### **Data Coaster** by Joanna Bou Fadel

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PREPARED FOR

Interface Design 4 - Prof. Dr. Jens Geelhaar

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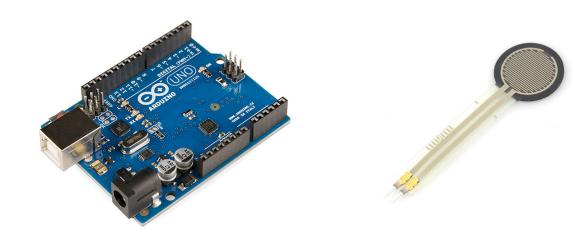
## **Data**Coaster

Measures the consumption rate during a time interval

## **Data**Coaster

How does it work?

components



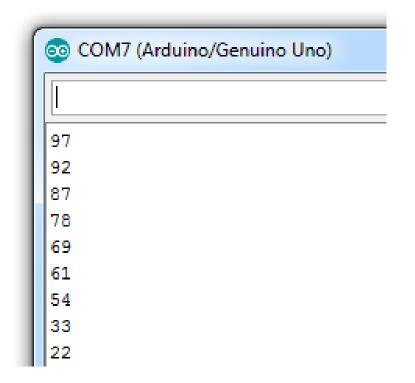
Arduino

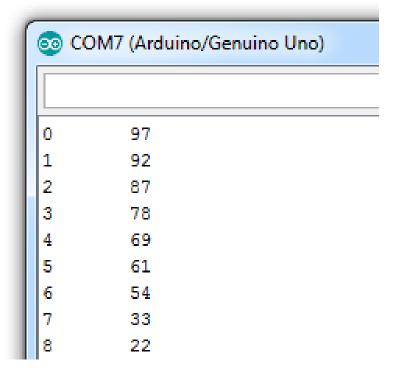
**Force sensor** 

code

```
#include <EEPROM.h>
int addr = 0;
void setup() {
  Serial.begin(9600);
  pinMode (0, INPUT);
void loop() {
  int sensorval = analogRead(0);
  sensorval = map(sensorval, 0, 1023, 0, 100); //convert the values
  Serial.println(sensorval, DEC); //retrieve the values
  delay(60000); //add a delay of 1 minute
  EEPROM.write(addr, sensorval); //store the value on the equivalent byte
  addr = addr + 1; //move to the next byte
```

values stored and retrieved



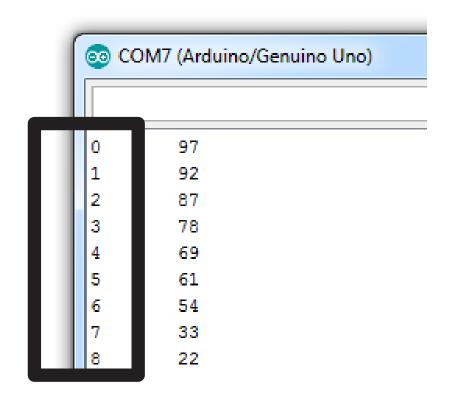


**Sensor values** 

**Data retrieved** 

values stored and retrieved

EEPROM address (byte) equivalent to minutes



# **Data**Coaster

Future components?

# Thank you!