

Alicia Gibb:
Your Instructor

Physical Computing

What is Physical Computing?

Intro to Electronics

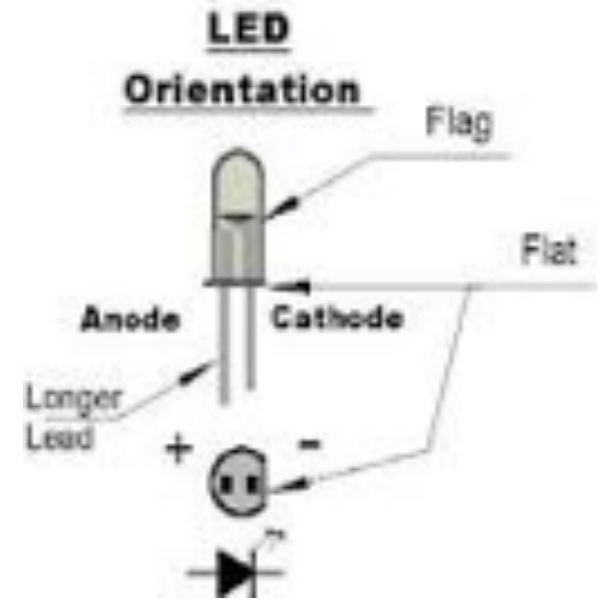
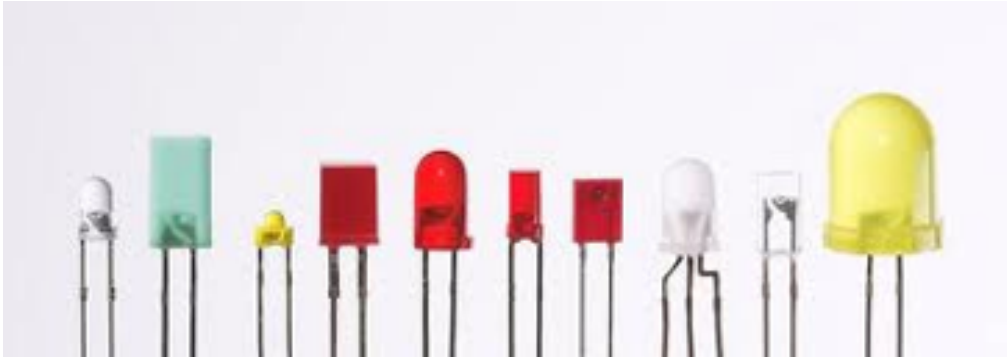
Batteries



