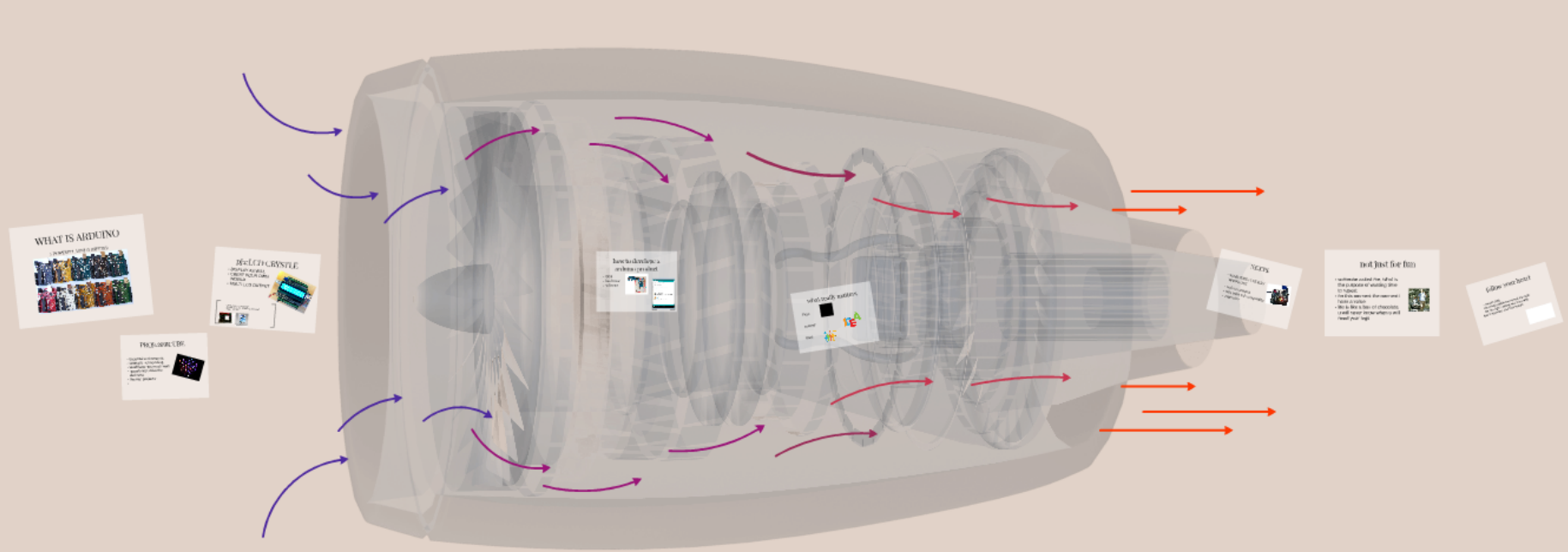


arduino spirits

david haidong chen

12307110006



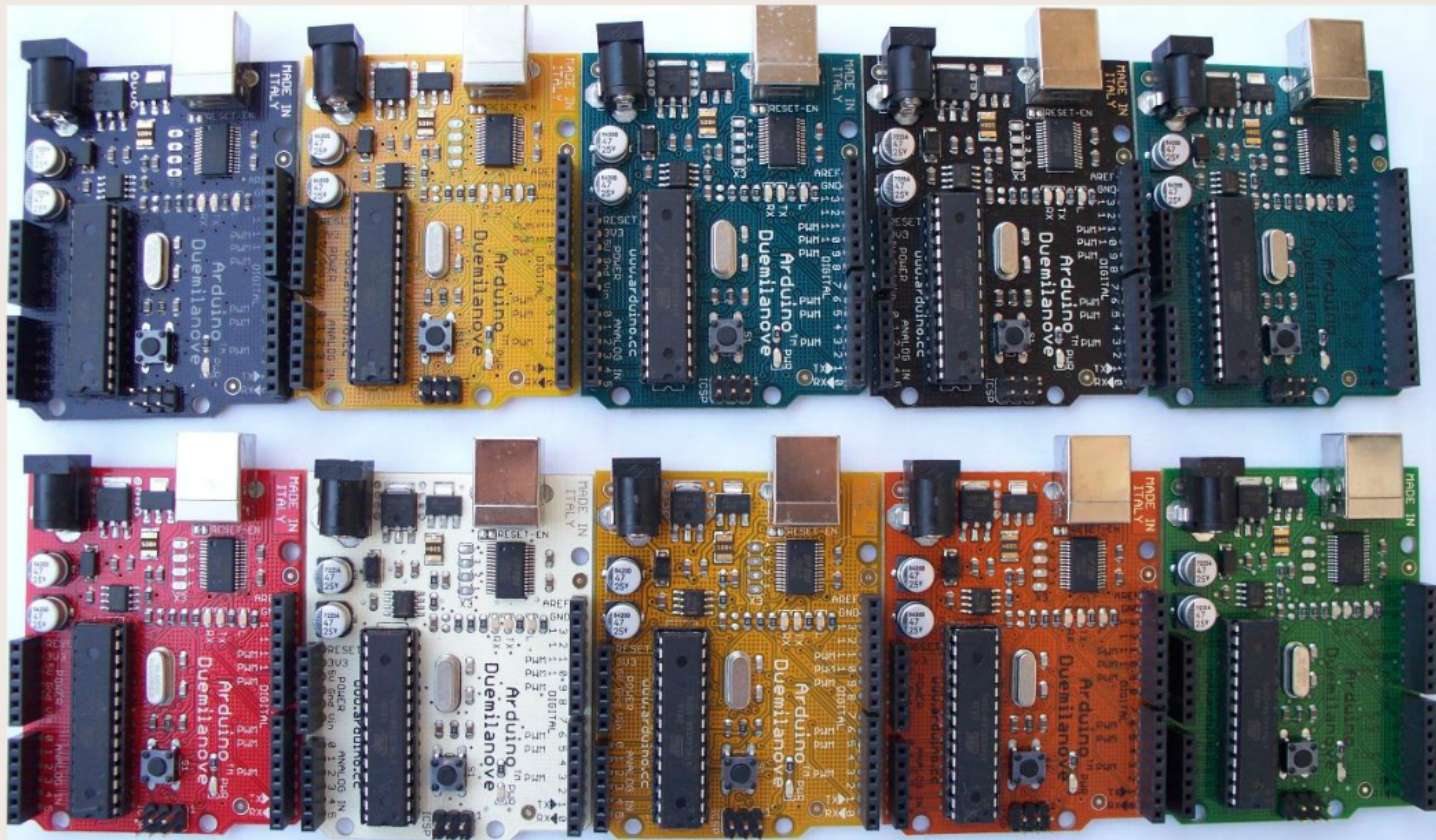
arduino spirits

david haidong chen

12307110006

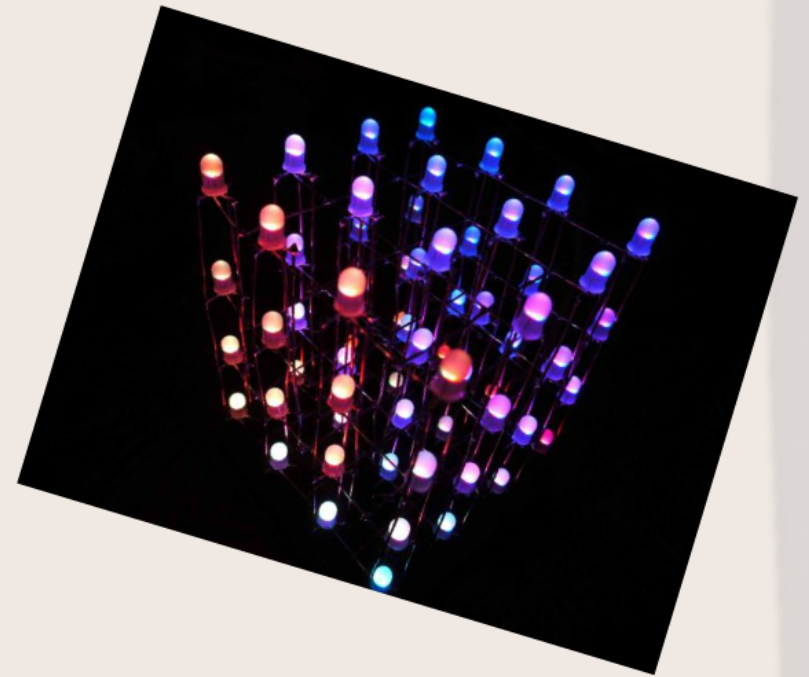
WHAT IS ARDUINO

A POWERFUL MINI COMPUTER



