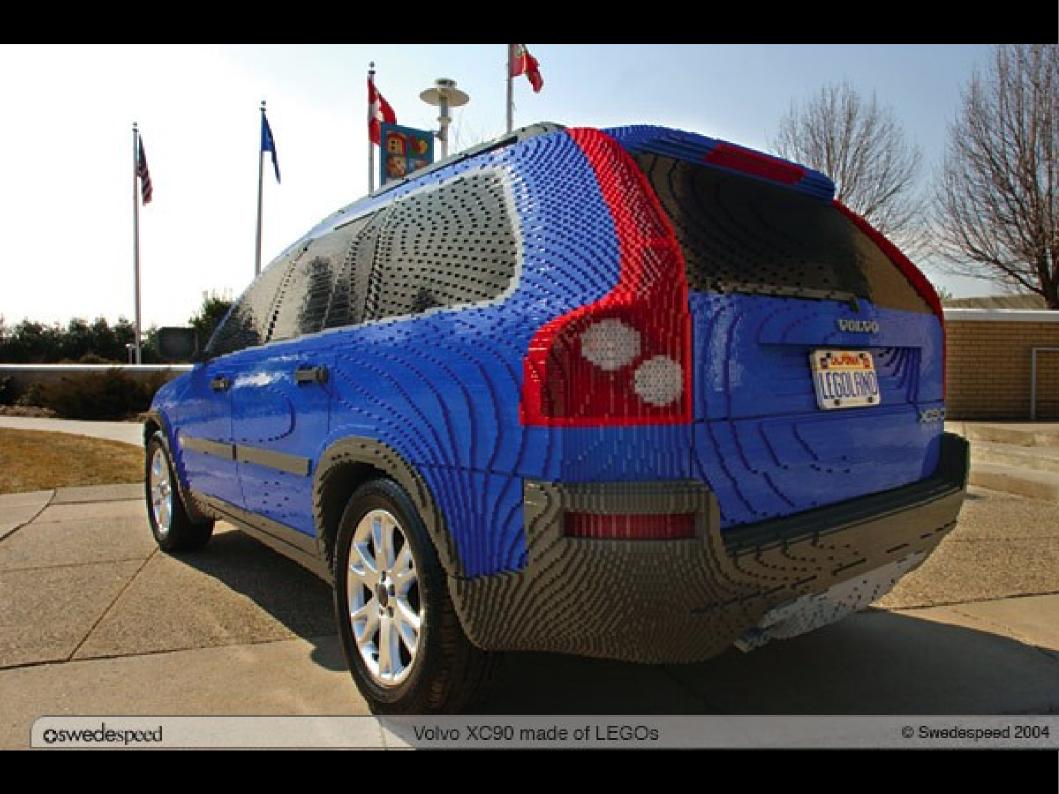
Real World / Second Life



free your mind





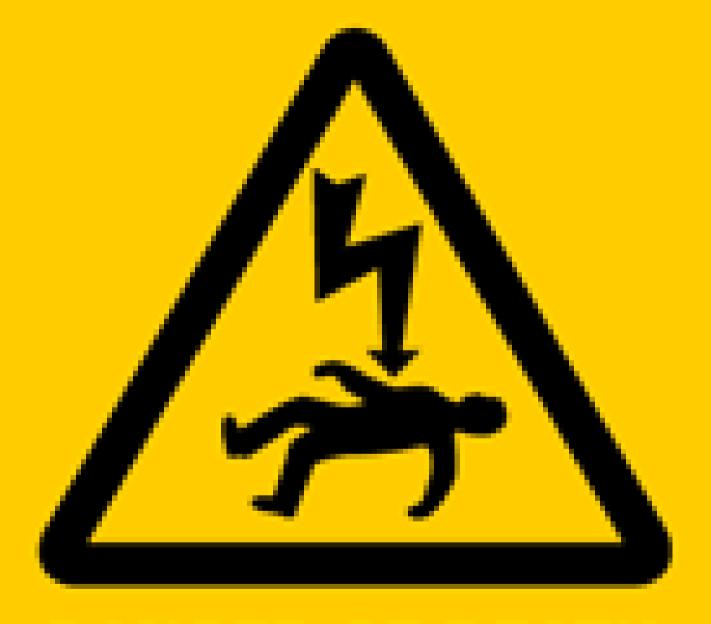








re-imagine reality



DANGER OF DEATH

Warning: this can kill you!

