Lesson 4: Introduction to Arduino

What is it?

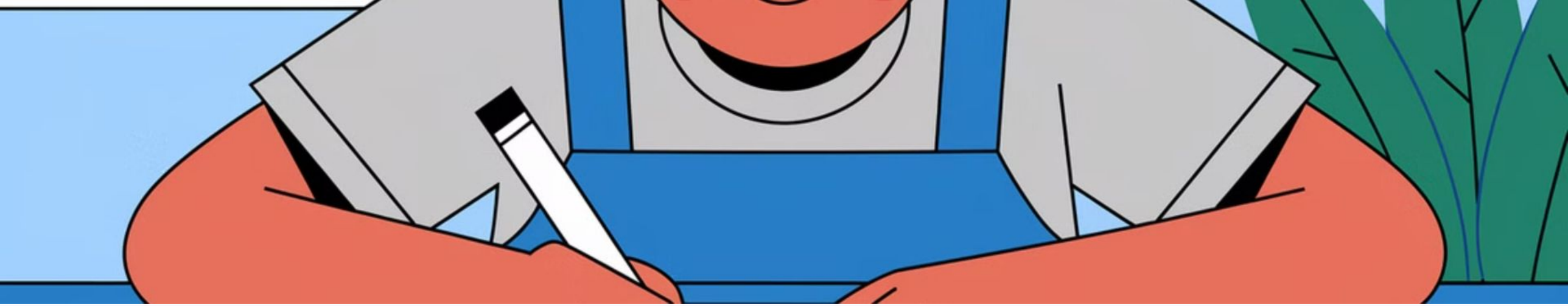
An open-source electronics develop platform.

Why use it?

Easy to program and interface with sensors.

Lesson Overview

Setting up the Arduino environment.



Hands-on: Creating Simple Sensors

Drawing

Create patterns with conductive ink.

Testing

Measure touch sensitivity with a multimeter.

Connecting

Integrate with electronic components.

Exploring Gesture Recognition

1

Taps

Single touch events for simple actions.

