FASHION TECHNOLOGY x LILYPAD ARDUINO

Sarah Yun & Vanessa Prema
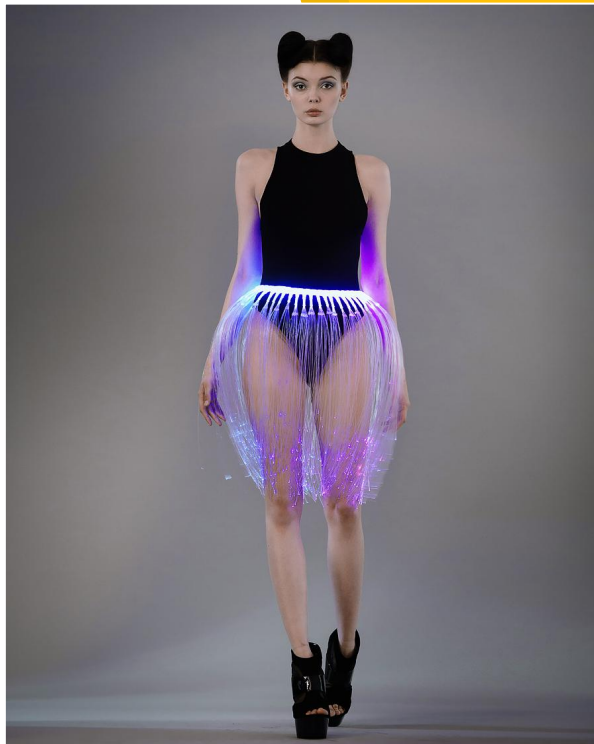
HELLO!
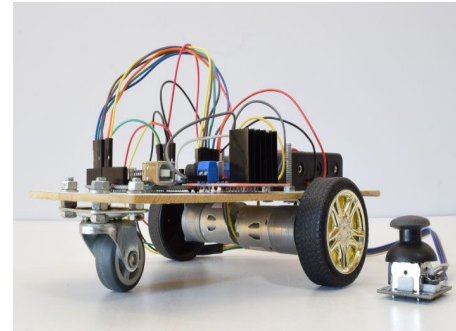