Resistor

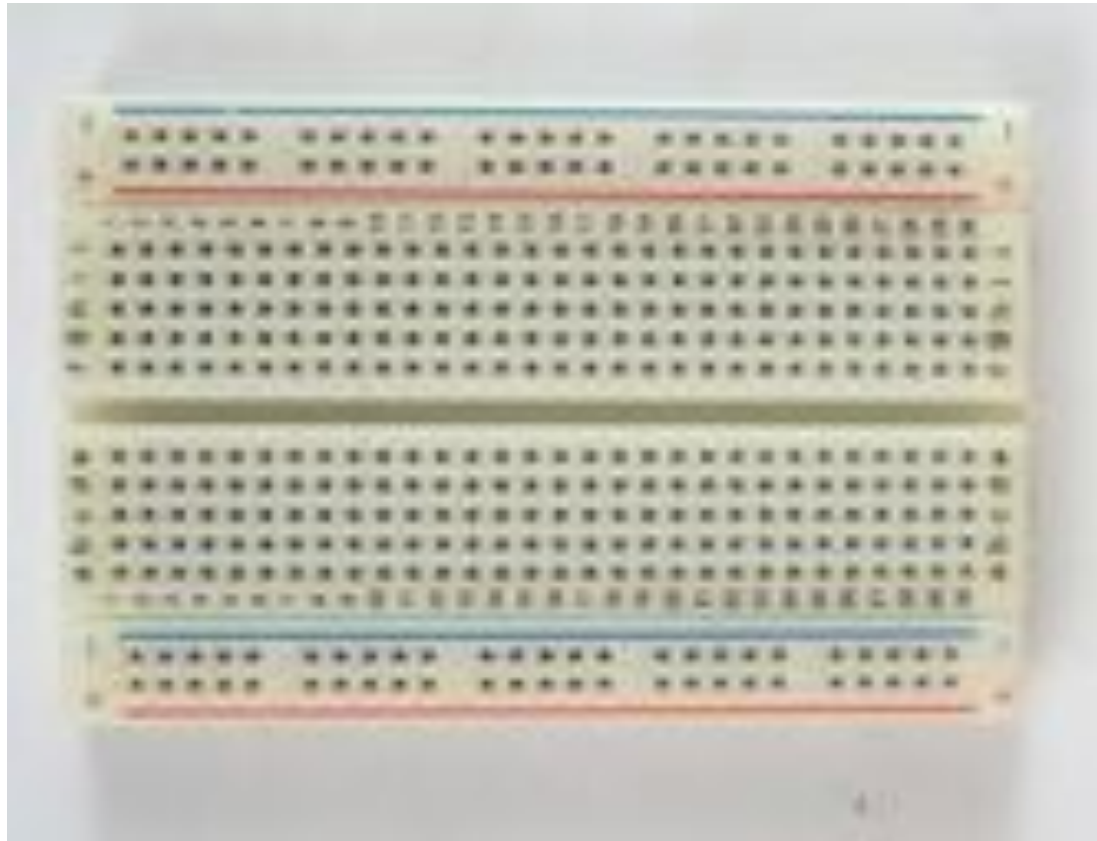


LED

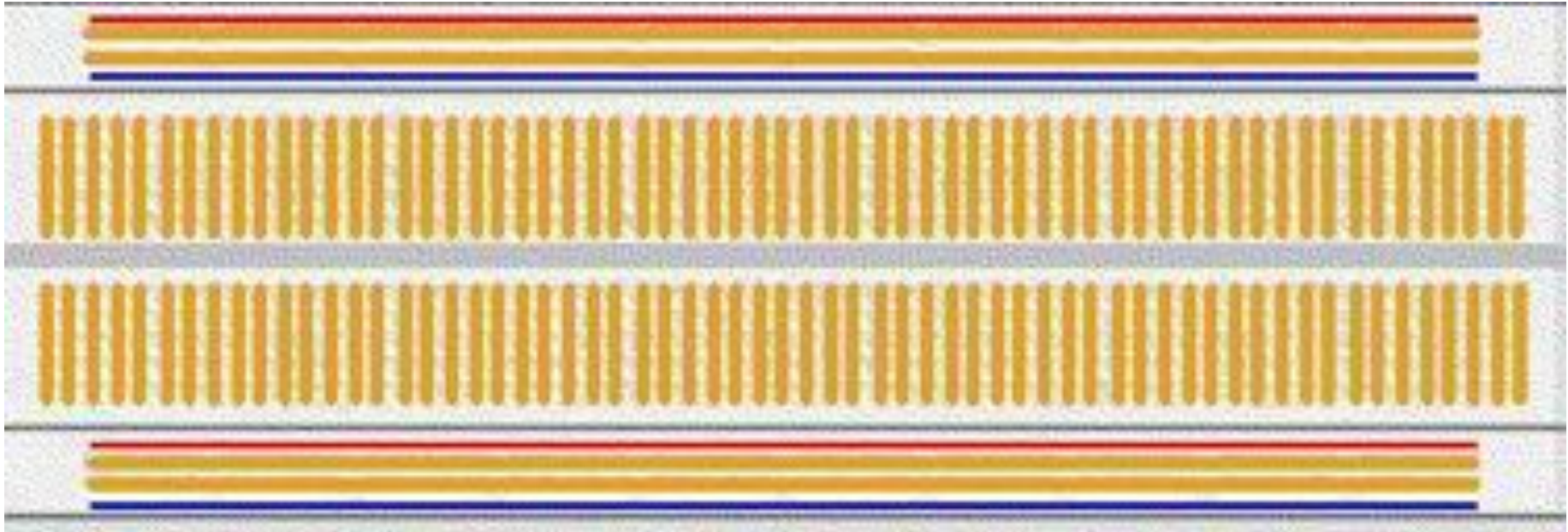


LED test

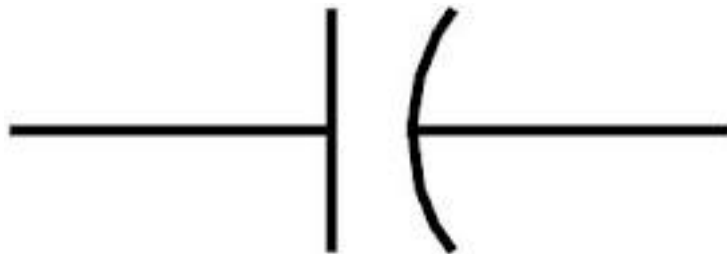
Breadboard



