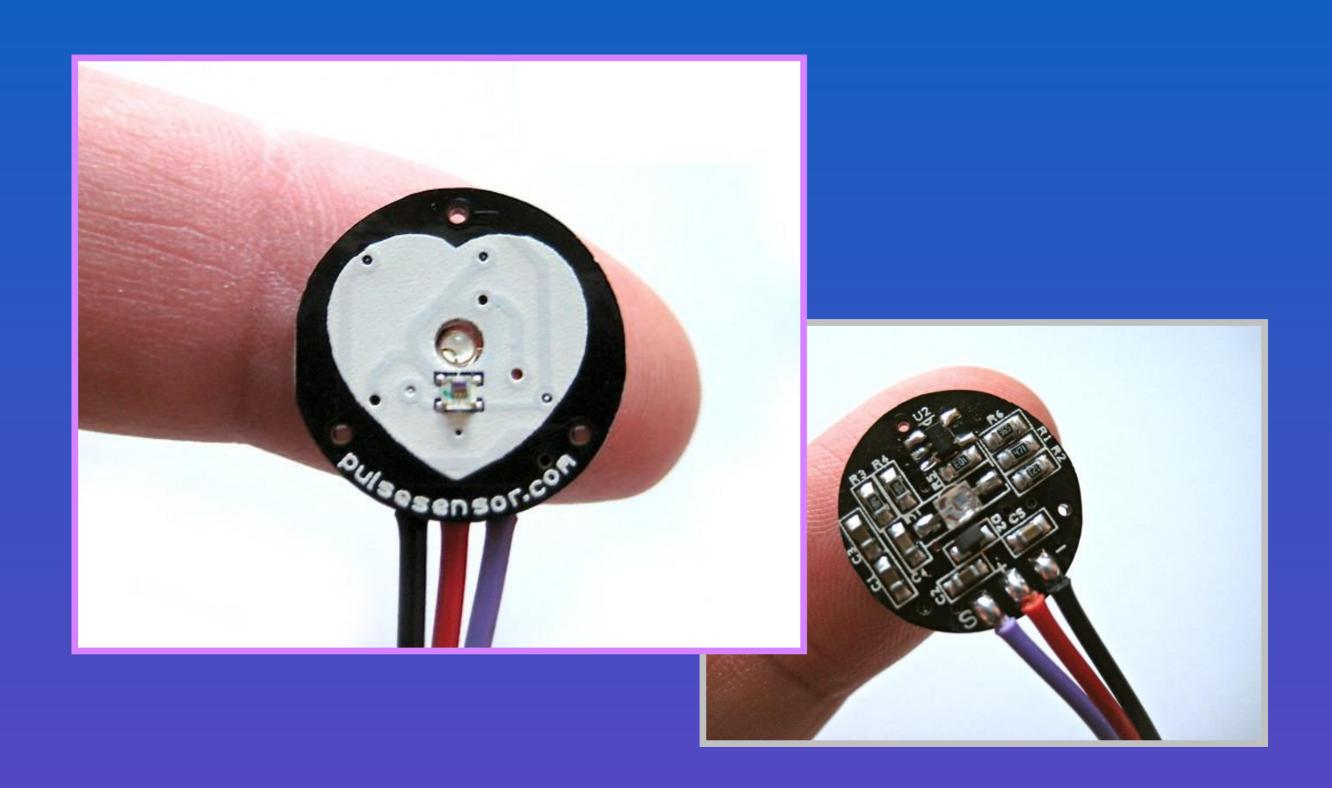


HEART BITS

Hackers & Designers 2019

PULSE SENSOR

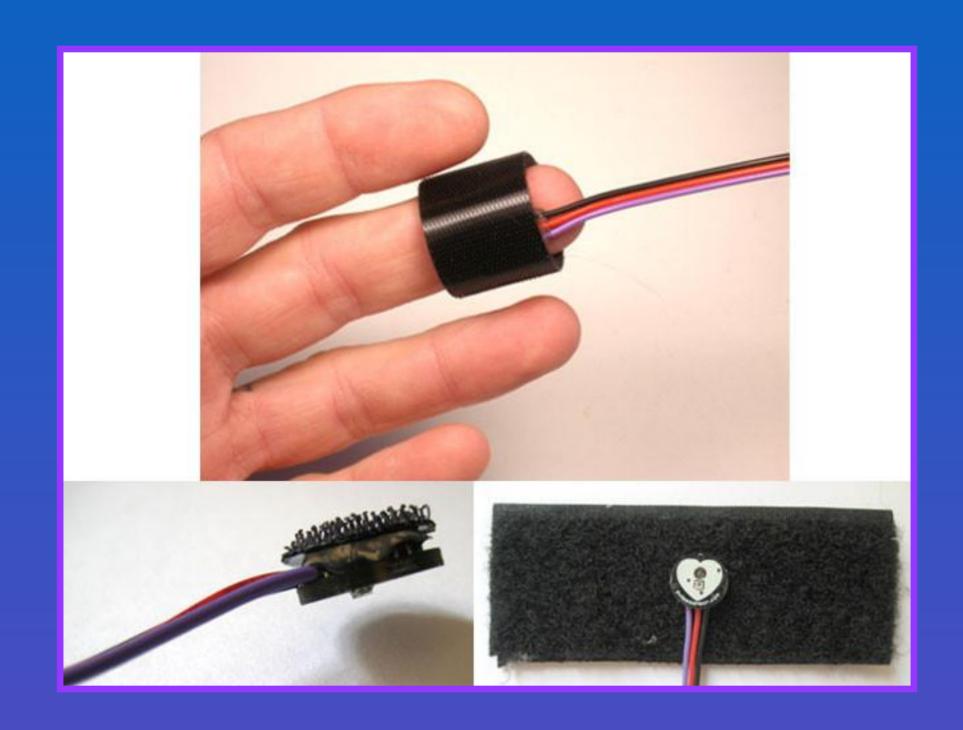


PULSE SENSOR

OPEN SOURCE HARDWARE

JOEL MURPHY AND YURY GITMAN

LED AND AMBIENT LIGHT SENSOR





THINGS TO CONTROL

SOUND PARAMETERS:

GRAPHIC PARAMETERS:

PITCH
VOLUME
FILTER FREQUENCY
LFO RATE