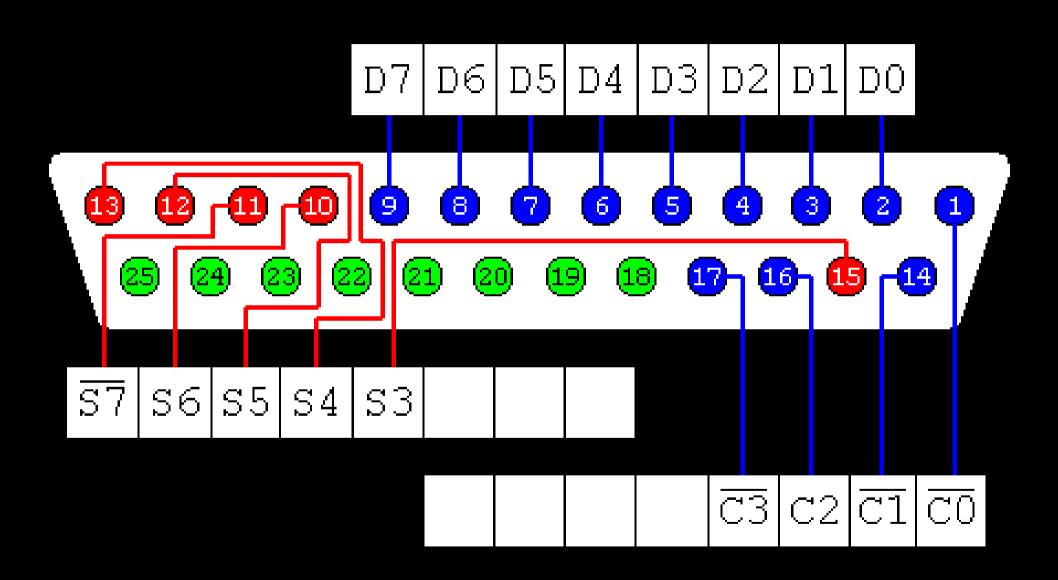
l accept no responsibility for what you do with the wild ideas I'm about to put in your head ;-)

Choices, choices! Parallel, RS232, PS2, PCI, USB, IR, Bluetooth, ...

the parallel port is good because it's "dumb"

