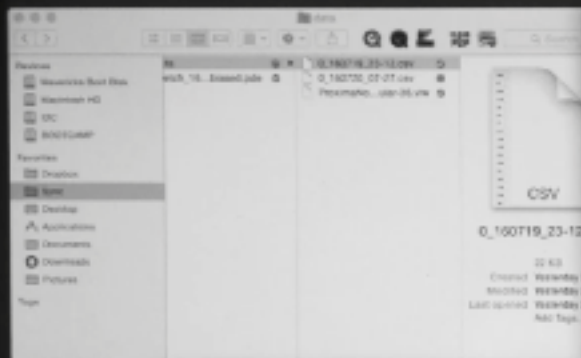


Input: Sensing



0_160719_23-12

Created: Yesterday
Modified: Yesterday
Last opened: Yesterday
Add tags...

Current incoming bit 1
4 bits have been collected

Current bits in delay:

1110

bit random number

226

3655 numbers have been generated so far

0 files have been written

sketch_160719_RNG_save_multiple_CSV_unbiased

```

410 // done: 400
411 println(str(unbiasedRNG));
412
413 if (unbiasedRNGCount <= 800) {
414   randomNumber = randomNumber + str(unbiasedRNG);
415   println("string length: " + randomNumber.length());
416   println("randomNumber: " + randomNumber);
417 } else if (unbiasedRNGCount == 8) {
418   total++; // total number of numbers generated
419   if (total < MAXVALUESHIFT) {
420     println("total: " + total);
421     appendTextToFile(saveFilePath, str(trim(unbiasedRNGCount)+"", "0"));
422     randomNumber = randomNumber + randomNumber;
423     randomNumber = "";
424     unbiasedRNGCount = 8;
425     saveRNGCount = 8;
426   }
427 } else if (total == MAXVALUESHIFT) {
428   total = 0;
429   saveCount++;
430   println("files written: " + saveCount);
431   randomNumber = "";
432   saveFilePath = str(randomNumber) + "_" + appendRNG + ".csv";
433   unbiasedRNGCount = 8;
434   saveRNGCount = 8;
435 }
436 } else {
437   resetImpulses = false;
438 }
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1000 }