COLOR
SIZE
ANIMATION SPEED
NUMBER OF PARTICLES

PROTOCOLS & SOFTWARE

LIBRARIES

- * SERIAL
- * MIDI
- * OSC
- **★ CV**

SOFTWARE

- **★ PROCESSING**
- ★ P5JS
- **★ SONIC PI**
- * ABLETON LIVE

CONTROLLING YOUR PULSE

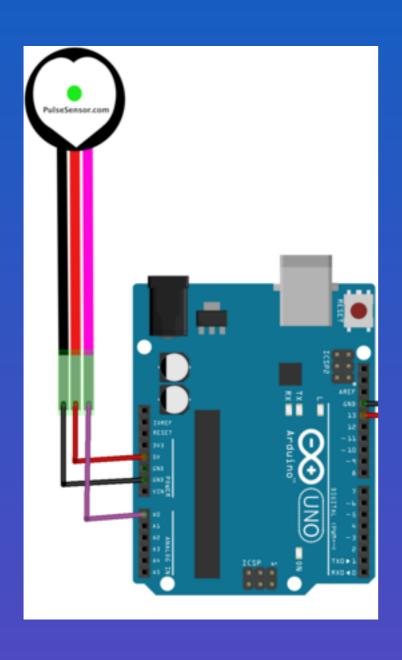
S

SS

SSS

ssss

CONNECTING THE SENSOR



5V to +
GND to A0 to S

SOFTWARE:

github.com/kabrio/Heart-Bits

RESOURCES

github.com/kabrio/Heart-Bits

github.com/avalliere/heartbeatProto

pulsesensor.com

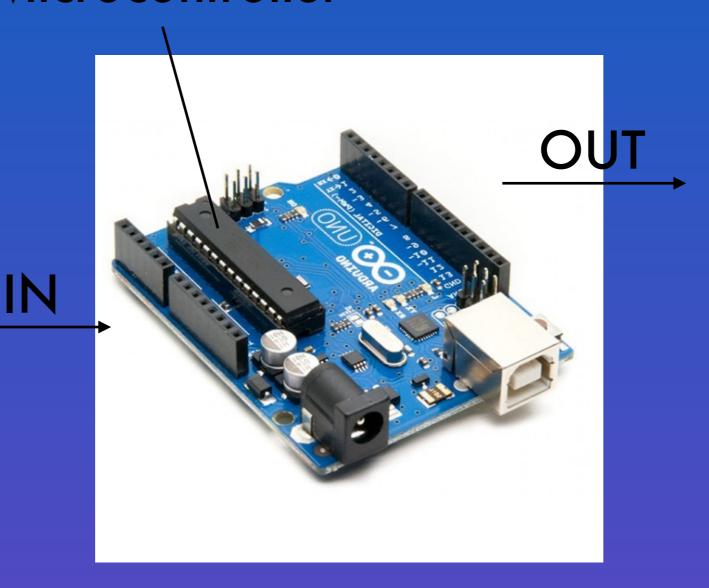
Open Source Files & Tech Specs

ARDUINO

ARDUINO BOARD

Microcontroller

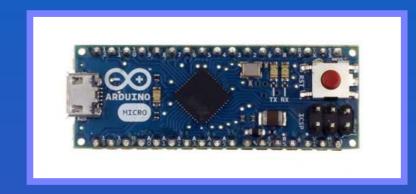
Switches
Buttons
Dials
Sensors
Data
etc...



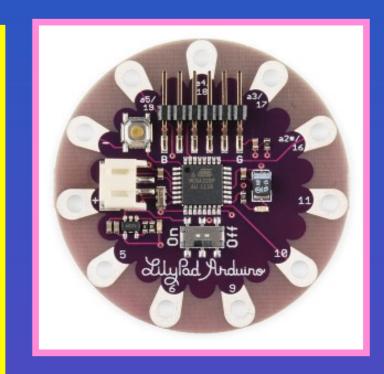
LEDs
Displays
Motors
Data
etc...

