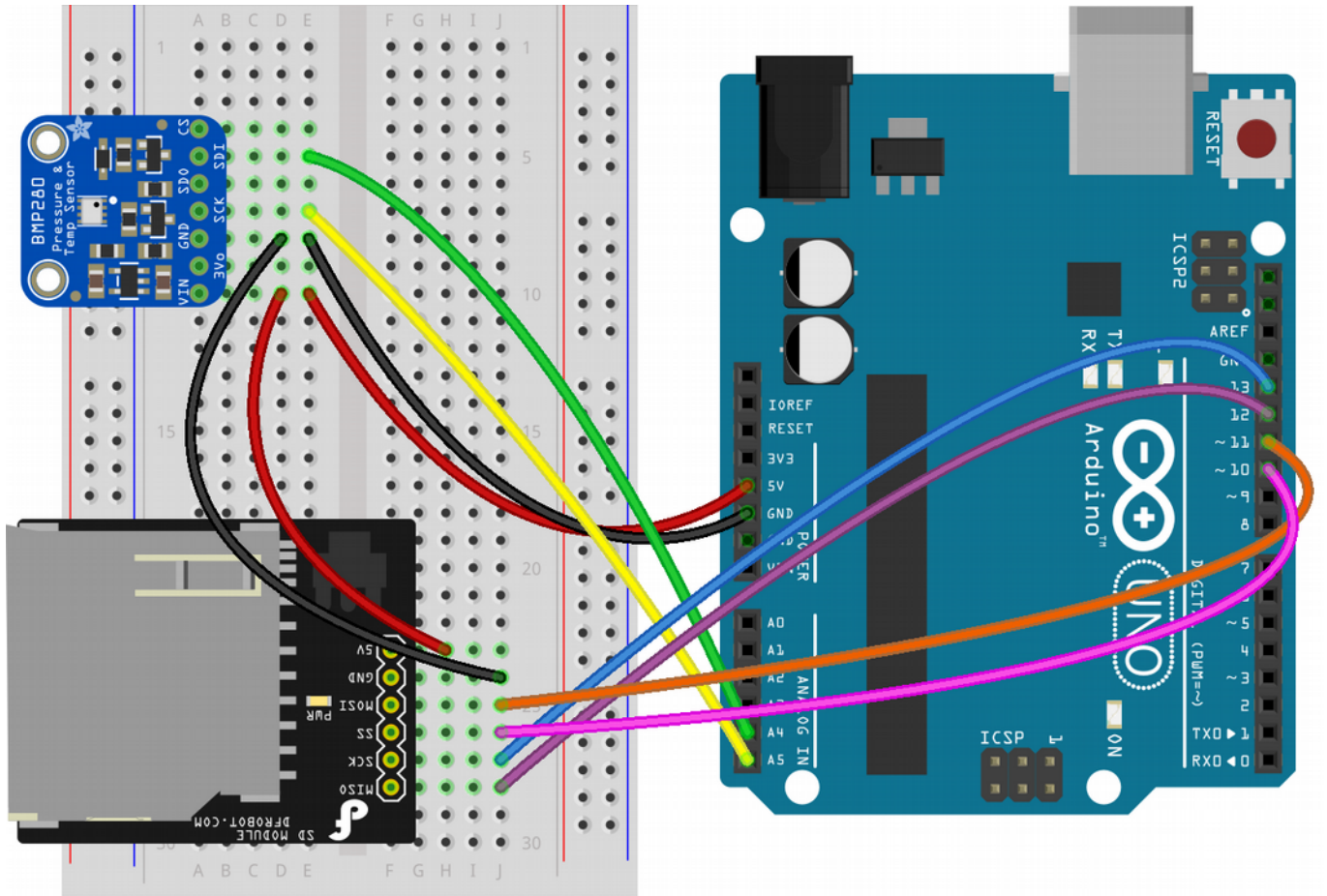


PSC 103 - Spring 2018 - Arduino Weather Station Lab

Pressure: Wiring with SD-Card



fritzing

Pressure: Code

Note: Before coding, do:

1) Sketch->Include Library->Manage Libraries, the Search for and install: Adafruit Unified Sensor (it will be all the way at the bottom and should look like this):

Adafruit Unified Sensor by Adafruit
Required for all Adafruit Unified Sensor based libraries. A unified sensor abstraction layer used by many Adafruit sensor libraries.
[More info](#)

2) Sketch->Include Library->Manage Libraries, the Search for and install: BMP280. It should look like this:

Adafruit BMP280 Library by Adafruit
Arduino library for BMP280 sensors. Arduino library for BMP280 pressure and altitude sensors.
[More info](#)

```
#include <Wire.h>
#include <SPI.h>
#include <Adafruit_BMP280.h>
#include <SD.h>

Adafruit_BMP280 bmp;

void setup()
{
  Serial.begin(9600);
  bmp.begin();
  pinMode(10, OUTPUT);
  SD.begin(10);
  SD.remove("data.csv");
}

void loop()
{
  float P;
  File out;
  unsigned long t;

  P = bmp.readPressure();
  Serial.println(P);
  delay(1000);

  t = millis();
  out = SD.open("data.csv", FILE_WRITE);
  out.print(t);
  out.print(",");
  out.println(P);
  out.close();
}
```