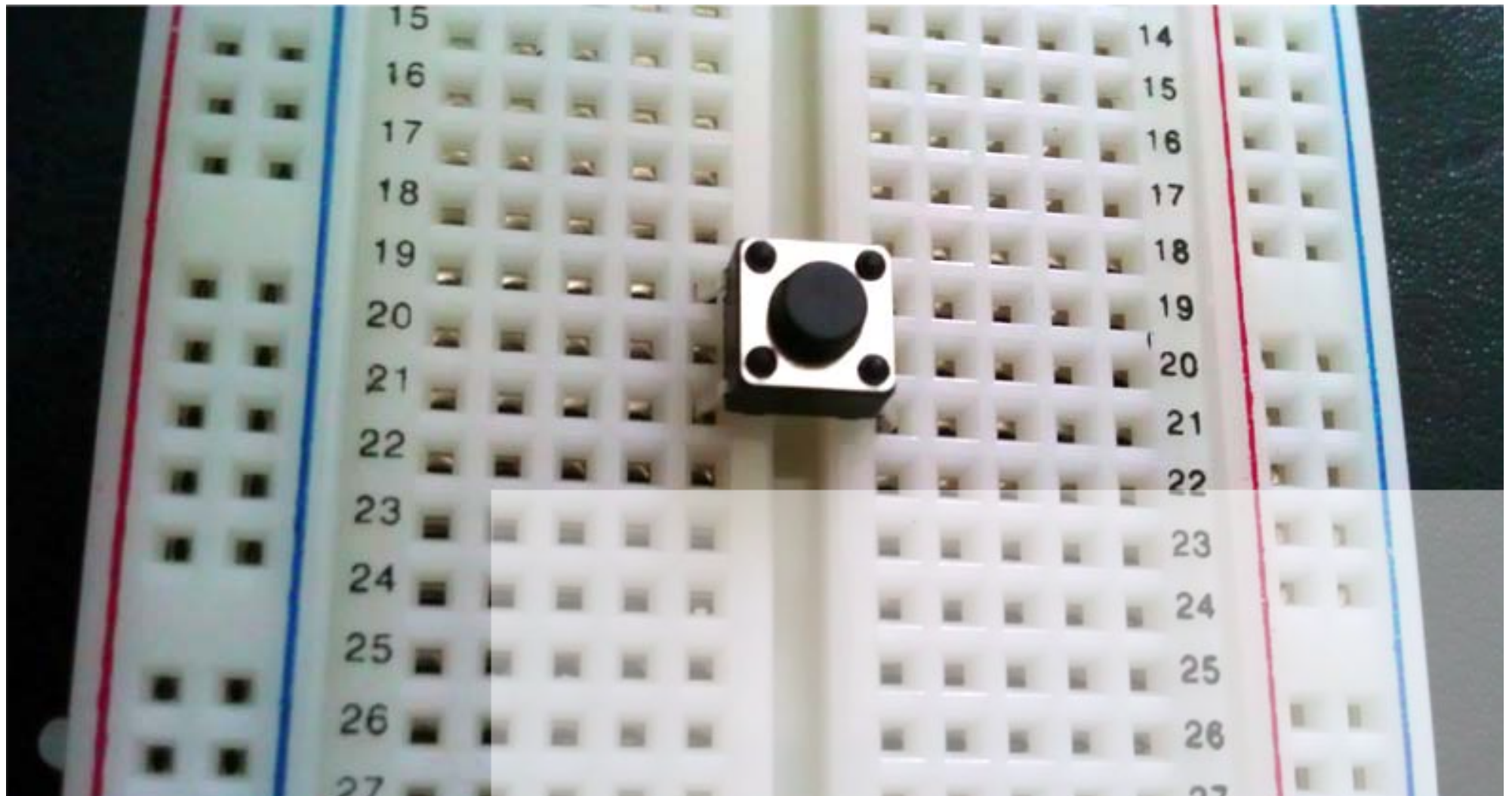
Red
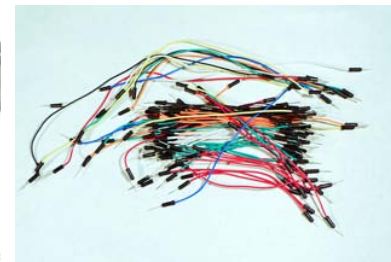
7. 1 BUTTON

your button has four legs:

Put the button along the middle row.

Two legs will go across ROW 19.
Two legs will go across ROW 21.

The legs will spread across the strip of the breadboard with no holes.