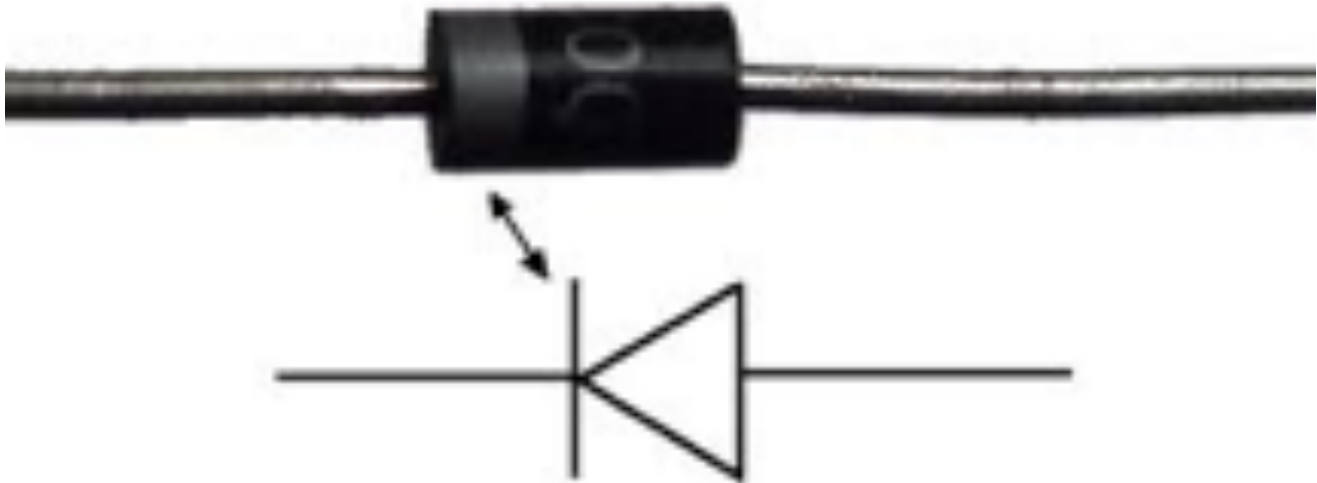
Inside a Breadboard



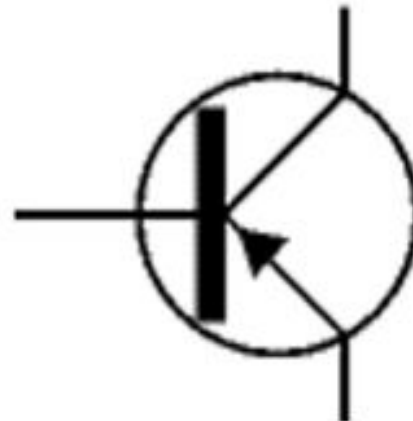
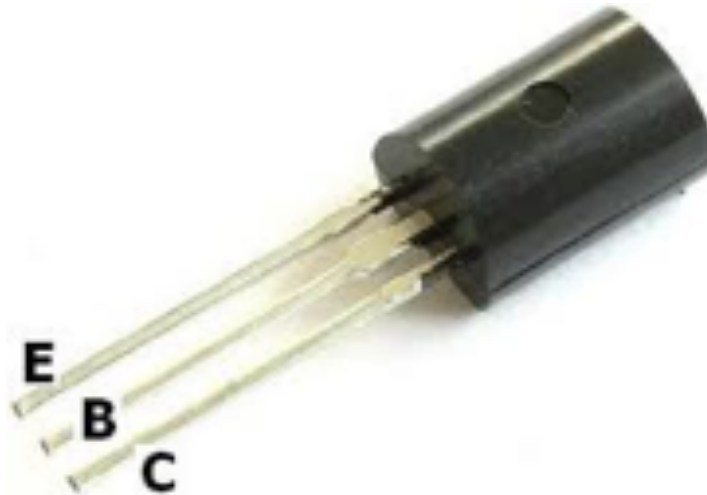
Capacitor



