

Demo over view:

Arduino Software and Arduino hardware

Uploading different code onto the Simon
Disco Mode Code found:
www.sparkfun.com/tutorials/203

Adding a photocell and using Disco Mode

Downloading the Arduino Environment:

First go the Arduino website:

http://www.arduino.cc/

Then click on Download and follow the instructions



search

Download the Arduino Software

The open-source Ardumo environment makes it easy to write code and upload it to the i/o board. It runs on Windows, Mac CS X, and Linux. The environment is written in Java and based on Processing, avr-gcc, and other open source software.

Hardware:

You will need the following:
A USB cable, an FTDI Breakout Board,
and six pins of Break Away Headers







Break Away Headers:

Headers come in strips of forty

We just need six for the FTDI Breakout Board so clip off six of the forty by cutting through the seventh pin



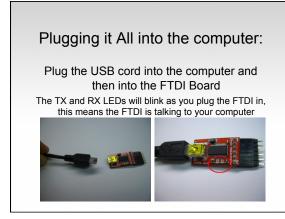
FTDI and Headers:

Attach the FTDI Basic Breakout Board and Headers

Make sure you plug the long side of the headers into the FTDI Breakout Board:

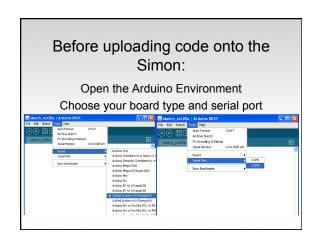








Plugging it All into the Simon: Orient the FTDI properly, GRN goes to GRN and BLK goes to BLK Also make sure to hold the FTDI at a 45 degree angle so the Headers make contact with all the ports







Here's the Schematic: This schematic shows the three connections we will have to make 5V, GND and A0