no flow control no comms protocol

just flip bits

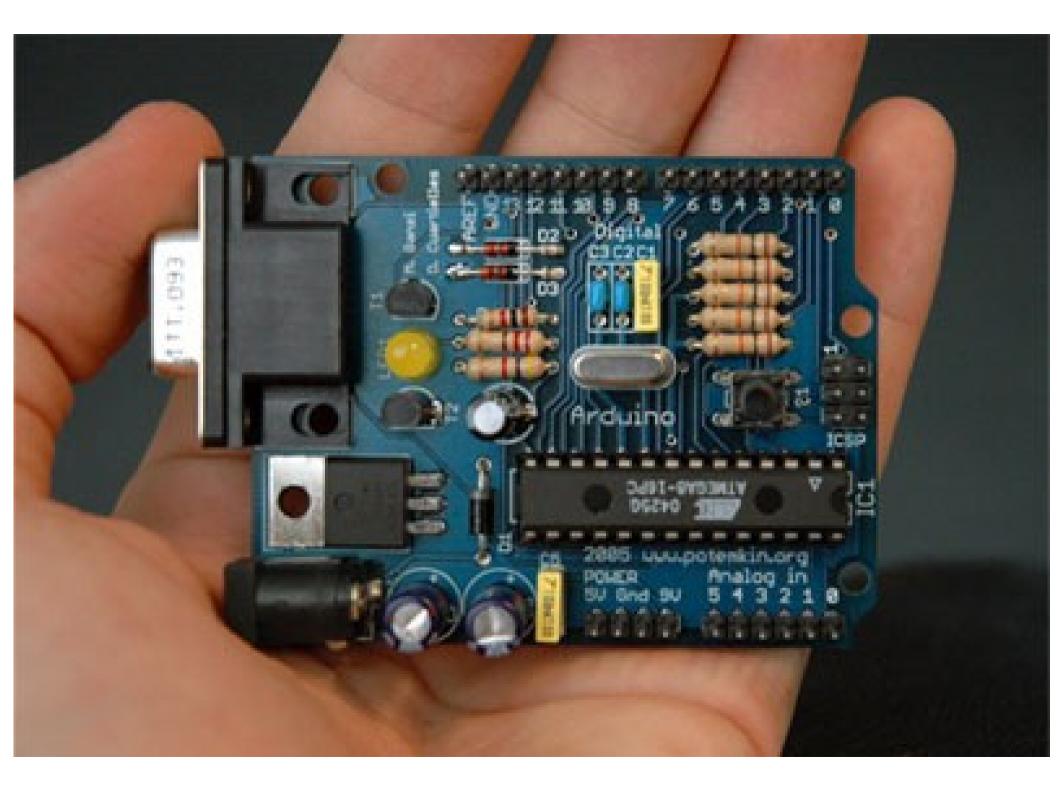


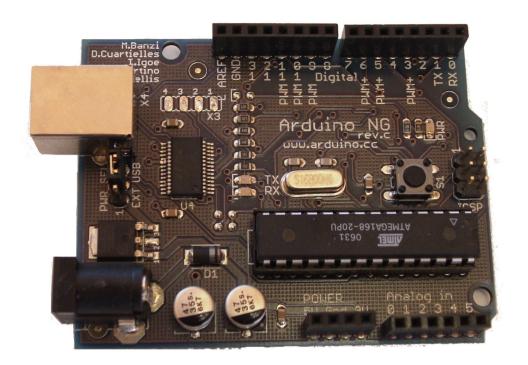
the parallel port is bad because it's "dumb"

scripting language support very DOOT

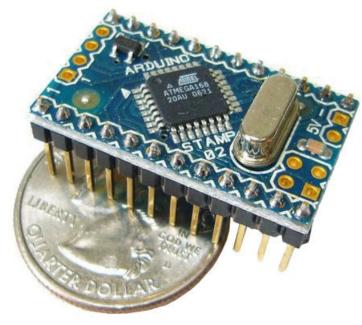
use a trivial C helper

Introduction to Arduino









Arduino IDE Installation

Extract archive for your OS

```
On Debian and derived distros:

# aptitude remove brltty

# aptitude install libftdi0 \
sun-java5-jre gcc-avr avr-libc

# update-alternatives --config java
(select java-1.5.0-sun)
```

Introduction to Linden Scripting Language

State machine

states and triggers (or "events")

LSL Building Blocks

HTTP out of Second Life

XML-RPC into Second Life

Email out of Second Life

Email into Second Life

Modified SL client

Custom SL client using libsecondlife

Private SL sim

Introduction to Electronics

Voltage, Current, and Resistance

Voltage (Volts, V) is like pressure

Current (Amps, A) is like flow rate

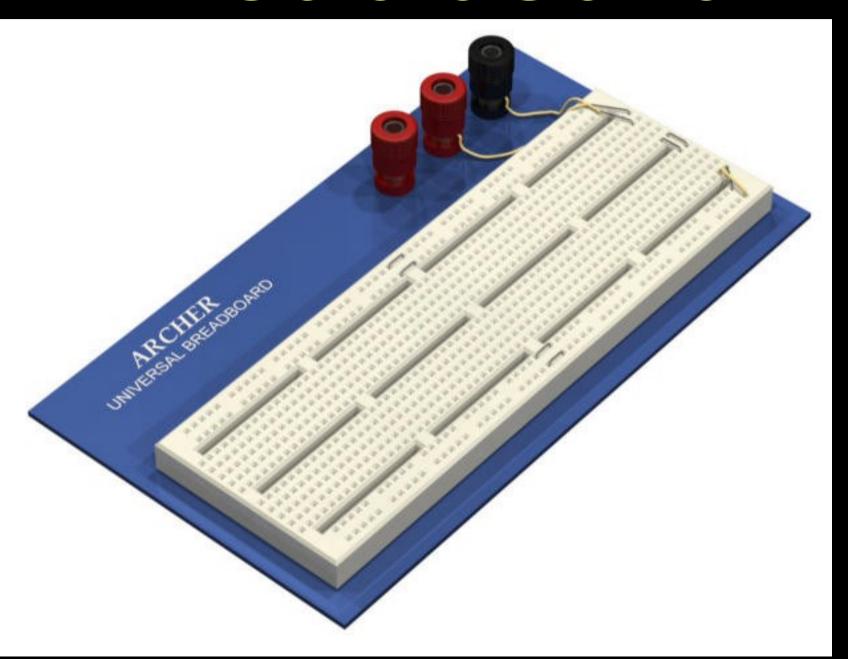
Resistance (Ohms, R) is like... well, resistance