Diode

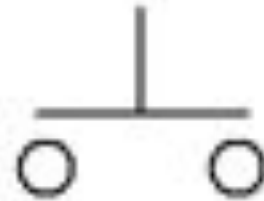


Transistor



Transistor

Button



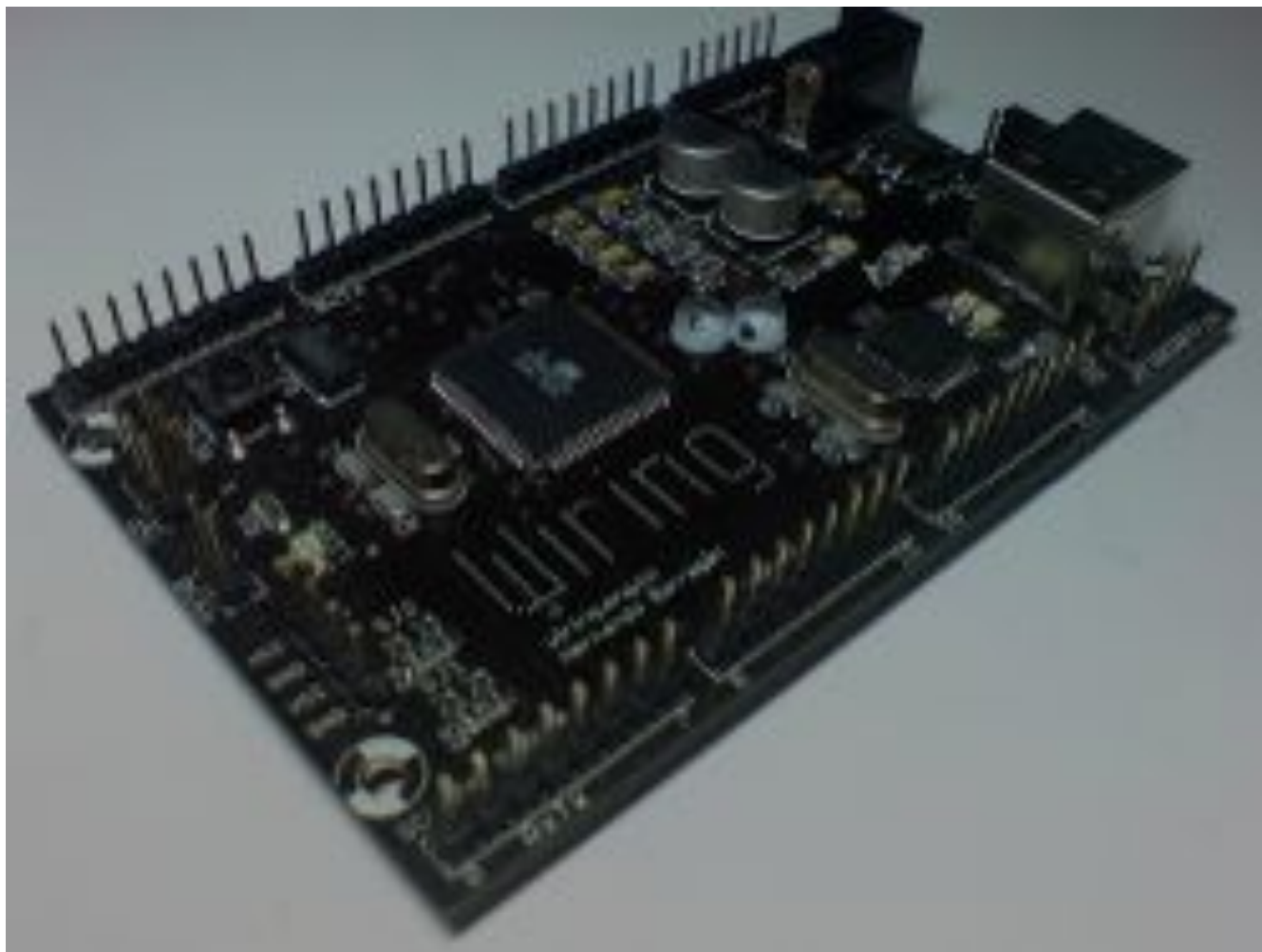
Arduino

- It's a microcontroller
- It's a breakout board for an ATMEGA chip
- It's open source
- There are many derivatives