1. Put the RED wire going from the hole on ARDUINO that says 5V to a hole on the
the BREADBOARD on ROW 21.

2. Put the BLACK wire going from the hole on the ARDUINO that says GNS to any hole on
 the BREADBOARD on ROW 14

3. Put a YELLOW wire going from the hole in ARDUINO that says 2 to a hole in the BREABOARD
that says 19

4. Put one side of the RESISTOR in a hole in the BREADBOARD on ROW 19 and the other side in a hole
 on ROW 14
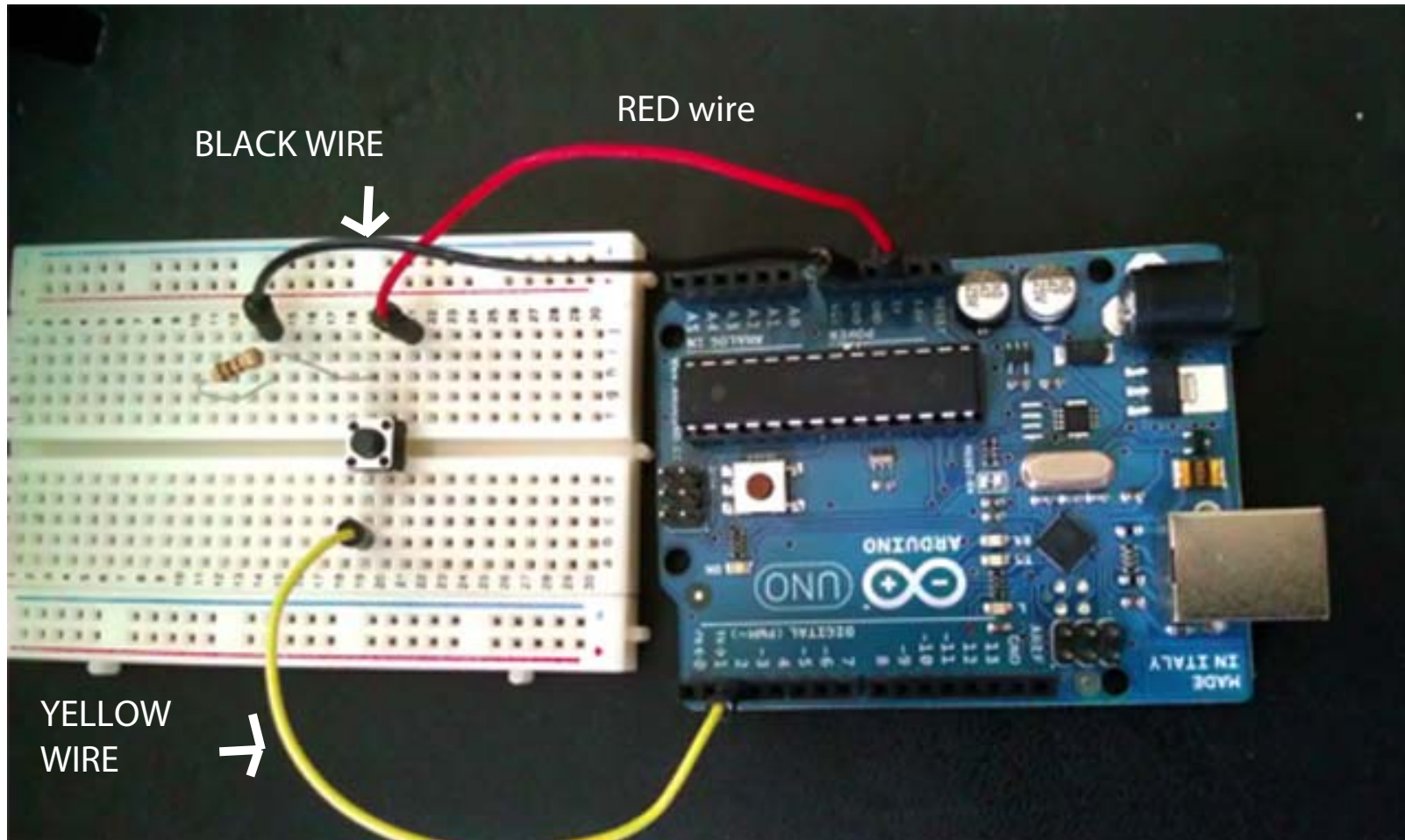
Remember when we made the LED blink?
Put the LONGER leg of the LED in ARDUINO hole 13.
Put the SHORTER leg of the LED in ARDUINO hole GND.

VERIFY and UPLOAD !