Ohm's Law: V = I x R

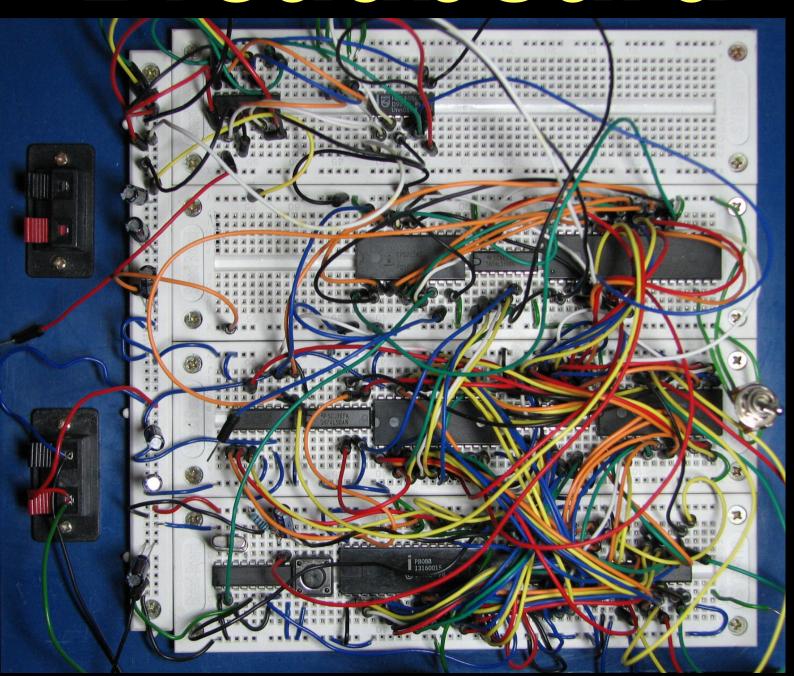
Ohm's Law: V = I x R I = V / R

Ohm's Law: V = I x R R=V/

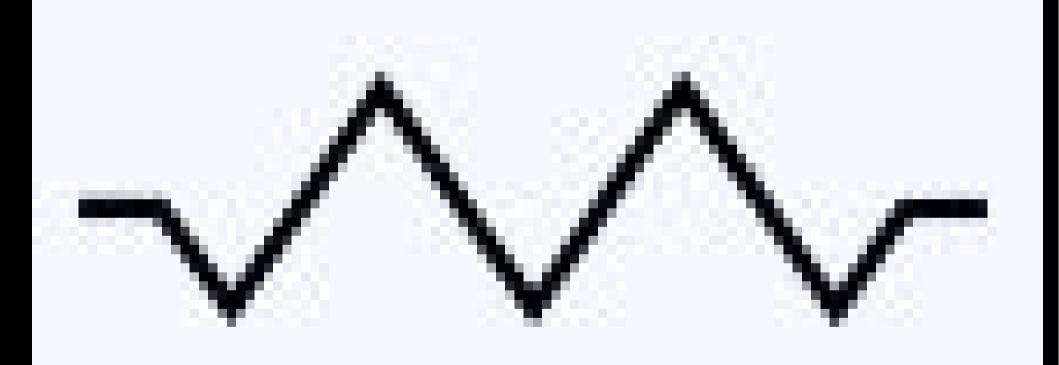
Breadboard



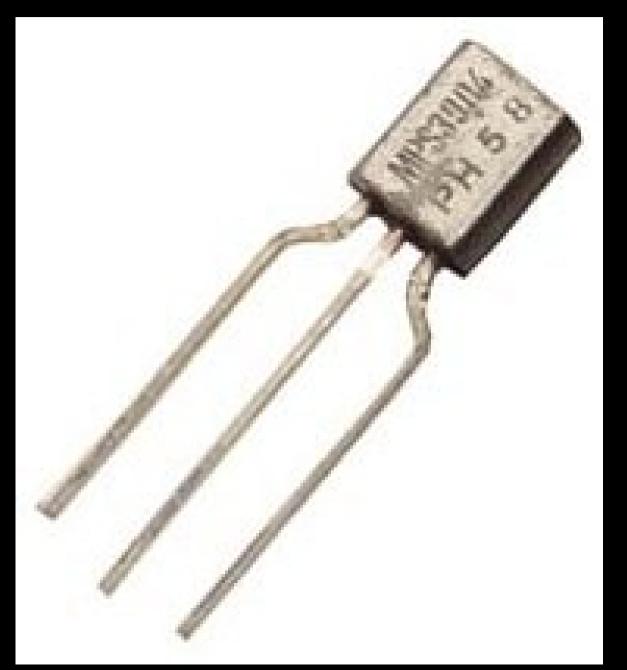
Breadboard



Resistor



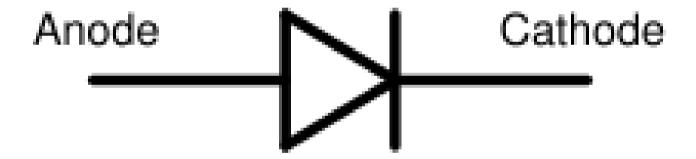
Transistor



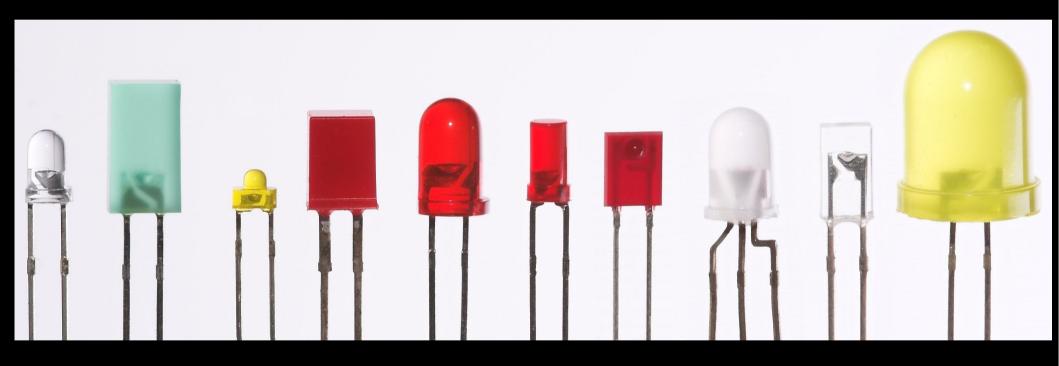
Multimeter



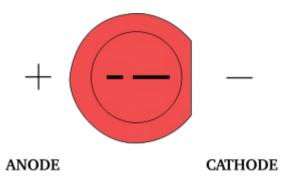
Diode

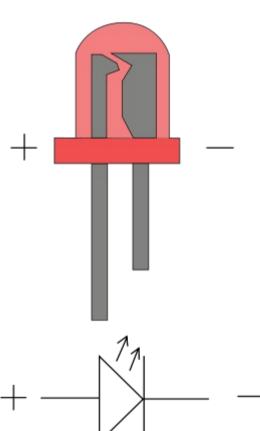


LED



LED





Capacitor

Capacitor symbols