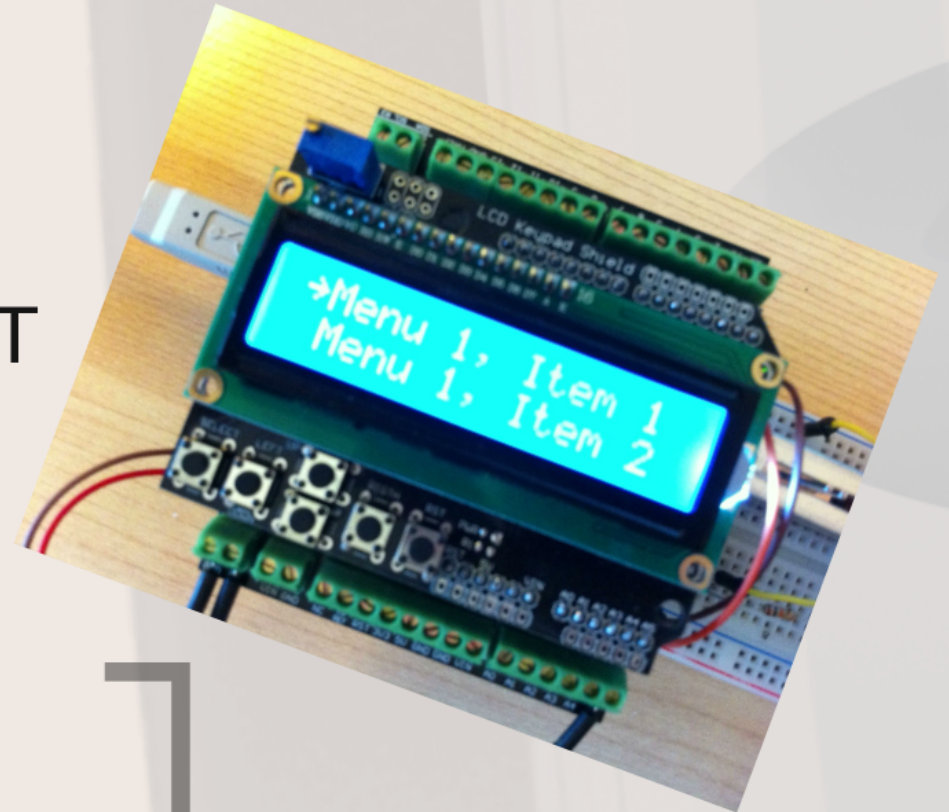
PROJ₁:888CUBE

- beautiful and romantic
- strength: 3d moduling
- weakness: too much work
- opportunity: drive the darkness
- thearts: projector
-



pj2:LCD CRYSTLE

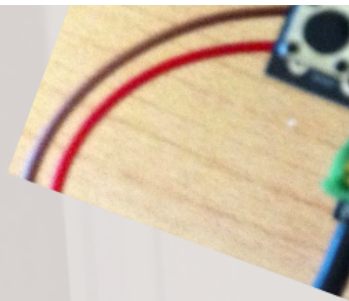