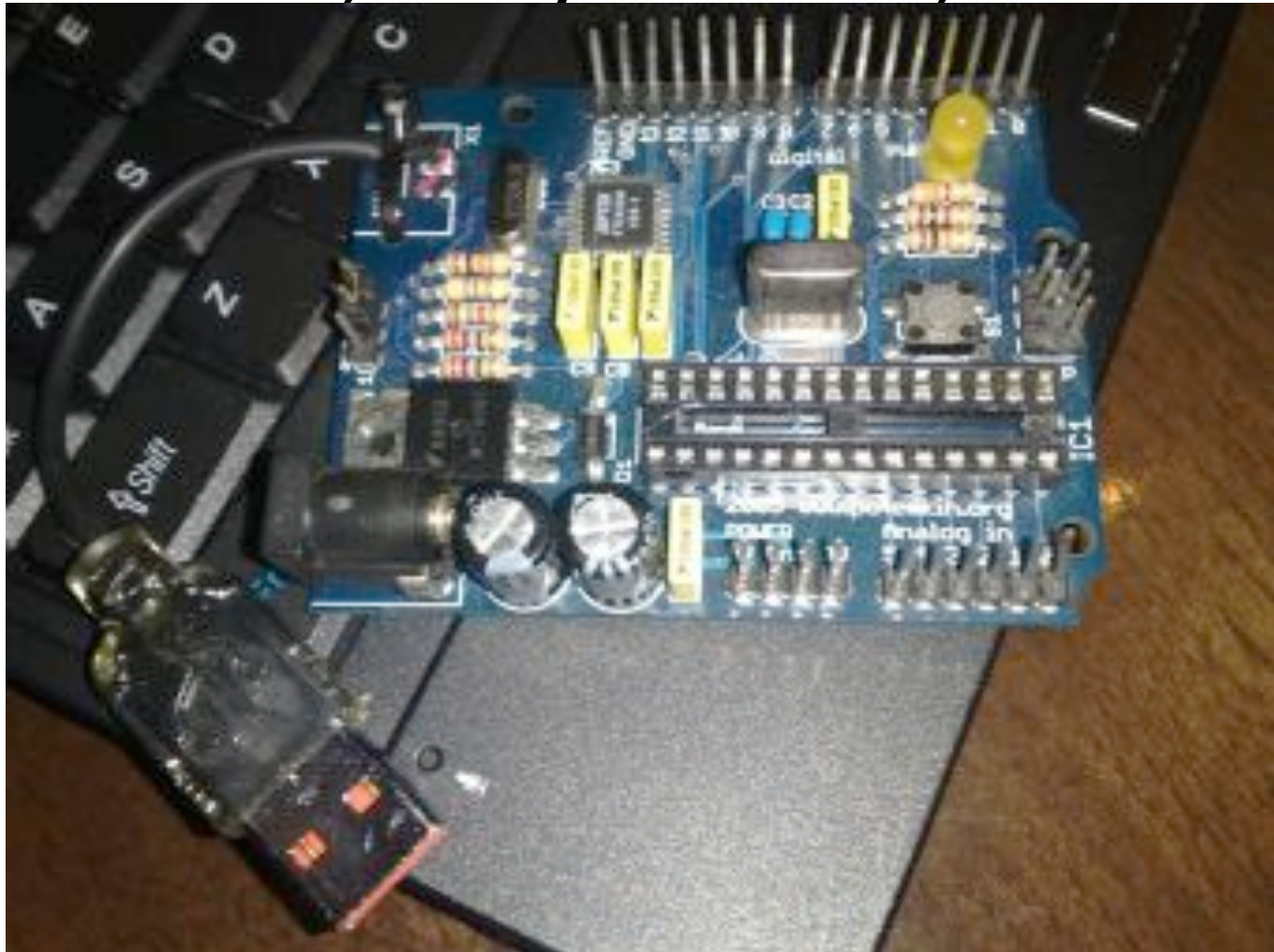
Arduino



Hernando Barragan, Wiring, early 2003



Banzi, Cuartielles, Mellis, Martino, Zambetti, Early Arduino, 2005