```

Serial I/O:
Writing: 0

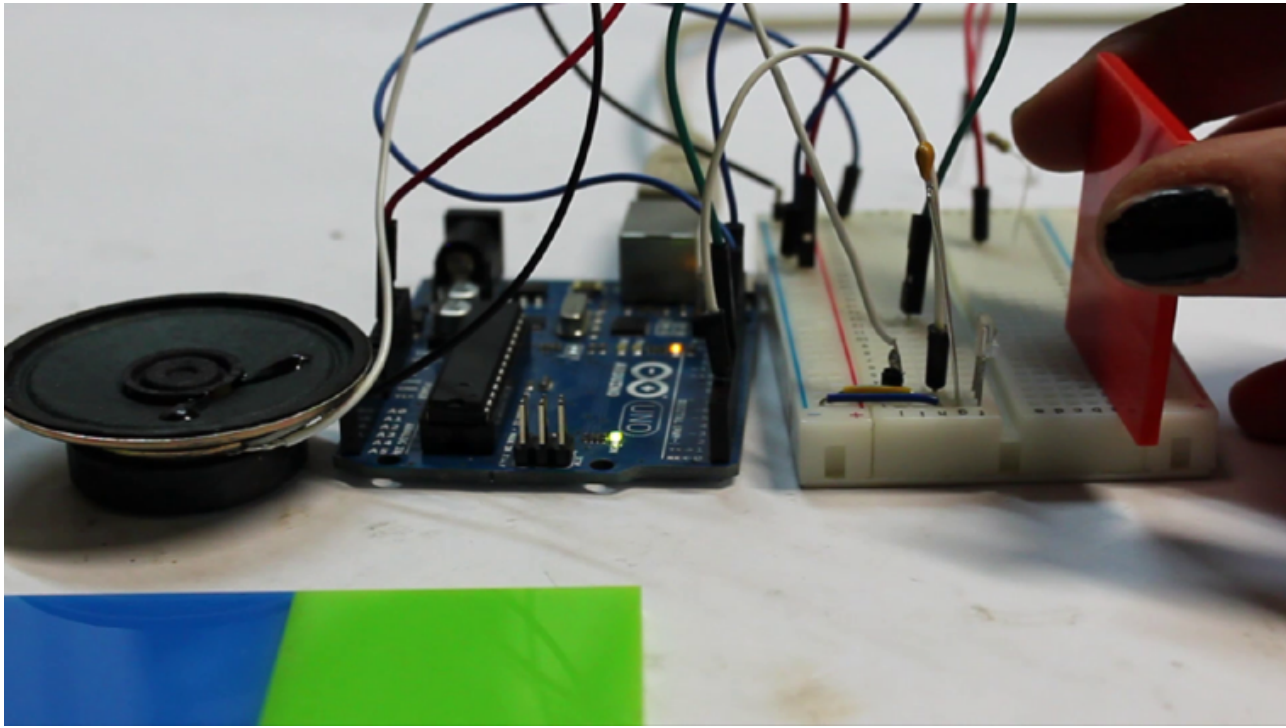
Serial I/O:
Writing: 0

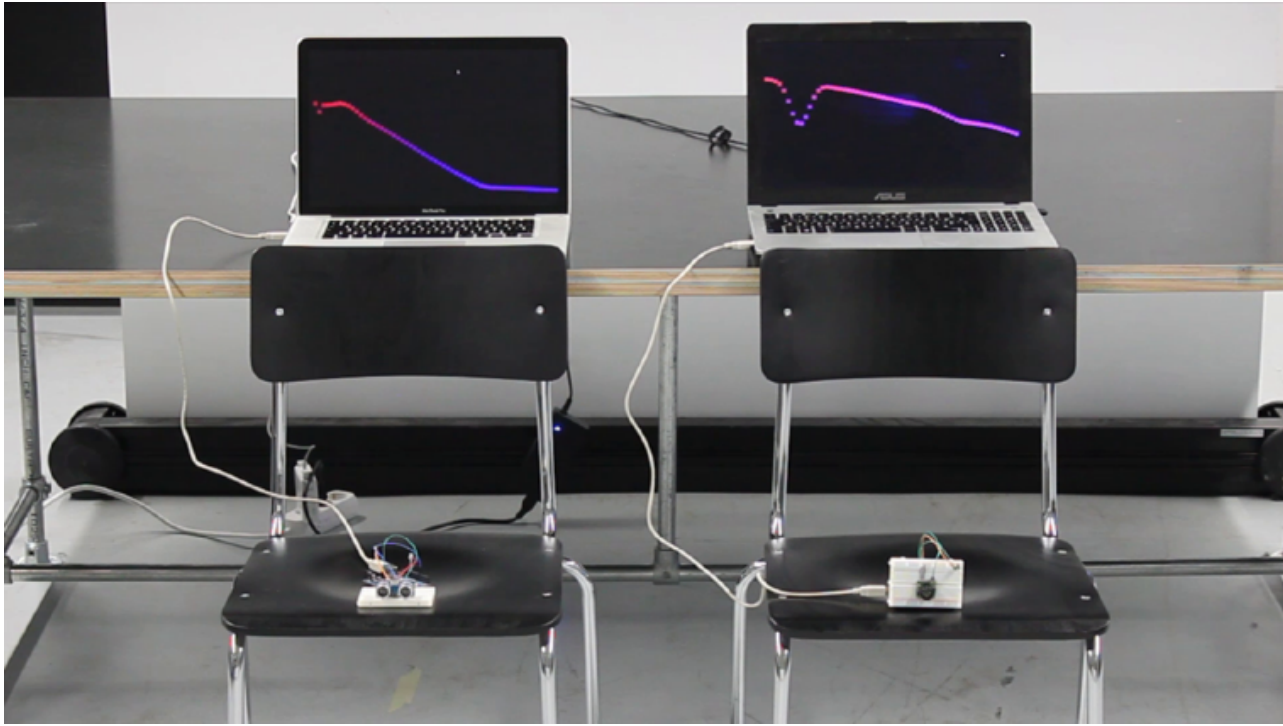
Serial I/O:
Writing: 0

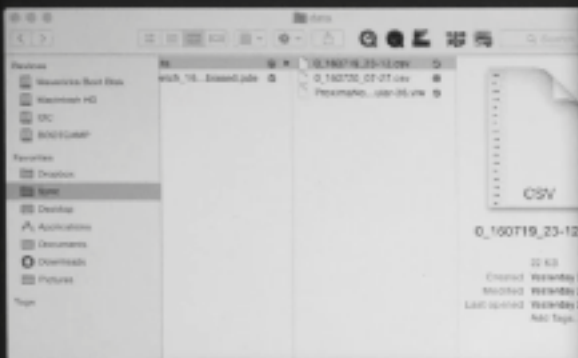
Serial I/O:
Writing: 0

Serial I/O:
Writing: 0

Serial I/O:
Writing: 0







0_160719_23-12

Created: Yesterday
Modified: Yesterday
Last opened: Yesterday
Add tags...

Current incoming bit 1
4 bits have been collected

Current bits in delay:

1110

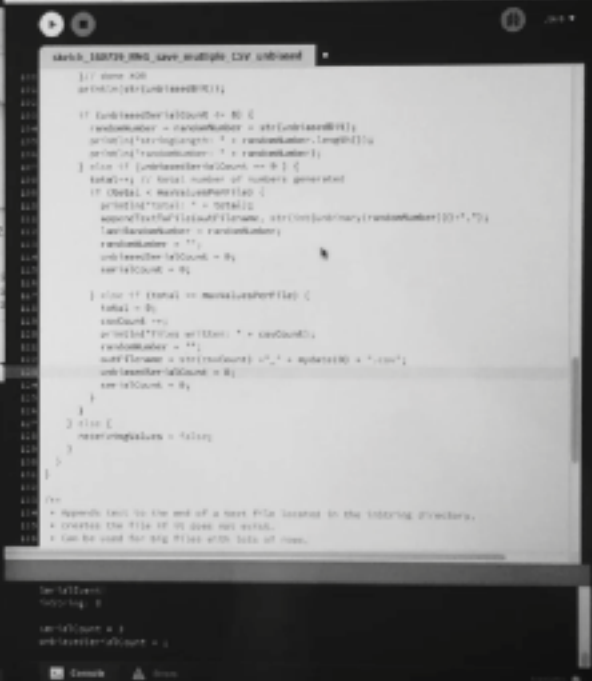
bit random number

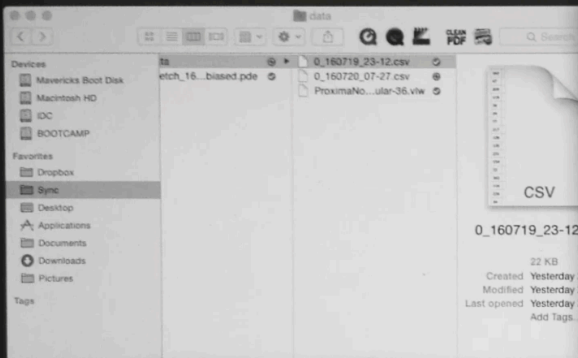
226

3655 numbers have been generated so far

0 files have been written

sketch_160719_RNG_save_multiple_CSV_unbiased





```

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```

sketch_160719_RNG_save_multiple_CSV_unbiased

Current incoming bit: 1

4 bits have been collected

current bits in binary:

1110

last random number:

226

3659 number(s) have been generated so far

0 files have been written

Arduino Uno pin 14 (w/vsmodem421)