- DISPLAY AS WILL
- CREAT YOUR OWN WORLD
- MULTI LCD OUTPUT



- USING c OR C++ LANGUAGE
- MAJOR CONCERN IS THE MACHINE CODE
- HOW IT LOOKS?

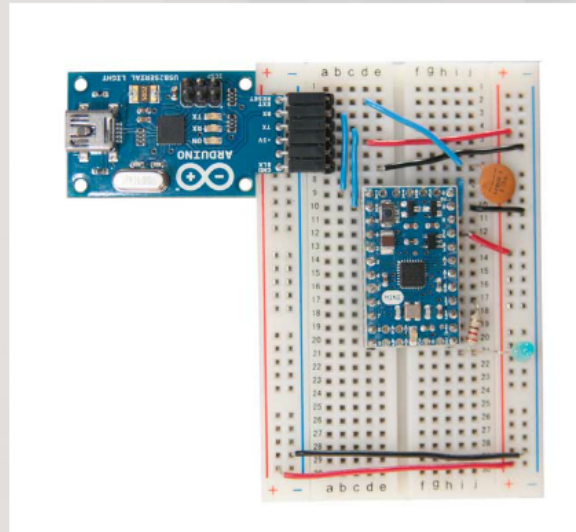


- USING c OR C++ LANGUAGE
- MAJOR CONCERN IS THE MACHINE CODE
- HOW IT LOOKS?