Leah Buechley, LilyPad, 2007



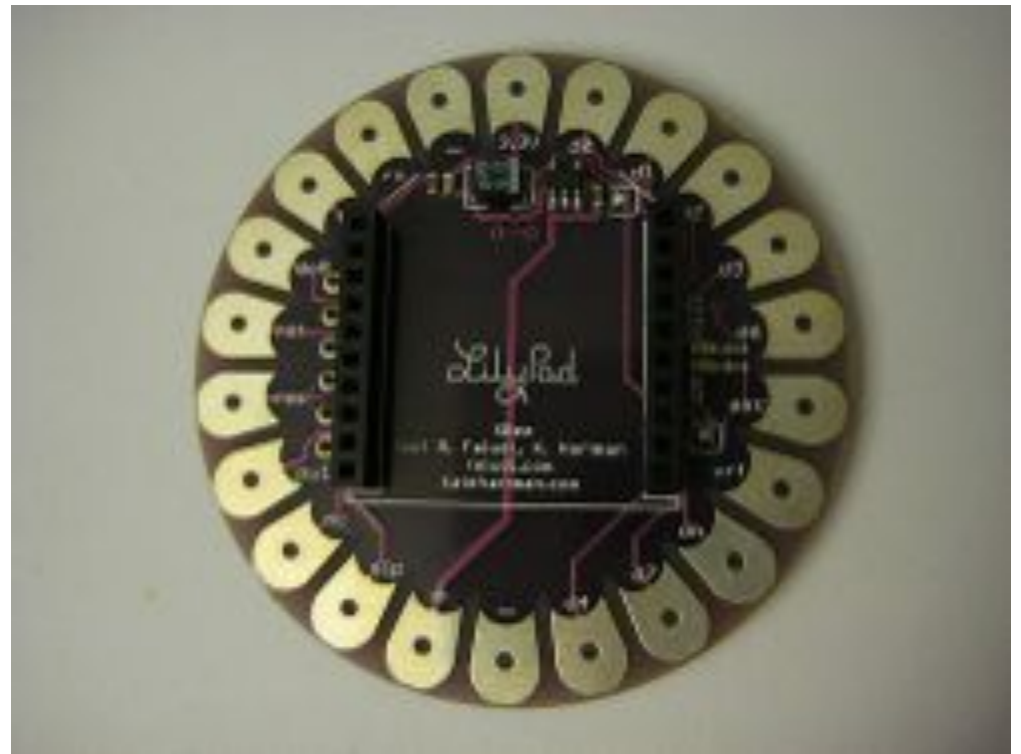
Becky Stern, A Tribute to Leah Buechley, 2008