2

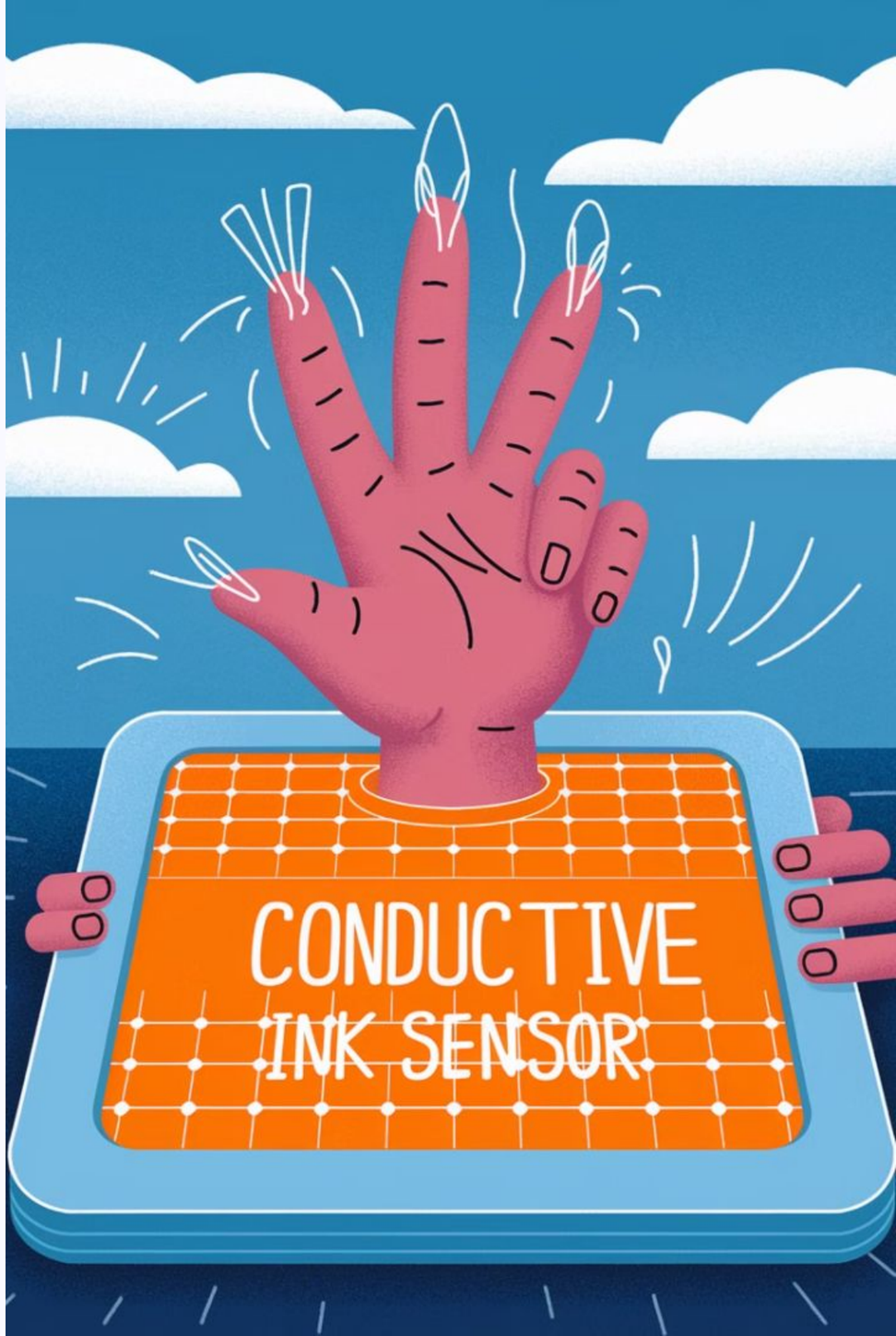
Slides

Continuous motion for parameter control.

3

Proximity

Detecting hand distance for effects.



Concept Development

1

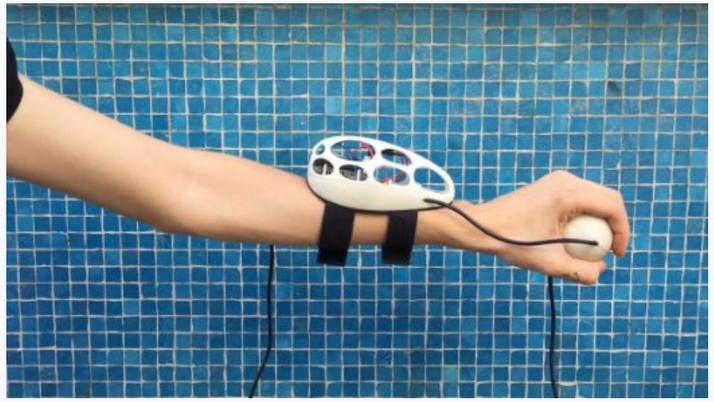
Brainstorming

Generate as many ideas as possible.

2

Sketching

Visualize your ideas on paper.

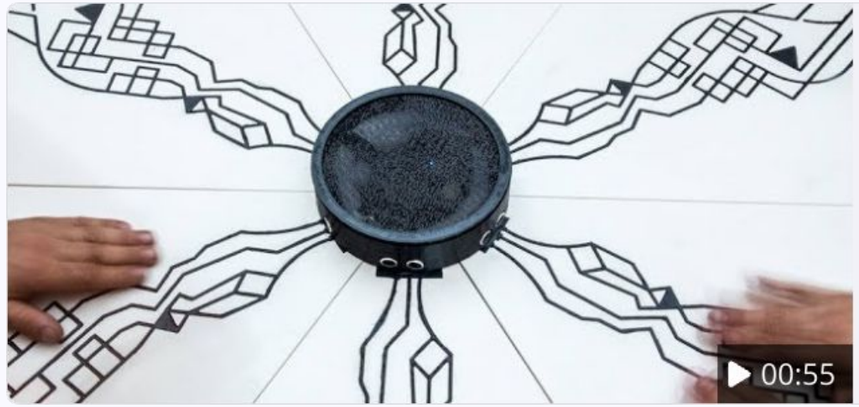


LABO

YouTube

Electric Paint Lamp Kit

Find out more about the Electric Paint Lamp Kit here: https://www.bareconductive.com/collections/electric-paint-lamp-kit Transform any...