how to develop a arduino product

- ideal
- hardware
- software



```
APC_03_TVweatherstation | Arduino 1.0.1
File Edit Sketch Tools Help
APC_03_TVweatherstation | apctogo.cpp apctogo.h
//
// APC Magazine - Arduino MasterClass - Project #3
// APC TV Weather Channel
// (C) © November 2012, Darren Yates.
//
// Use the TFont library by Myles Metzler
// Use the DHT11 library at Arduino.cc
//
-----
#include <TFont.h> // include the TFont library
#include <cfontALL.h> // include the screen font info from the library
#include <DHT11.h> // include the DHT11 sensor library
#include "apctogo.h" // include our APC logo file! :)
-----
#define DHT11PIN 11 // set pin 11 on the Arduino Uno as the input pin from the DHT11

TFont TV; // create TV as a TFont class
DHT11 DHT11; // create DHT11 as a dht11 class
int DHTread = 0; // set DHTread as an integer variable
int temp = 0; // set temp as integer variable
int humid = 0; // set humid as integer variable

void setup() { // the run-once setup procedure

  TV.begin(PAL,120,96); // set the TFont array to a screensize of 120x96-pixels and PAL mode
  TV.select_font(font6x8); // select the 6x8 mid-size font
  init(); // run the init() procedure (and show our logo)
  TV.clear_screen(); // clear the screen
  TV.println("APC Weather Channel\n\n"); // print these lines - \n means new line
  TV.println("Temperature:");
  TV.println("\n\n");
  TV.println("Humidity:");
  TV.println("\n\n    apcmsg.com");
  TV.print(80,34,"degC"); // print 'degC' at X-Y co-ordinates (80, 34)
  TV.print(80,44,"degF"); // do similar
  TV.print(80,66,"%"); // and again
}

void loop() { // the continuous-until-I-blew-up loop

  DHTread = DHT11.read(DHT11PIN); // read the data from the DHT11 sensor
  TV.select_font(font6x8); // set the TV font to the big 6x8 font
  TV.print(DHTread); // read the temperature data (also in its suitable format)
}

Done uploading
Binary sketch size: 12,000 bytes (of a 32,768 byte maximum)
54
```



```
// -----  
// APC Magazine - Arduino MasterClass - Project #3  
// APC TV Weather Channel  
// (C) 8 November 2012, Darren Yates.  
//  
// Uses the TVout library by Myles Metzler  
// Uses the DHT11 library at Arduino.cc  
// -----  
  
#include <TVout.h> // include the TVout library  
#include <fontALL.h> // include the screen font info from the library  
#include <dht11.h> // include the DHT11 sensor library  
#include "apclogo.h" // include our APC logo file! :)  
  
#define DHT11PIN 11 // set pin 11 on the Arduino Uno as the input pin from the DHT11  
  
TVout TV; // create TV as a TVout class  
dht11 DHT11; // create DHT11 as a dht11 class  
int DHTread = 0; // set DHTread as an integer variable  
int temp = 0; // set temp as integer variable  
int humid = 0; // set humid as integer variable  
  
void setup() { // the run-once setup procedure  
  
  TV.begin(PAL,120,96); // set the TVout array to a screensize of 120x96-pixels and PAL mode  
  TV.select_font(font6x8); // select the 6x8 mid-size font  
  intro(); // run the intro procedure (and show our logo)  
  TV.clear_screen(); // clear the screen  
  TV.println("APC Weather Channel\n\n"); // print these lines - \n means new line  
  TV.println("Temperature:");  
  TV.println("\n\n");  
  TV.println("Humidity:");  
  TV.println("\n\n      apcmag.com");  
  TV.print(80,34,"degC"); // print 'degC' at X-Y co-ordinates (80, 34)  
  TV.print(80,44,"degF"); // do similar  
  TV.print(80,66,"%"); // and again  
  
}  
  
void loop() { // the continuous-until-I-blow-up loop  
  
  DHTread = DHT11.read(DHT11PIN); // read the data from the DHT11 sensor  
  TV.select_font(font8x8); // set the TV font to the big 8x8 font  
  temp = DHT11.temperature; // read the temperature data, store it in variable 'temp'
```

Done uploading.