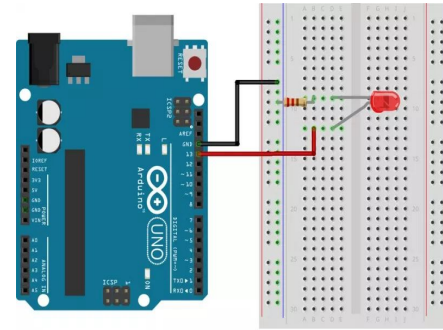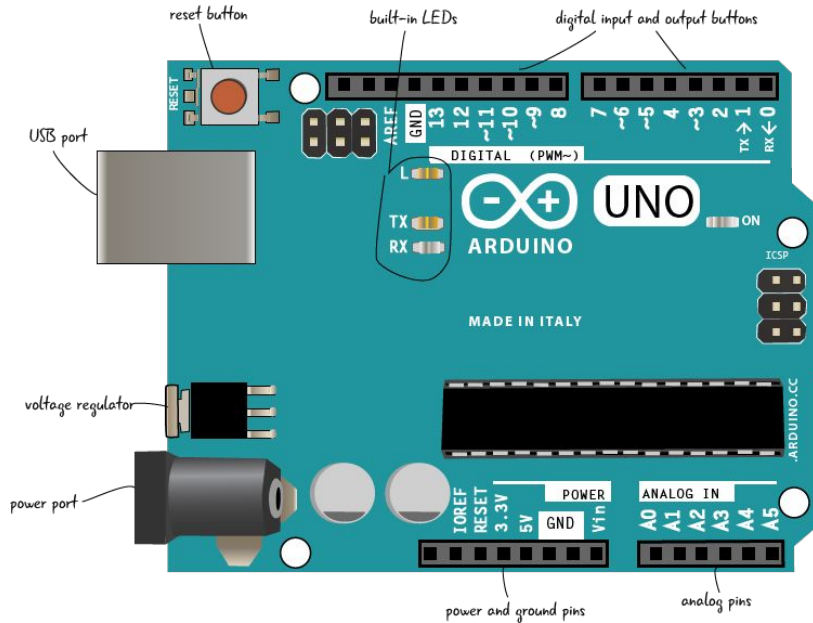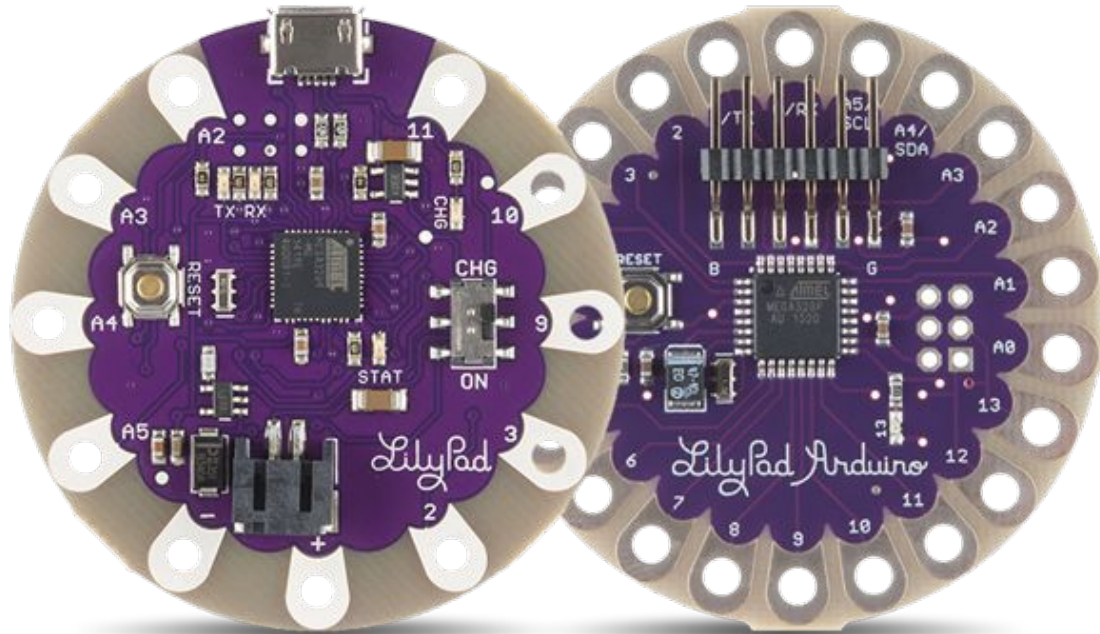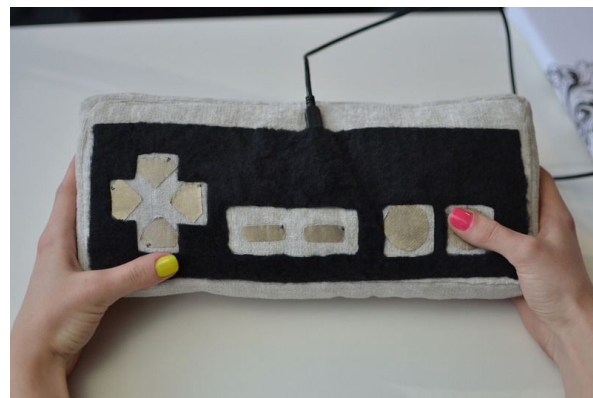
BEYOND WEARABLES

