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* [Audio VU Meter using Arduino](http://duino4projects.com/audio-vu-meter-using-arduino/)
* [Arduino + Temperature + Humidity](http://duino4projects.com/arduino-temperature-humidity/)
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4. [Arduino 7 Segment Display Interface](https://www.electronicshub.org/arduino-7-segment-display-interface/)
5. [Arduino 8×8 LED Matrix](https://www.electronicshub.org/arduino-led-matrix/)
6. [Arduino DC Motor Control using L298N](https://www.electronicshub.org/arduino-dc-motor-control-using-l298n/)

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1. [Arduino Home Automation Using RF](https://www.electronicshub.org/arduino-rf-home-automation/)
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Different project with arduino

Circuit

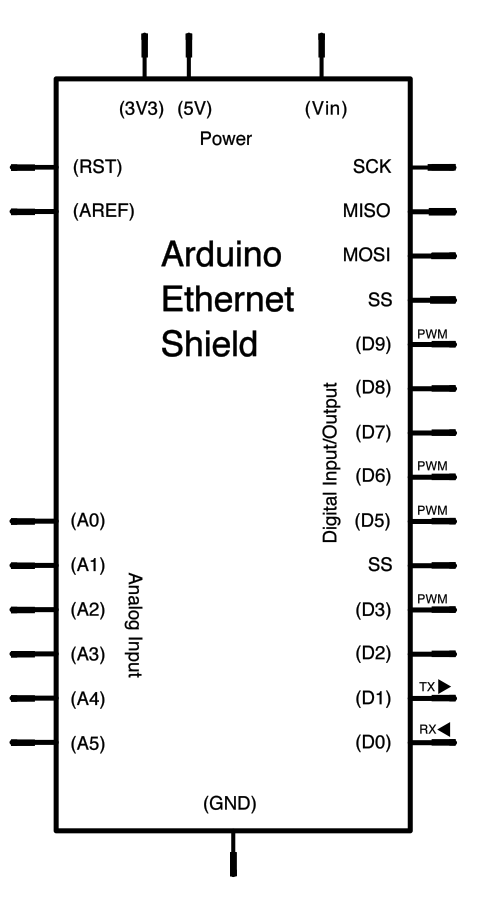
The Ethernet shield allows you to connect a WizNet Ethernet controller to the Arduino via the SPI bus. It uses pins 10, 11, 12, and 13 for the SPI connection to the WizNet. Later models of the Ethernet shield also have an SD Card on board. Digital pin 4 is used to control the slave select pin on the SD card.

The shield should be connected to a network with an ethernet cable. You will need to change the network settings in the program to correspond to your network.

image developed using [Fritzing](http://fritzing.org/). For more circuit examples, see the [Fritzing project page](http://fritzing.org/projects/)

***In the above image, the Arduino would be stacked below the Ethernet shield.***

Schematic

[](https://duino4projects.com/wp-content/uploads/2013/06/Chat-Server-using-Arduino-schematic.png)

**Code:**

**Please note**: according to your hardware setup, you need to comment / uncomment the libraries at the beginning of the sketch. Use *Ethernet.h* with the Arduino Ethernet Shield or *Ethernet2.h* with the Arduino Ethernet Shield 2 and Leonardo Ethernet.

/\*  
Chat Server

A simple server that distributes any incoming messages to all  
connected clients.  To use, telnet to your device’s IP address and type.  
You can see the client’s input in the serial monitor as well.  
Using an Arduino Wiznet Ethernet shield.

Circuit:  
\* Ethernet shield attached to pins 10, 11, 12, 13

#include <SPI.h>  
#include <Ethernet.h>

// Enter a MAC address and IP address for your controller below.  
// The IP address will be dependent on your local network.  
// gateway and subnet are optional:  
byte mac[] = {  
0xDE, 0xAD, 0xBE, 0xEF, 0xFE, 0xED };  
IPAddress ip(192, 168, 1, 177);  
IPAddress myDns(192, 168, 1, 1);  
IPAddress gateway(192, 168, 1, 1);  
IPAddress subnet(255, 255, , );

// telnet defaults to port 23  
EthernetServer server(23);  
bool alreadyConnected = false; // whether or not the client was connected previously

void setup() {  
// You can use Ethernet.init(pin) to configure the CS pin  
//Ethernet.init(10);  // Most Arduino shields  
//Ethernet.init(5);   // MKR ETH shield  
//Ethernet.init(0);   // Teensy 2.0  
//Ethernet.init(20);  // Teensy++ 2.0  
//Ethernet.init(15);  // ESP8266 with Adafruit Featherwing Ethernet  
//Ethernet.init(33);  // ESP32 with Adafruit Featherwing Ethernet

// initialize the ethernet device  
Ethernet.begin(mac, ip, myDns, gateway, subnet);

// Open serial communications and wait for port to open:  
Serial.begin(9600);  
while (!Serial) {  
; // wait for serial port to connect. Needed for native USB port only  
}

// Check for Ethernet hardware present  
if (Ethernet.hardwareStatus() == EthernetNoHardware) {  
Serial.println(“Ethernet shield was not found.  Sorry, can’t run without hardware. :(“);  
while (true) {  
delay(1); // do nothing, no point running without Ethernet hardware  
}  
}  
if (Ethernet.linkStatus() == LinkOFF) {  
Serial.println(“Ethernet cable is not connected.”);  
}

// start listening for clients  
server.begin();

Serial.print(“Chat server address:”);  
Serial.println(Ethernet.localIP());  
}

void loop() {  
// wait for a new client:  
EthernetClient client = server.available();

// when the client sends the first byte, say hello:  
if (client) {  
if (!alreadyConnected) {  
// clear out the input buffer:  
client.flush();  
Serial.println(“We have a new client”);  
client.println(“Hello, client!”);  
alreadyConnected = true;  
}

if (client.available() > ) {  
// read the bytes incoming from the client:  
char thisChar = client.read();  
// echo the bytes back to the client:  
server.write(thisChar);  
// echo the bytes to the server as well:  
Serial.write(thisChar);  
}  
}  
}