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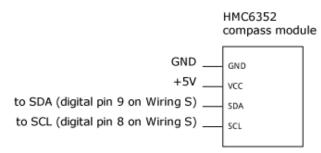
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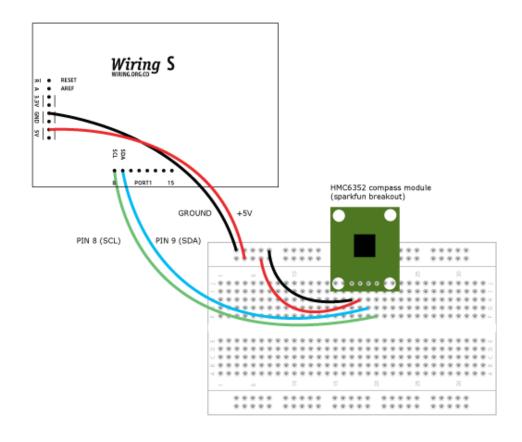


This example is for Wiring version 1.0 build 0100+. If you have a previous version, use the examples included with your software. If you see any errors or have comments, please <u>let us know</u>.

I2C HMC6352 compass heading (sparkfun breakout) by BARRAGAN (http://barraganstudio.com)

Demonstrates use of the Wire library reading data from the HMC6352 compass heading On Wiring v1 boards the SCL and SDA pins are: 0 and 1 On Wiring S board the SCL and SDA pins are: 0 and 0





```
#include <Wire.h>
int compassAddress = 0x42 >> 1; // From datasheet compass address is 0x42
int reading = 0;
void setup()
 Wire.begin();
 Serial.begin(9600); // start serial communication at 9600bps
 pinMode(WLED, OUTPUT);
 digitalWrite(WLED, HIGH);
void loop()
 Wire.beginTransmission(compassAddress); // transmit to device
 Wire.write('A');
 Wire.endTransmission(); // stop transmitting
 delay(10); // datasheet suggests at least 6000 microseconds
 Wire.requestFrom(compassAddress, 2); // request 2 bytes from slave device #33
 if (2 <= Wire.available()) // if two bytes were received</pre>
   reading = Wire.read(); // receive high byte (overwrites previous reading)
   reading = reading << 8; // shift high byte to be high 8 bits
   reading += Wire.read(); // receive low byte as lower 8 bits
   reading /= 10;
   Serial.println(reading); // print the reading
 delay(500); // wait for half a second
```

Wiring is an open project initiated by <u>Hernando Barragán</u>. It is developed by a <u>small team of volunteers</u>. © <u>Info</u>, Processing © <u>Info</u>