FASHION
TECHNOLOGY

WHAT IS ARDUINO?

reset button

built-in LEDs

digital input and output buttons

USB port

RESET

AREF
GND
13 ~12 ~11 ~10 ~9 8   7 ~6 ~5 4 ~3 2 TX▶1 RX◀0

DIGITAL (PWM~)

L
TX
RX

UNO

ARDUINO

ON

ICSP

MADE IN ITALY

ARDUINO.CC

voltage regulator

power port

IOREF
RESET
3.3V
5V
GND
Vin

POWER

ANALOG IN

A0 A1 A2 A3 A4 A5

power and ground pins

analog pins

5

LILYPAD ARDUINO

UNO VS LILYPAD

Arduino UNO labels: reset button, built-in LEDs, digital input and output buttons, USB port, voltage regulator, power port, power and ground pins, analog pins

LilyPad Arduino labels: Reset Button, 4 Input pins: a2, a3, a4, a5, FTDI Connector (to connect to PC), Negative Lead, 9 Output pins: 5, 6, 9, 10, 11, 16, 17, 18, 19, Battery Connector, Positive Lead, On / Off Switch, Processor / "brain"
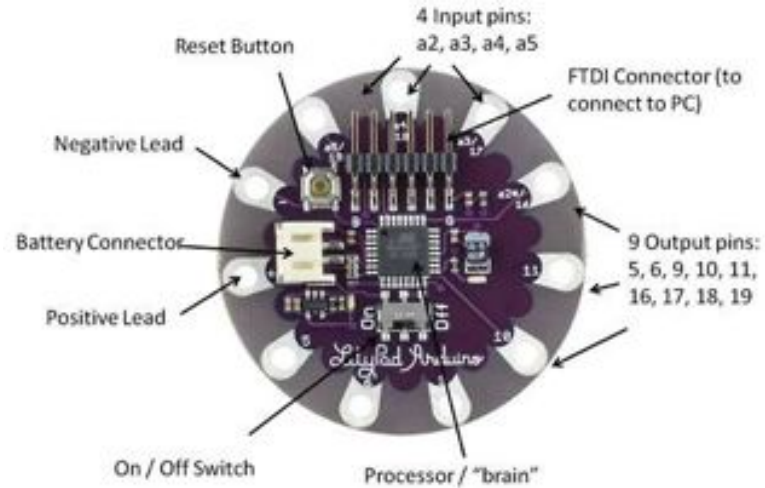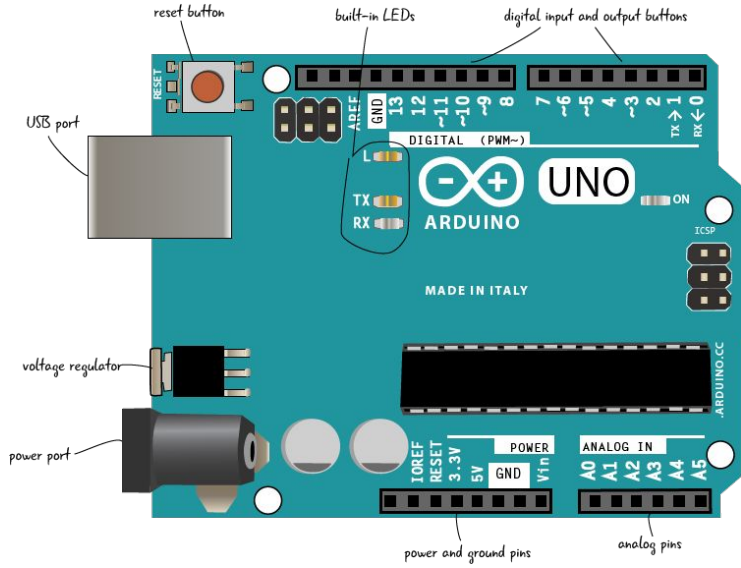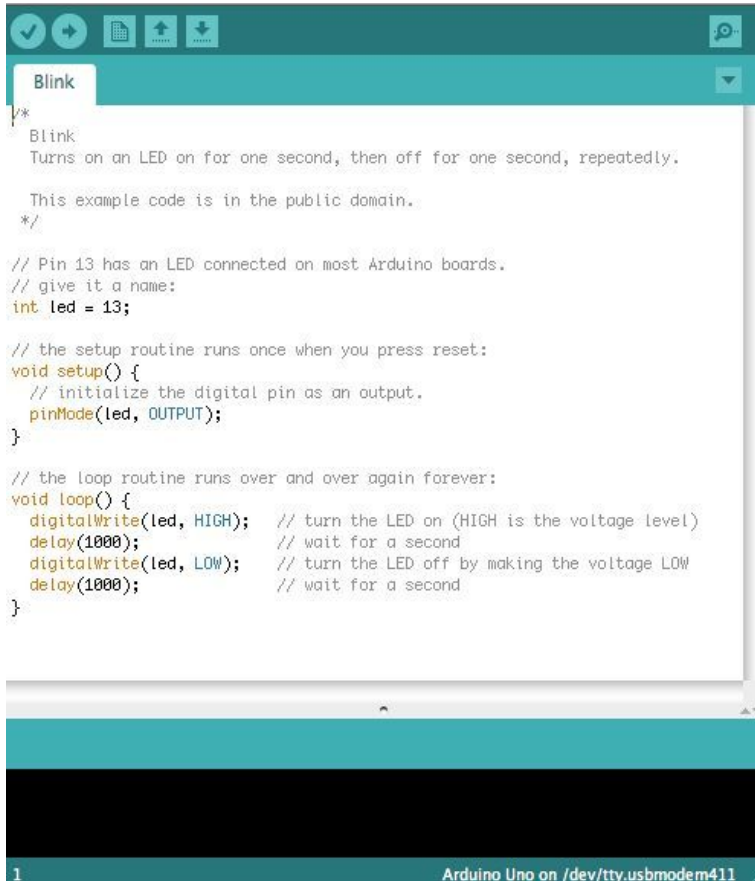
LILYPAD
IMPLEMENTATION

ARDUINO LANGUAGE

Main components

- ▸ Structure
- ▸ Values
- ▸ Functions

DEMO

QUESTIONS?