Arduino Your Home & Environment

Learn to monitor and control your home & environment with self contained, inter-communicating microprocessors. Applications include ham radio, robotics, weather stations, model railroading, toys and more. - KK4HFJ

Home About Us Tutorials Discuss Projects Sponsors Tech Support

Saturday, February 22, 2014

Arduino & uBlox Neo 6M GPS



A buddy of mine sent me a uBlox Neo 6M GPS module and said "figure it out". Cool, I love projects like this.

There are 4 connections. TX, RX, VCC and Gnd. I connected TX of the module to pin 10 on the Arduino, Rx to Pin 11, VCC to 5v, and Gnd to Gnd.

I started with a simple SoftwareSerial demo to make sure I could read the module:

#include "SoftwareSerial.h"

SoftwareSerial mySerial(10, 11); // RX, TX

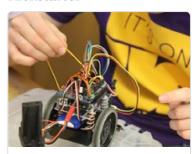
void setup()

// Open serial communications and wait for port to open: Serial.begin(9600);

Serial.println("uBlox Neo 6M");

// set the data rate for the SoftwareSerial port

Kickstarter



SainLABS - so ANYONE can learn the latest in DIY technology Salil

Connecting beginners and experts by building a Wiki, App, and a Mobile Lab to develop an Open-

Kansas City, MO

\$565 funded pledged

More of our resources:

IC Station

SainSmart

Electronics Experimenters

Arduino Discussion Group

Google +

Youtube Videos

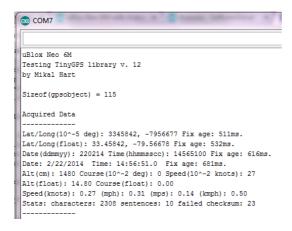
Instructables

```
mySerial.begin(9600);
void loop() // run over and over
 if (mySerial.available())
  Serial.write(mySerial.read());
}
```

Then I added Mikal Hart's TinyGPS Library and sample code. This converts all those NMEA messages into a readable format by stuffing the character sequences into variables.

After a bit of massaging, here is the final result:

http://tny.cz/d19906cc (code)



I still have more work to do, like displaying selected data on a LCD, but now that the data is in variables, that's easy. Stay tuned.

Posted by Steve Spence at 10:21 AM





Search This Blog

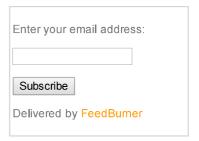
Search

Please support our work!

Our goal is to discover new solutions and provide working examples with video, pictures, code and schematics. Please support our efforts.



Subscribe via email



Subscribe to RSS Feed

Subscribe in a reader



Sait yllätyksen numero 7

Tarkasta saamasi yllätys tästä!

The Arduino Store



Alien SKP 10 months ago (edited) - Shared publicly

damn I can't make it work with my Mega 2650! Goddamit!!! Where should I connect it to the Arduino Mega?

+1 1 ⋅ Reply

View all 4 replies



Ran Shmulevitch

9 months ago

does it work? if not specify what is going on and i may be able to help. good luck



Alien SKP 9 months ago Yes it works, thanks!



Nugroho Assidqi 1 year ago - Shared publicly

Excuse me, for the code http://tny.cz/d19906cc , there is a problem with the code, and the error is : sketch_apr15a:6: error: 'TinyGPS' does not name a type sketch_apr15a:8: error: variable or field 'gpsdump' declared void Read more (16 lines)

+1 1 · Reply



Tyler Holloway

4 months ago did you ever find a fix?



Nugroho Assidqi

4 months ago

ups sory for long time did'nt answer.., I'm sorry i try to create my code alone..., and forget to save at where..., if i found it, i'll share it...



Steve Spence 1 year ago - Arduino (Discussion)

stuffing gps data into variables -

 $\label{logspot} http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html$

+2 1



Steve Spence 1 year ago - Xtreme Arduino (Discussion)

stuffing gps data into variables -

http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html

+2 1



Steve Spence 1 year ago - Arduino Land (Discussion)

stuffing gps data into variables -

http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html

+1 1



Steve Spence

1 year ago - Makers, hackers, artists & engineers (>> Arduino) stuffing gps data into variables -

Looking for Arduino books and gadgets? Here is a collection of our favorite items and resources - The Arduino Store

IC Station



Join the discussion

Join the Arduino discussion at http://tech.groups.yahoo.com/group/arduinohome/.

