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PICAXE 20X2 Clock,
Date, Temperature and
Compass Heading

~~PICAXE Homemade
Laptop Using I2C With
Digispark; Huge
Functionality, Tiny Price
Connect PICAXE 08M2
to PCF8574P GPIO
Expander Tutorial:
Programming Using
PICAXE 18M2~~

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~~Microcontroller I2C Part
1 - Using 2 Arduinos
Picaxe talking number
guessing game How to
program the Picaxe 08,
08m, or 08m2~~

Blockly for PICAXE
Tutorial 01 - Getting
Started

I2C Part 2 - Build a I2C
Sensor

22 bit ADC read by
Picaxe PICAXE \u0026
UNL2003 Stepper Motor

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PIC uC Tutorial #1:
Basics - Introduction to
PIC microcontrollers
and capabilities Arduino
Uno to ATmega328 -
Shrinking your Arduino
Projects Arduino
Tutorial For Beginners 4
- Connect two Arduinos
by using I2C Control
Relay Modul with
Digispark USB Attiny85
board | Robojax Using
Rotary Encoders with

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Arduino I2C Tutorial 1

~~How I2C~~

~~Communication Works~~

~~and How To Use It with~~

~~Arduino #23 LCD BIG~~

~~DIGITS for your~~

~~Arduino using I2C -~~

~~Easy! I2C LCD with~~

~~Arduino | convert a SPI~~

~~LCD to I2C with~~

~~PCF8574 Use the I2C~~

~~Bus to control a~~

~~Character LCD with~~

~~Arduino - Tutorial~~

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Simple IR Decoder using PICAXE 08M2 setting up a secret code PIC vs Arduino PICAXE with the PULSIN command

#149 Weekly Roundup

#38 - New Maker Products Killing Curiosity Wireless

~~IGEPv2 robot on its virgin ride~~ Servo Motors

Lesson 20 International Maker Meetup: Raspberry Pi

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Using I2c With Picaxe

The `readi2c` command is used to read data back from the slave into variables in the PICAXE.

The syntax is `readi2c start_address,(variable, variable,...)` where `start_address` is the start address (byte or word as appropriate) `variable` is where the returned data is stored in the master (b0, b1, b2 etc) Example.

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USING I2C WITH PICAXE

This program configures the PICAXE as an I2C slave device, waits for data to be sent to it via I2C and presents the last data received to the output pins. Code

```
Example: init: hi2csetup  
i2cslave, %10100000  
main: if hi2cflag = 0 then
```

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```
main ; poll flag, else loop  
hi2cflag = 0 ; reset flag get  
hi2clast,b1 ; get last byte  
written let outpins = b1 ;  
set output pins goto main
```

hi2csetup - BASIC

Commands - PICAXE

The i2cslave command
(slavei2c also accepted by
the compiler) is used to
configure the PICAXE
pins for i2c use (in

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MASTER mode) and to define the type of i2c device to be addressed.

Use of i2c parts is covered in more detail in the separate 'i2c Tutorial' datasheet. If you are using a single i2c device you generally only need one i2cslave command within a program. With the PICAXE-18X device you should issue the command at the start of

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the program to configure
the SDA and SCL pins as
inputs ...

i2cslave - BASIC
Commands - PICAXE
Using I2c With Picaxe -
dev.iotp.annai.co.jp
USING I2C WITH
PICAXE The i2cslave
command (slavei2c also
accepted by the. Page
9/10. Online Library

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Using I2c With Picaxe. compiler) is used to configure the PICAXE pins for i2c use (in MASTER mode) and to define the type of i2c device to be addressed.

Using I2c With Picaxe -
ANNAI

i2c programming details
The i2c communication
protocol used with the

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LCD module is the same as popular eeprom's such as the 24C04. The SPE030 family code is \$C6, operates at slow speed (i2cslow) and has a single byte (i2cbyte) address size. Therefore the PICAXE i2c setup command (required before hi2cin or hi2cout is used) is

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AXE033 SERIAL I2C
LCD - PICAXE

Can I use i2c devices with
the PICAXE? All

PICAXE M2 and X2

parts support i2c devices
using the hi2cin and
hi2cout commands.

When using i2c devices
do not forget to include
the 4k7 pull-ups on the
SCL and SDA lines of the
i2c bus.

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Interfacing - FAQs - PICAXE

This should be located as close to the Picaxe chip as possible. This uses the I2C bus to connect the Picaxe to the CMPS03. It reads the single byte bearing and displays the bearing as a number 0-255 on the PC. This uses the I2C bus to connect the Picaxe to the

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PicAxe Examples -
Robot Electronics

Fit one end of the
12-inch three-conductor
cable onto the right angle
3-pin male header on the
serial adapter PCB.

Ensure that the black
wire is connected to the
bottom pin (Gnd,) the
red wire is connecte to

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the middle pin (+5V,) and the white wire is connected to the top pin (Rx.)

Using a Serial LCD with a PICAXE - Projects Using I2c With Picaxe
The readi2c command is used to read data back from the slave into variables in the PICAXE.
The syntax is readi2c

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start_address,(variable, variable,...) where start_address is the start address (byte or word as appropriate) variable is where the returned data is stored in the master (b0, b1, b2 etc) Example.

USING I2C WITH
PICAXE

Using I2c With Picaxe -
HPD Collaborative

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I have a picaxe LCD which support I2C and serial communication. You can see it here, [datasheet here](#) Now i'm trying to use my Arduino Diecimila to display something, using i2c, but the LCD is not working. Some stuff i've observed:

- the LCD works correctly with a picaxe board, always with i2c.

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Arduino and picaxe-
LCD in i2c mode

PICAXE is a
microcontroller system
based on a range of
Microchip PIC
microcontrollers.

PICAXE devices are
essentially Microchip
PIC devices, with pre-
programmed firmware
that enables bootloading
of code directly from a

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PC, simplifying hobbyist embedded development (not unlike the Arduino and Parallax BASIC Stamp systems).

picaxe microcontroller projects | PIC Microcontroller

We will be using I2C to access the PICAXE, which will be writing the adc values into the

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memory registers. The Raspberry Pi does not have a built in ADC, which is unhelpful if you need to read any kind of analogue value, such as a variable resistor position or a light level etc.

PICAXE is a line of cheap microcontrollers, designed to be easy to use for school children.

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PICAXE Raspberry Pi

ADC : 5 Steps -

Instructables

We will connect

Raspberry Pi and

PICAXE using I2C line

and PICAXE will act as

I2C slave. We will use

ADC and PWM

functionality on

PICAXE. We can use

PICAXE as port

expander too. Smallest

X2 series PICAXE-20X2

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has 18 GPIO, 11 ADC and 4 PWM. There is special memory area on PICAXE X2 series called scratchpad. If you connect PICAXE as I2C slave you will be able to access this memory same way as 24LCxx series EEPROM.

Extending Raspberry Pi
using PICAXE -

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Hackster.io

In the United States, we use inches of mercury.

One millibar corresponds to 0.02953 inches of mercury. Thus expression (3) may be modified to calculate the pressure in inches of mercury times 100. (4)

$$PHg_{100} = 0.797 * ADVal + 295$$

This may be calculated using the PICAXE in a manner

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quite similar to the above
as;

Copyright code : a693dfe
401b1c8c6468496747ffa5
670