YouTube

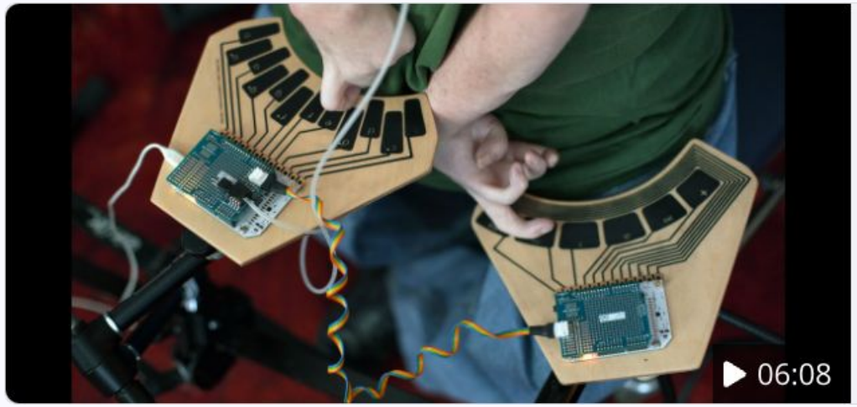
Build Your Own Interactive Sound Table with Electric Pai...

Find out more about Electric Paint here:
https://www.bareconductive.com/collections/electric-paint TACTO is an interactive...

YouTube

Interactive media wall (touch sensor, conductive ink, projection map...

[PLAYDODO] Music Playing Wall : Projection Mapping, Conductive Ink, Interacitve Art Music Playing Wall, a fun Interactive touch wall painted with instruments recognize...



YouTube

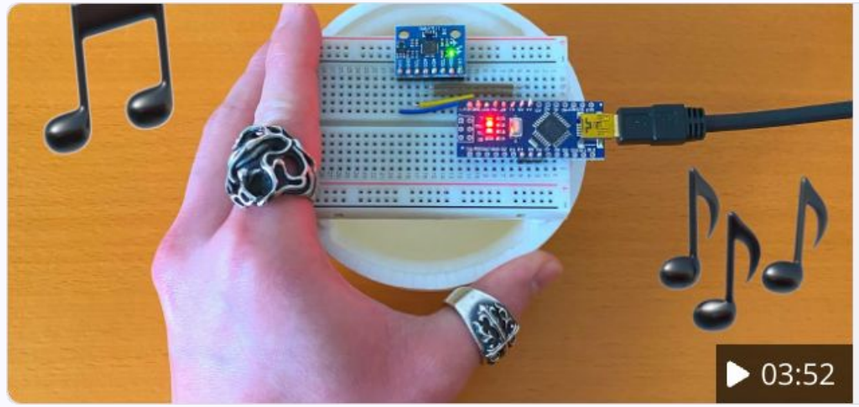
Touch Chord - A Touch Sensitive Breath Controlled Instrument

Read the full story: http://bit.ly/1Gg7gQ7 Designer Musician Vahakn Matossian from Human Instruments teams up with Bare Conductive to develop a new musical...

YouTube

I Built a MIDI THEREMIN! Theremidi - A DIY Arduino MIDI Controller

➡️ Download the files: https://go.musiconerd.com/files-download ➡️ Making Music with Arduino: https://go.musiconerd.com/nerd-musician-pro/ ➡️ Curso Fazendo...



YouTube

Accelerometer Music Controller (Arduino Tutorial)

Let's use accelerometer to control sounds in Pure Data or Max/MSP!! --- To Buy - Arduino Nano https://www.amazon.com/ELEGOO-Arduino-ATmega328P-Without-...