Link to us for a free gift

Put a link on your website to this website, and I'll send you a series of eBooks on learning the Arduino and cool projects or DIY renewable energy. Just send me an email with the URL where you have posted the link.

Recent Posts

Solar & Wind Data Logger Video

This data logger monitors a solar or wind off -grid power system. A current shunt and voltage divider monitors the voltage and current of the system....

<u>Arduino LM35 Temperature</u> Sensor

One of the least expensive and simplest ways to measure temperature is with a LM35. This is another component found in our SainSmart kit, This...

Arduino Relay Control

Previously I have blogged about using relays with an Arduino, and SainSmart relays specifically. A while back I received a 4 relay, and a 8 relay...

Adafruit RGB I2C LCD Keypad Shield

This project is a bit more complicated than some we

http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html **+2** 1 Steve Spence 1 year ago - STEM on Google+ (→ Citizen science) stuffing gps data into variables http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html +2 1 Steve Spence 1 year ago - Make: Forum (Arduino) stuffing gps data into variables http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html +3 1 **Steve Spence** 1 year ago - Ham Radio Homebrewing (Discussion) stuffing gps data into variables http://arduinotronics.blogspot.com/2014/02/arduino-ublox-neo-6m-gps.html +1 1 Steve Spence 1 year ago - Open Home Automation Community (Discussion) stuffing gps data into variables - http://arduinotronics.blogspot.com/2014/02/arduino-ubloxneo-6m-gps.html 1 Oscar Carreira 2 months ago - Shared publicly Hi Steve! lot of thanks for your help! At last i can see my Ublox GPS working! Regards from Galiza, in the northwest of the iberian peninsula! 1 · Reply Jayvin Babajee 3 months ago - Shared publicly I have used your code exactly as it is, and yet it doesn't seem to work. It only prints Read more 1 · Reply tan weiting 3 months ago hi, do you have any fix for it? i facing the same problem. Jayvin Babajee 3 months ago I've got mine working with the tinyGPS++ library, it has some nice examples which you could try. works like a charm.

nave done recently. Adatruit

makes a very nice LCD Keypad Shield, that unlike most of the...

Adafruit RTC / SD Data <u>Logger</u>

Many of our projects require logging the sensor data to a sd card, and some of those projects require a time / date stamp. We used to use discrete...

Will the Real Arduino, Please Stand Up?

For years we have been receiving these wonderful blue Arduino boards with Arduino.cc printed on the back. Imagine my surprise, when this time,...

Proto Screw Shields -Continued

Last week I built a Proto Screw Shield from Sparkfun. Although it's a very nice piece, and easily assembled, I received one from Adafruit today...

Arduino IDE Improvements

Big things are happening! Sceptical? Download the latest Arduino IDE, and go to Sketch - Include Library -Manage Libraries The new IDE is much...

Wind & Solar Datalogger

We are rolling out our newest Wind & Solar Power Datalogger. A shunt between the battery and the power sources (wind turbines, solar panels,...

Sparkfun Proto Screw Shield

Today I got a package from Sparkfun that included a Raspberry Pi 2, a couple of MOSFETS, some right angled breakaway headers, and a Proto Screw...

Powered By: Blogger Plugins

Popular Posts



Gas Sensor Tutorial We just received a bunch of MQ Series Gas Sensors. These inexpensive sensors

include: MQ2 - Flammable Gas & Smoke MQ3 - Alcohol MQ4...

Arduino IR Receiver - Part 2

I have been successful in programming my

Arduino to identify sets of digits transmitted from my Samsung



But when I try to compile in in IDE 1.5.8 for my DUE, I get that error- 'class SoftwareSerial' has no member named 'available'. I do have sofwateserial.h, newsoftserial.h and altsoftserial.h Read more

1 · Reply



Mike Mackley

1 year ago - Makers, hackers, artists & engineers (→ Arduino)



Steve Spence originally shared this Arduino & uBlox Neo 6M GPS

A buddy of mine sent me a uBlox Neo 6M GPS module and said "figure it out". Cool, I love projects like this. There are 4 connections, TX, RX, VCC and Gnd. I connected TX of the module to pin 10 on the Arduino, Rx to Pin 11, VCC to 5v, and Gnd to Gnd. I star...