ARDUINO BOARDS

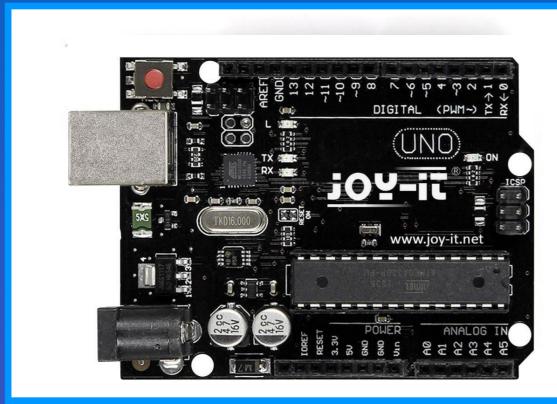


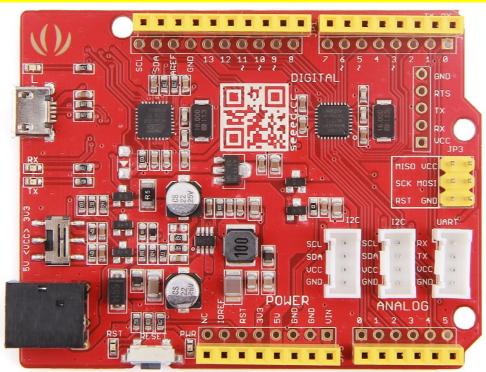


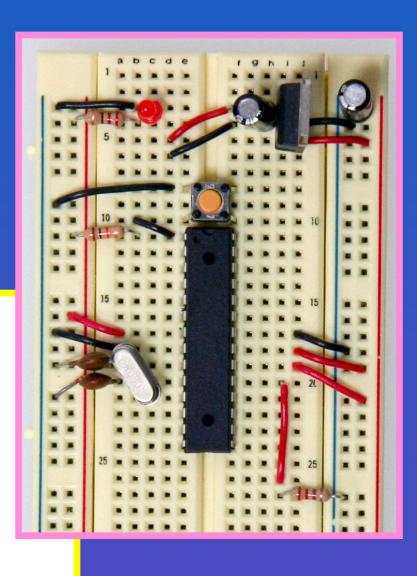




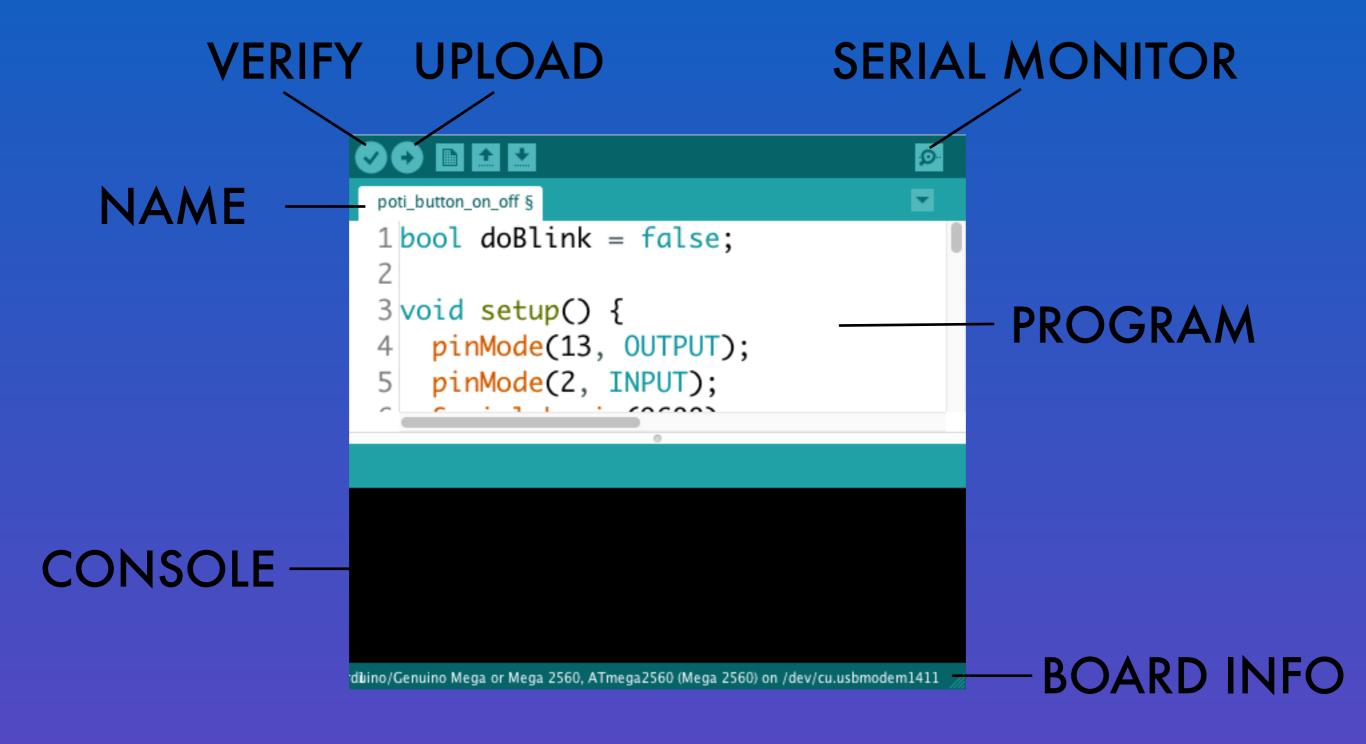
ARDUINO BOARDS







ARDUINO IDE



ARDUINO LINKS

ARDUINO COMMANDS
www.arduino.cc/reference/en/

ARDUINO PROJECTS create.arduino.cc/projecthub

ARDUINO TUTORIALS www.arduino.cc/en/Tutorial