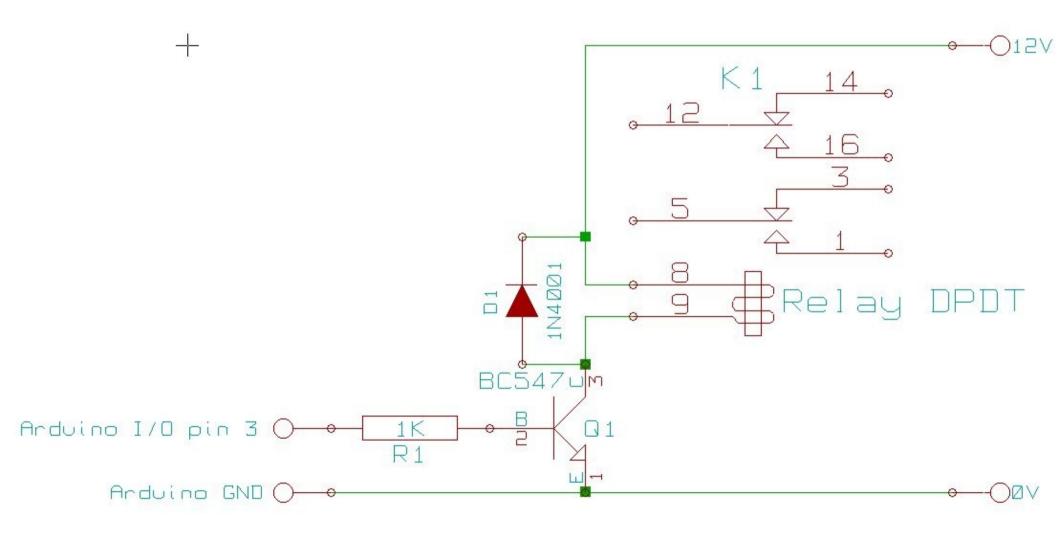
Capacitor Polarized Variable capacitors capacitor

Switch



Hardware Building Blocks

Transistor / Relay



free your mind

hardware is malleable

use scripts as glue

More information



Thanks for listening:-

Ohm sweet ohm



Not just a pretty face



Who goes there?



Let there be light



Magnet power!



What am I?



Curtains for lazy people



Curtains for lazy people



Price check on aisle 3!



Watering for lazy people



PHP phone home