+4 1



Randolph Garrison

1 year ago +1 well done!



Marijn Bent 6 months ago - Shared publicly

Link is broken at the moment, can you provide us with a new url?

1 · Reply



Alana Wudianarma 7 months ago - Shared publicly

what is the difference using skm 53?

What is more accurate to use the data using skm or u bloc?

1 · Reply



Noah Johnson 10 months ago - Shared publicly

I have the same model gps module, and I am FINALLY getting something out of it thanks to your code, but its still scrambled for me. Does this look like a baud rate problem? I would greatly appreciate any input.

Read more (28 lines)

1



Jaganathan Gnanavelu 11 months ago - Shared publicly

I am using above code in Arduino MEGA 2650 with NEO-6M GPS Module.

I connected GPS pin to Arduino : VCC \rightarrow 5V, RX \rightarrow TX2(pin 16) TX>RX2(pin 17) and GND ->GND.

Read more

+1 1 ⋅ Reply



edualvaya 10 months ago

i have the same problem , what happends?



Ozi Uzoma 11 months ago - Shared publicly

i'm using the same gps module im receiving the nmea sentences but when i uploaded your code,nothing shows on the serial port

remote. I used the excellent library...



Monitoring voltage of a dc battery supply

Since we are involved in off grid solar power systems,

we have a need to monitor battery voltage. The Arduino can do this easily with a simp...



Two DS18B20 Temp Sensors on LCD Display!

We are finally posting our multi

DS18B20 Temp Sensor LCD project. Right now we are monitoring two sensors on one data pin, but could add man...



Working with the SainSmart 5v Relay Board

Today we are working with our

SainSmart 5v Relay Board . This is a simple and inexpensive 4 port SPDT relay board (there are boards with mo...



DS1307 Real Time Clock Working

With a bunch of help from John Boxall of Tronixstuff.com, we

finally got the Time / Date functions working on our Arduino, with the DS1307 ...



Arduino & uBlox Neo 6M GPS

A buddy of mine sent me a uBlox Neo 6M GPS module and

said "figure it out". Cool, I love projects like this. There are 4 conn...



Our Temperature / Humidity Monitor is working!

We received our SHT21 Temperature

/ Humidity Sensor today from Misenso. No documentation came with it, so a bit of googling found parts of t...



The Arduino Thermostat

I've talked about this before, but since I just built another one

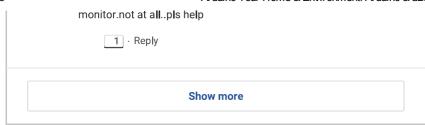
last week, I thought I'd reshare this project, as it has a sligh...



AC Voltmeter and Temperature Monitor

I was asked to build a test jig for testing Honeywell

Aquastats, and the two parameters that needed





Newer Post Home Older Post

Subscribe to: Post Comments (Atom)

monitoring were voltage (12-16 vac), and...

Arduino Blog

Call for Makers is open! Join Maker Faire Rome 2015 - 4/21/2015 - Zoe Romano

Want to help Arduino.CC? Take a pic of your Arduino packages! - 4/20/2015 - Zoe Romano

Arduino web architecture, back to the

future - 4/16/2015 - mastrolinux

Let's make robots exploring lake depths - 4/14/2015 - Zoe Romano Casa Jasmina with Opendesk @