Binary sketch size: 12,000 bytes (of a 32,256 byte maximum)

what really matters

First:



second:

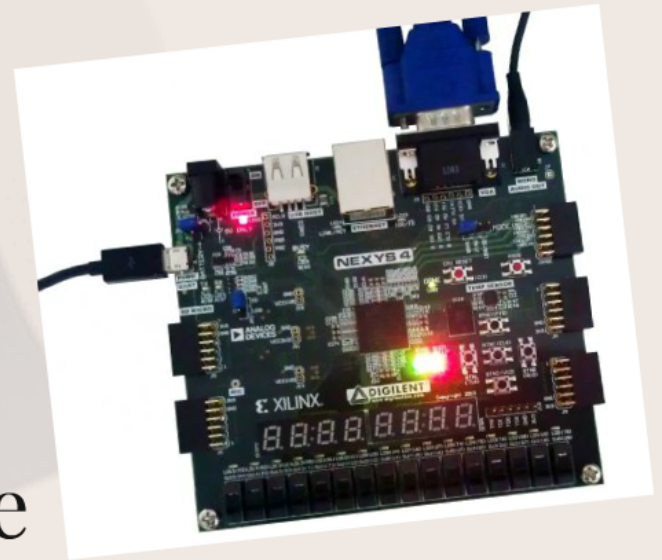


third:



NEXYS

- SOMETHING I REALLY WANNA TRY
- real vga out put
- usb, mini usb compatible
- expensive



not just for fun

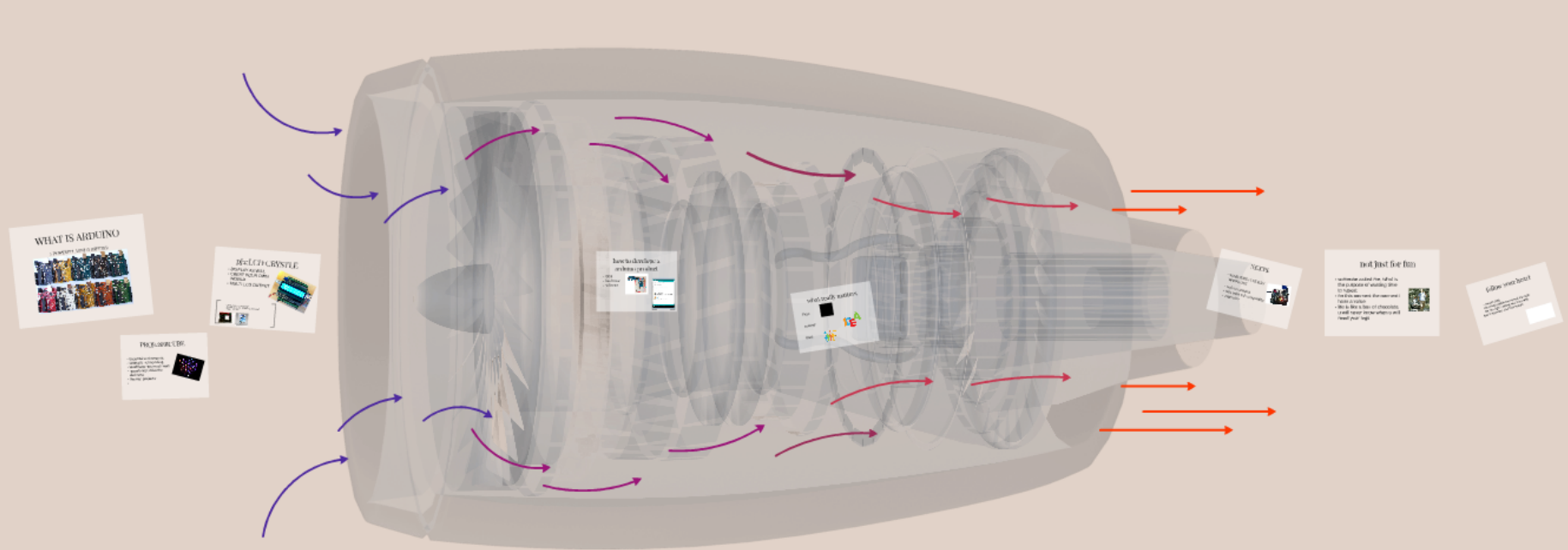
- someone asked me, what is the purpose of wasting time to repeat
- for this moment the moment i have a value
- life is like a box of chocolate, u will never know when u will need your legs



follow your heart

- recent proj
chemistry professor need my help
for the light cutting machine with
low frequency and fast switch





arduino spirits

david haidong chen

12307110006