```

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```

sketch_160719_RNG_save_multiple_CSV_unbiased

```

// done XOR
println(str(unbiasedBit));

if (unbiasedSerialCount <= 8) {
  randomNumber = randomNumber + str(unbiasedBit);
  println("stringLength: " + randomNumber.length());
  println("randomNumber: " + randomNumber);
} else if (unbiasedSerialCount == 9) {
  total++; // total number of numbers generated
  if (total < maxValuesPerFile) {
    println("total: " + total);
    appendTextToFile(outFilename, str(int(unbinary(randomNumber)))+"");
    lastRandomNumber = randomNumber;
    randomNumber = "";
    unbiasedSerialCount = 0;
    serialCount = 0;
  } else if (total == maxValuesPerFile) {
    total = 0;
    csvCount++;
    println("files written: " + csvCount);
    randomNumber = "";
    outFilename = str(csvCount) + "_" + mydate(0) + ".csv";
    unbiasedSerialCount = 0;
    serialCount = 0;
  }
} else {
  receivingValues = false;
}
}

//
* Appends text to the end of a text file located in the inString directory,
* creates the file if it does not exist.
* Can be used for big files with lots of rows.

```

```

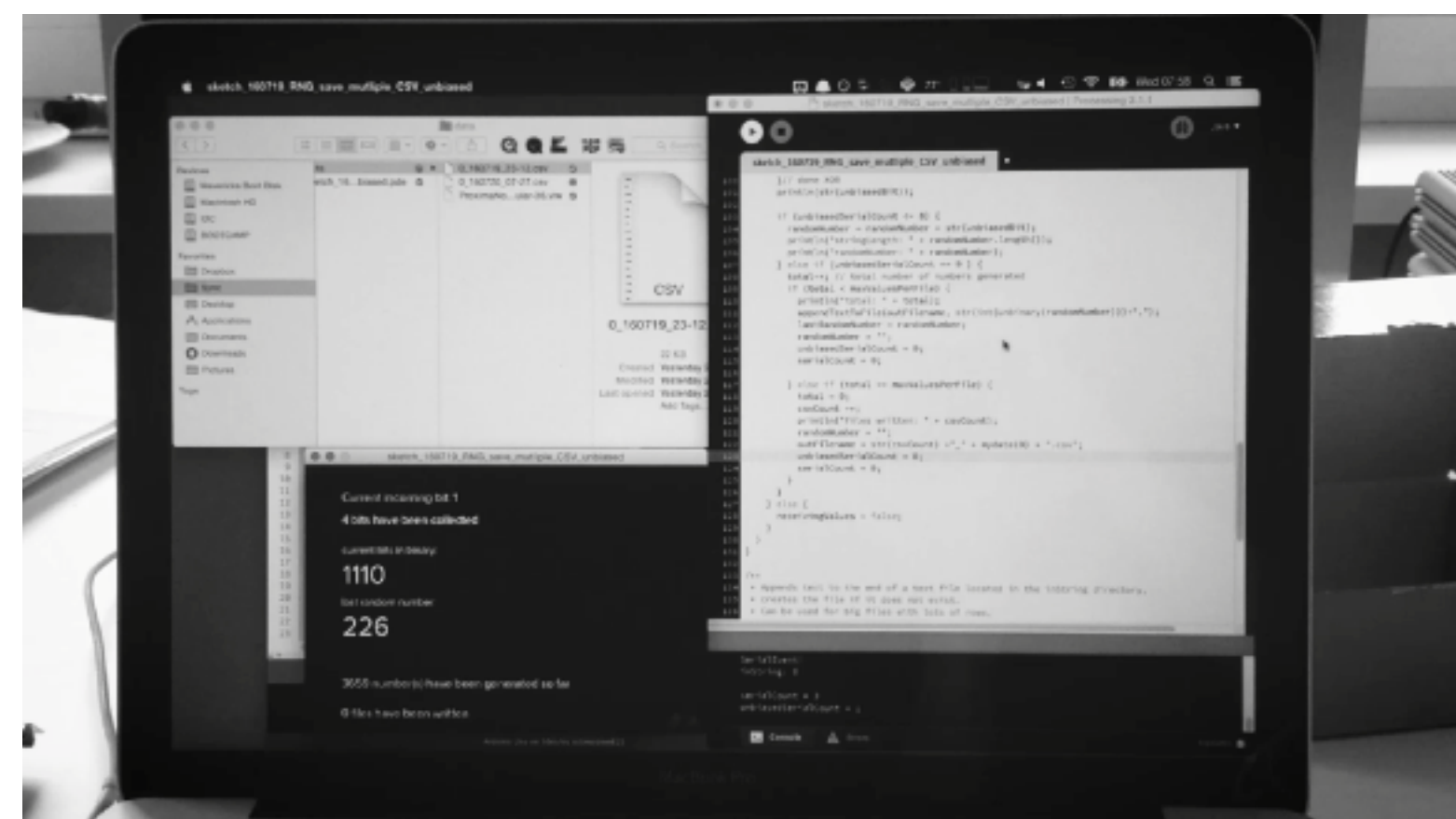
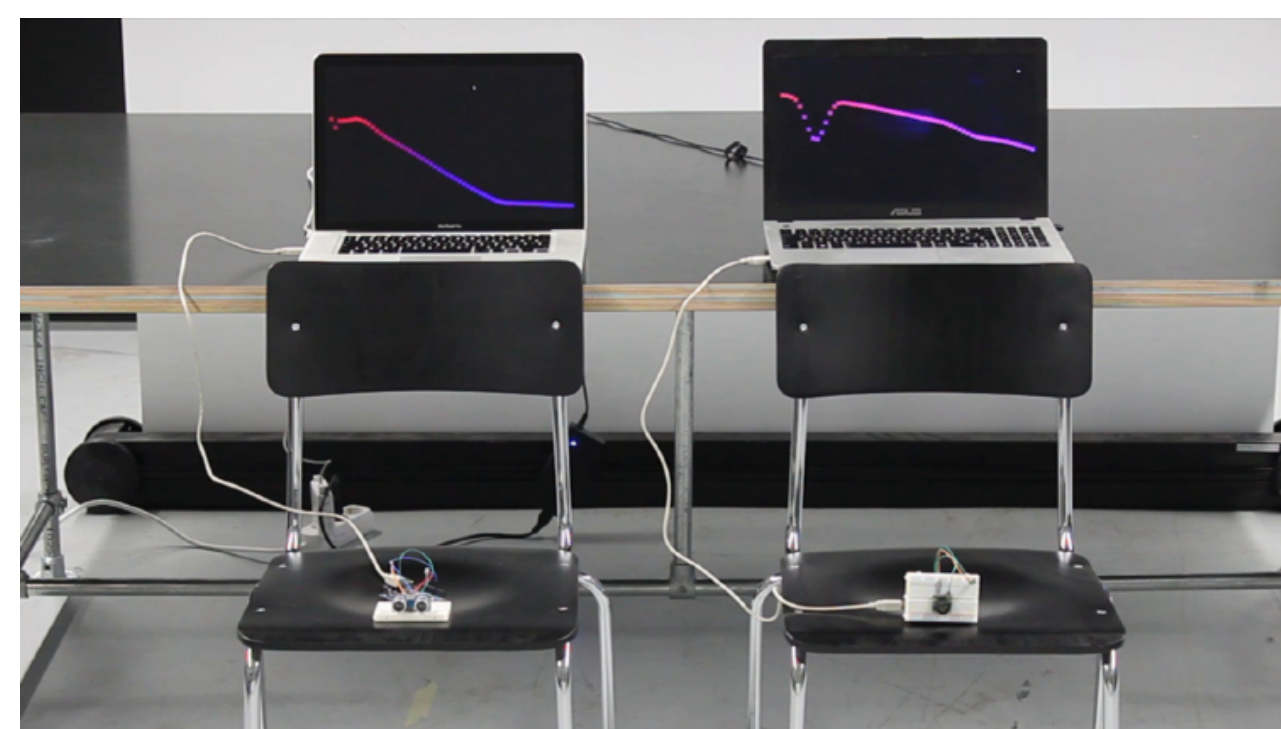
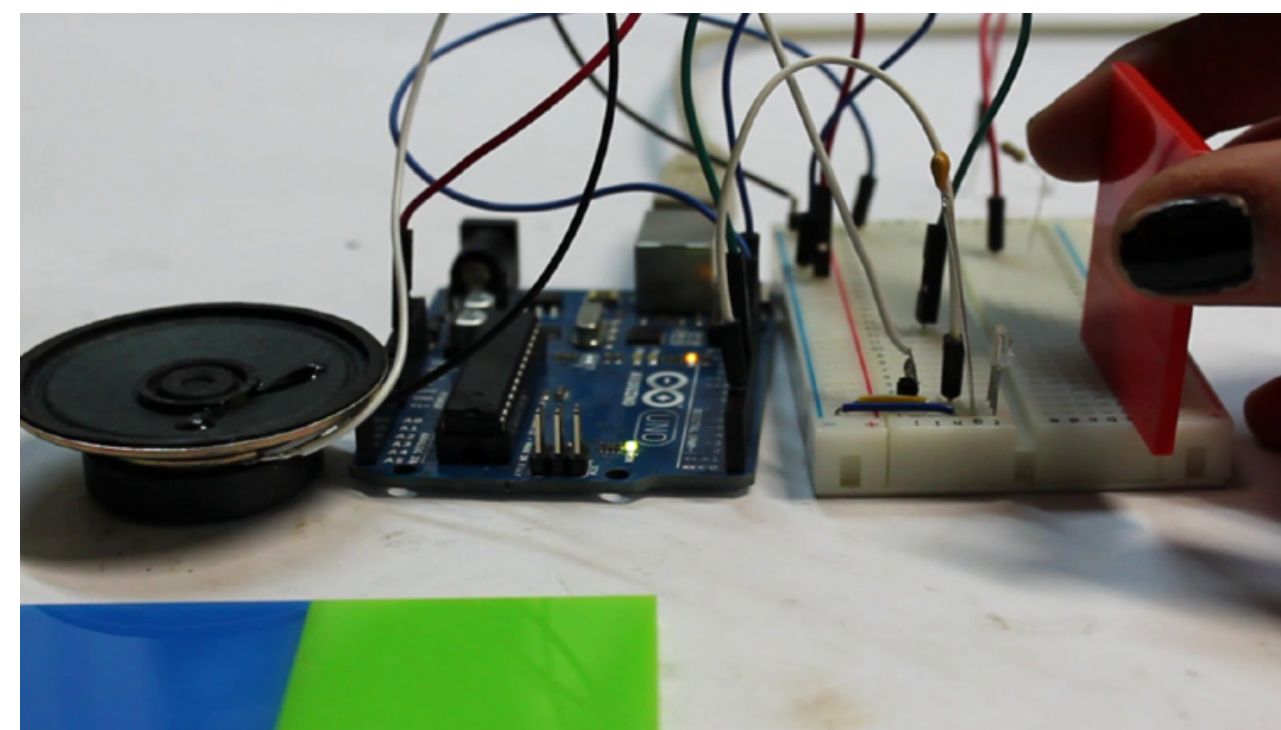