Alexander Reeder, Touched by Strangers, 2008



Kate Hartman + Rob
Faludi , Lilypad Xbee, 2008



Arduino Pro Mini



Standalone Arduino

HC Gilje, Wind-Up Birds, 2007



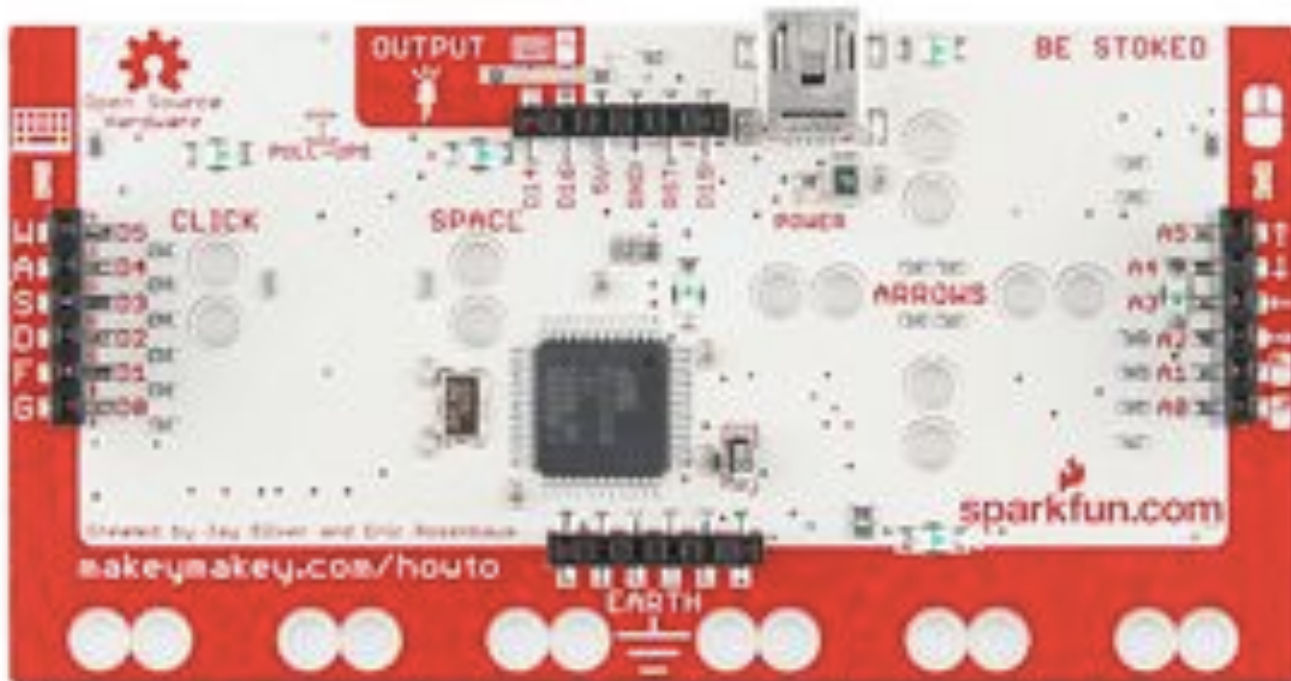
Jan Borchers, Rene Bohne, Gero Herkenrath, LumiNet Jacket, 2008



Jan Borchers, Rene Bohne, Gero Herkenrath, LumiNet Jacket, 2008



Makey Makey



A word of caution



Let's go wire up an LED