Button | Arduino 0022

Button

```
/*
  Button

  Turns on and off a light emitting diode(LED) connected to digital
  pin 13, when pressing a pushbutton attached to pin 2.


  The circuit:
  * LED attached from pin 13 to ground
  * pushbutton attached to pin 2 from +5V
  * 10K resistor attached to pin 2 from ground

  * Note: on most Arduinos there is already an LED on the board
  attached to pin 13.


  created 2005
  by DojoDave <http://www.0j0.org>
  modified 28 Oct 2010
  by Tom Igoe

  This example code is in the public domain.

  http://www.arduino.cc/en/Tutorial/Button
  */

// constants won't change. They're used here to
```
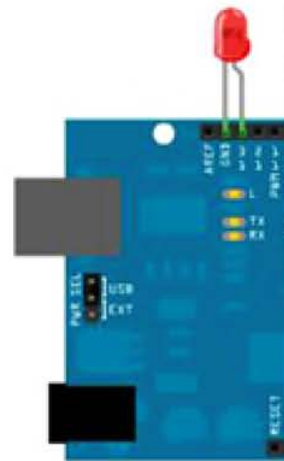
1

Once you have opened up ARDUINO on the computer, click on
RILE---> EXAMPLES ---> DIGITAL ---> BUTTON
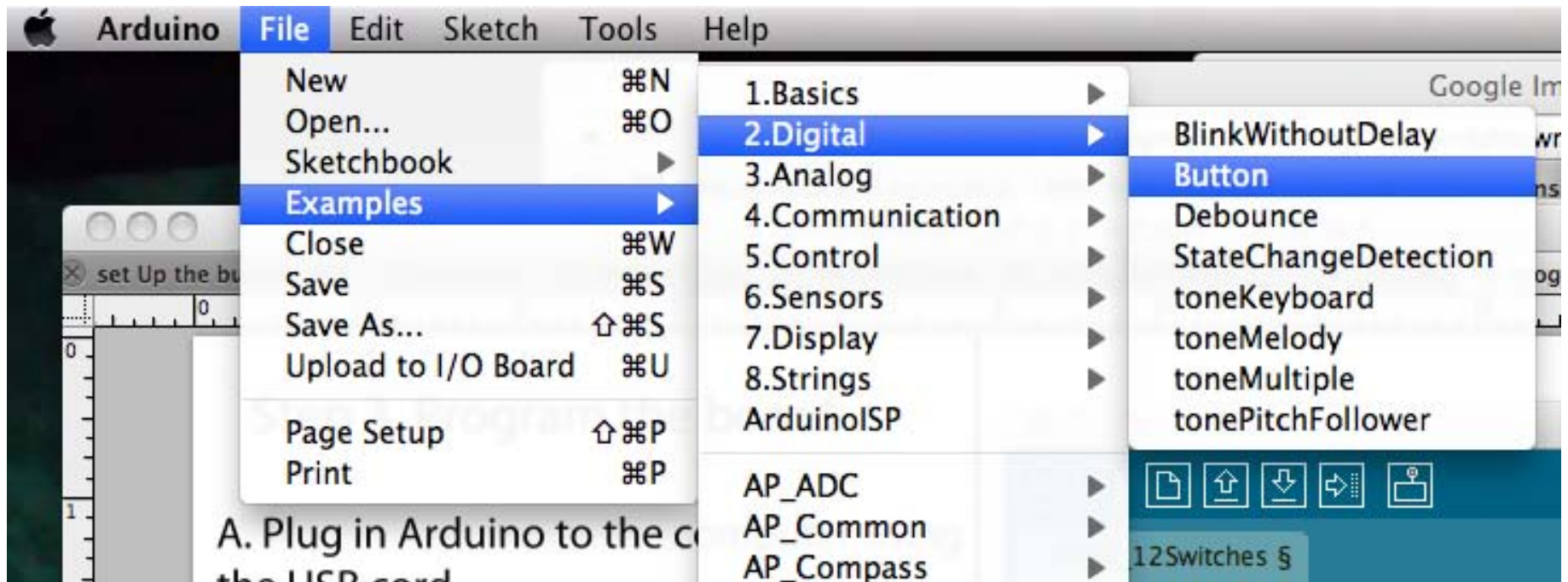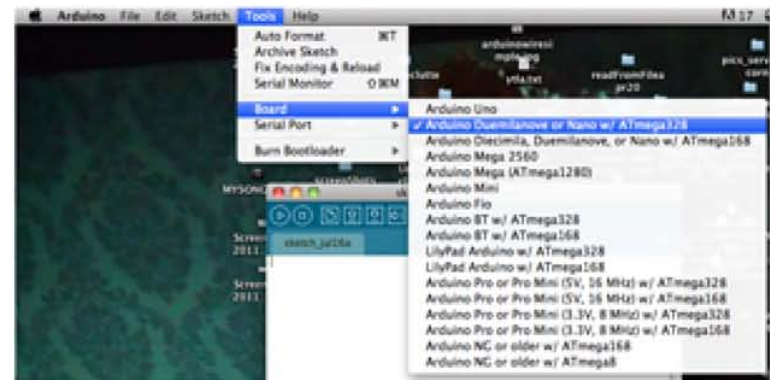
Step 3. Program the board

A. Plug in Arduino to the computer using the USB cord

USB cord goes here

B. SELECT CHIP

In Arduino, select: Tools ----> Board ----> Arduino Duemilanove

C. SELECT PORT

Select Tools ----> Serial Port ----> and click the TOP OPTION
(it should be something "dev.tty.usbmodemfd131")

Push your button!

The LED should LIGHT UP