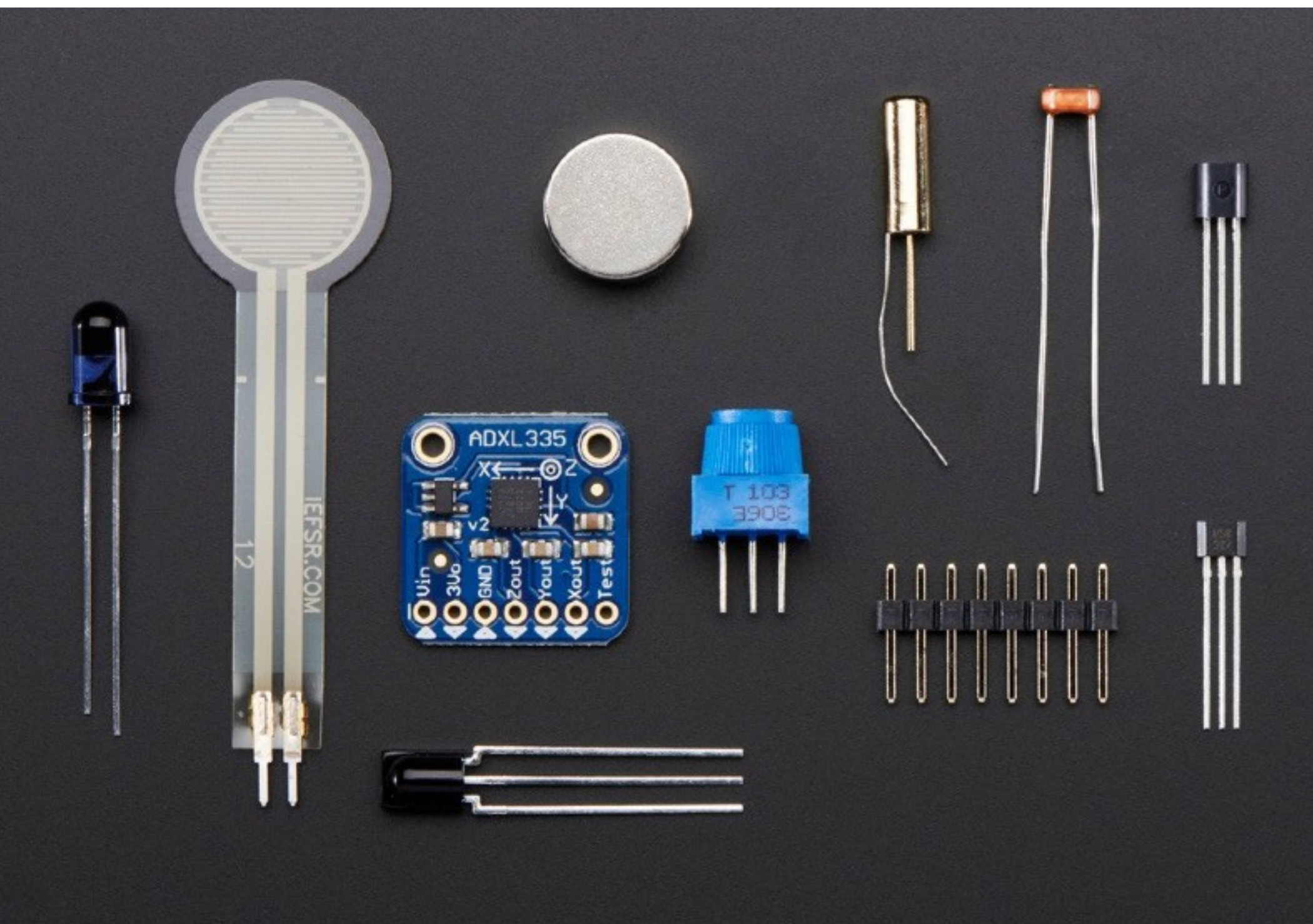
SerialEvent!
inString: 0

serialCount = 3
unbiasedSerialCount = 1

```

Console Errors

Updates



Input: Sensing

sketch_jun23b | Arduino 1.8.13

sketch_jun23b

```
1 void setup() {  
2   // put your setup code here, to run once:  
3  
4 }  
5  
6 void loop() {  
7   // put your main code here, to run repeatedly:  
8  
9 }
```

1 Arduino Nano, ATmega328P (Old Bootloader) on /dev/cu.wchusbserial1430