Milan Design Week - 4/13/2015 - Iorenzoromag noli

Blog Archive

- **2015** (27)
- **2014** (77)
 - **12/28 01/04 (3)**
 - **12/14 12/21 (2)**
 - **12/07 12/14 (1)**
 - **▶** 11/16 11/23 (2)
 - **11/09 11/16** (2)
 - **▶** 10/26 11/02 (4)
 - **10/19 10/26 (1)**
 - **▶** 10/05 10/12 (1)
 - **>** 09/28 10/05 (2)
 - **▶** 09/21 09/28 (1)
 - **>** 09/14 09/21 (2)
 - **▶** 08/31 09/07 (1)
 - **N** 08/17 08/24 (2)
 - **▶** 08/10 08/17 (1)
 - **▶** 08/03 08/10 (1)
 - 07/20 07/27 (2)07/06 07/13 (1)
 - **▶** 06/29 07/06 (1)
 - **▶** 06/22 06/29 (1)
 - **▶** 06/15 06/22 (2)
 - **▶** 06/01 06/08 (1)
 - **5** 05/25 06/01 (1)
 - **>** 05/18 05/25 (1)
 - **>** 05/04 05/11 (3)
 - **1** 04/27 05/04 (1)
 - **1** 04/13 04/20 (2)
 - **▶** 04/06 04/13 (1)
 - **>** 03/30 04/06 (2)

- **>** 03/23 03/30 (3)
- **>** 03/09 03/16 (2)
- **>** 03/02 03/09 (6)
- **▶** 02/23 03/02 (1)
- **▼** 02/16 02/23 (4)
 - ELEC Freaks LCD Key Shield
 - Arduino & uBlox Neo 6M GPS
 - ICStation 5v BMP-085 Pressure / Temperature Sensor...
 - ICStation 8 Character, 7 Segment Display
- **D** 02/09 02/16 (1)
- **D** 02/02 02/09 (4)
- **▶** 01/26 02/02 (6)
- **▶** 01/19 01/26 (1)
- **1** 01/12 01/19 (3)
- **▶** 01/05 01/12 (1)
- **2013** (55)
- **▶ 2012** (57)
- **2011** (36)
- **2010** (115)

Our Favorite Sites

 Ant	pasto Hardware Blog
	uino Controlled Home
Ard	uino Home
Ard	uino Shield List
Ard	uino for Beginners
Ard	uino.org
DIY	Drones
Dig	key
Ear	thshine Electronics
Ele	ctronic Goldmine
Ele	ctronic Navigator
Fre	eduino
Gai	age Lab
Gei	neral Electronics Tech
Gre	en-Trust Renewable Energy
Had	k n Mod
Had	kerspace - Wikipedia
Had	kerspaces.Org
Had	ktronics
Jan	neco Electronics
Laı	navaja del Geek
Lad	y Ada Arduino tutorial

Learn Electronics
Little Bird Electronics

Macetech Makers Shed Mean PC MindKits **Mouser Electronics** Nerd Kits Newark - Electronics Distributer Nudatech Nuts & Volts Pachube / Arduino projects **Phenom Engineering** Practical Arduino **RoHS Compliance** Robot Shop Rogue Robotics Seeed Studio Smiley Micros Solarbotics Spark Fun SpikenzieLabs Web Design Tips tronixstuff

Green-Trust.Org

Wind & Solar Power, Weather Datalogger - 3/30/2015

Convert Your Generator to Tri-Fuel - 3/3/2015

"Tap" a Bee Hive for Fresh Honey - 2/16/2015

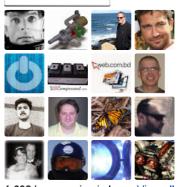
Smart Charging your phone, tablet, and other 5v USB devices. - 10/7/2014

Spirulina, A Superfood (Grow your own) - 9/15/2014

Google+ Followers

Steve Spence

Add to circles



1,692 have me in circles

View al

, tradition for the first a series of the se
Learn how to build robots, remote-controlled cars, and more with the Arduino Starter Kit & Course Bundle
Now, futuristic clothing with vivid lights that flash on music beats
DEAL OF THE DAY: save 31% on these premium noise-canceling headphones
Get an insane full body workout at home using a kettle bell
Here are the best backup solutions to keep all your data safe
Arduino Q&A
How to find the digital and analog pins on a standard Arduino board
How to create an Arduino alarm that calls a function
How Arduino's Servo library controls positioning
How to make sure your new Arduino board is working

Helpful products

The Most Common XBee Mistakes

Picture Window template. Powered by Blogger.