Hack the Mic: loT with Kinoma

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The Internet of Things (IoT)

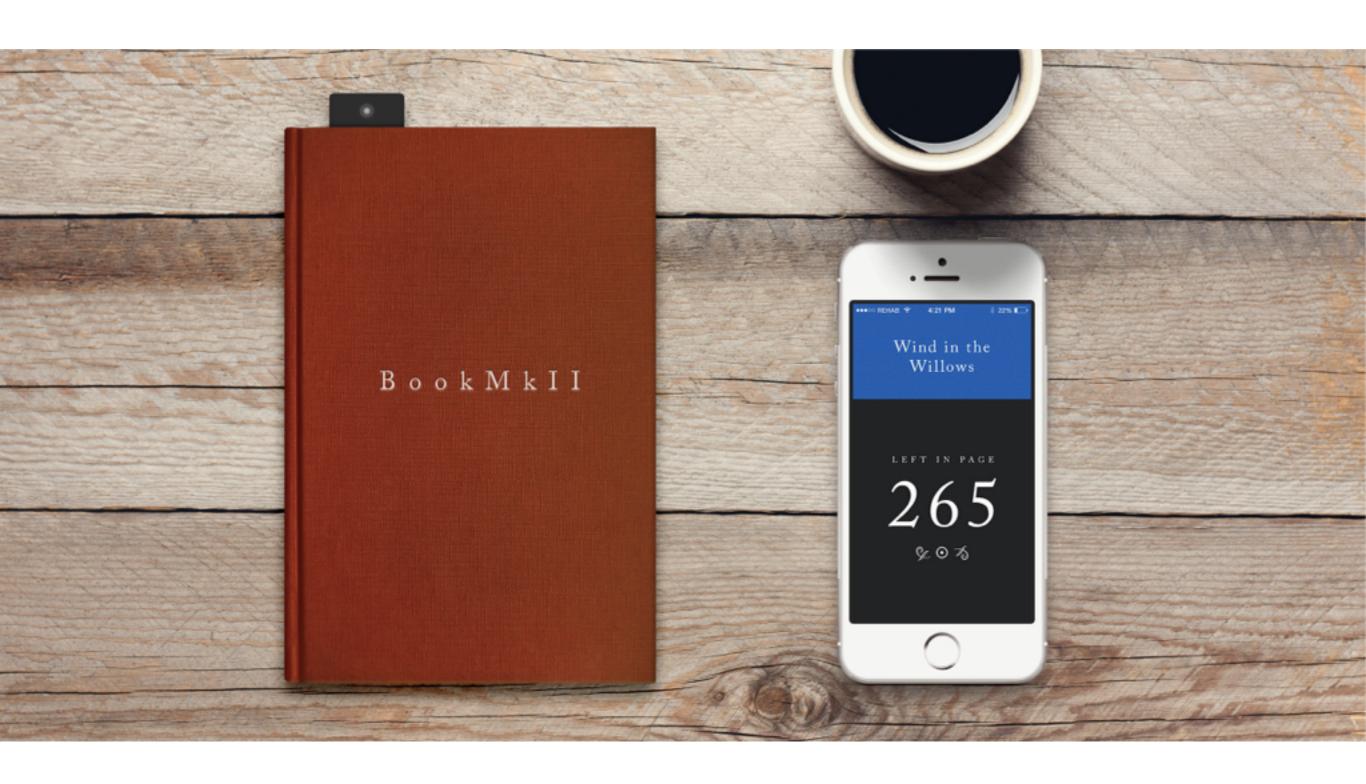


Most Recent Customer Reviews



I used to walk around asking myself, "How many eggs are in the fridge?" I no longer have to worry, it is always at my fingertips.

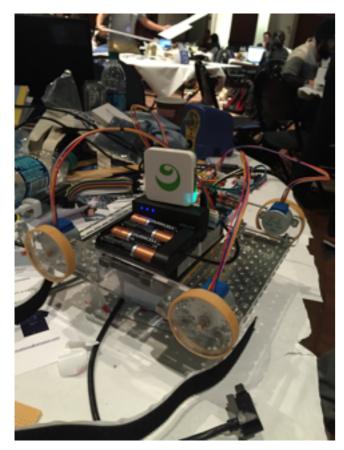
Published 4 days ago by JR

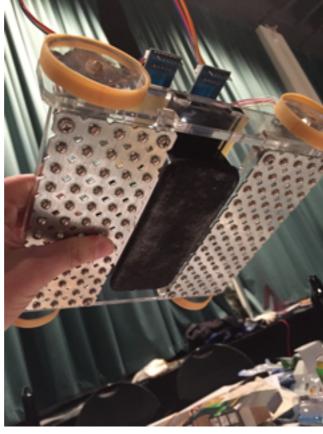


"Never lose your page again"

MakeMIT









Making without a cause



The Maker Movement

- DIY meets tech
- Computers, robotics, 3-D printing, metalworking, woodworking, etc.

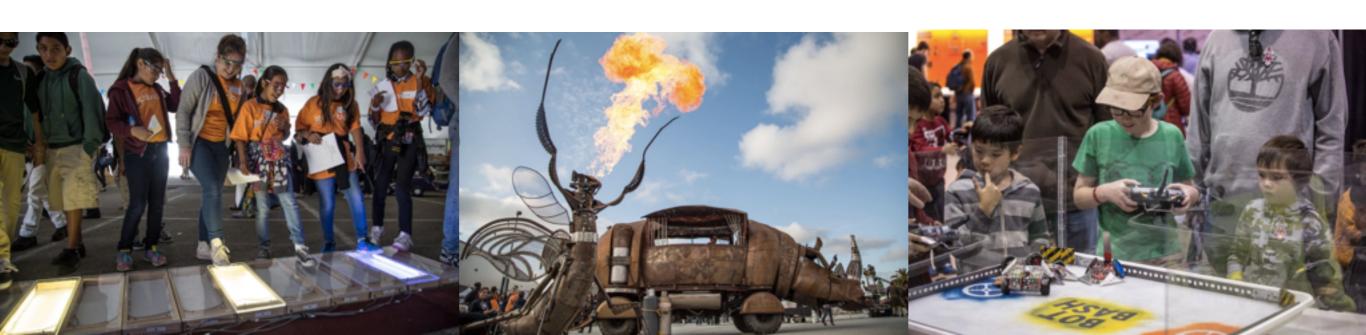
Maker media



Make: Make Magazine



Maker Faires



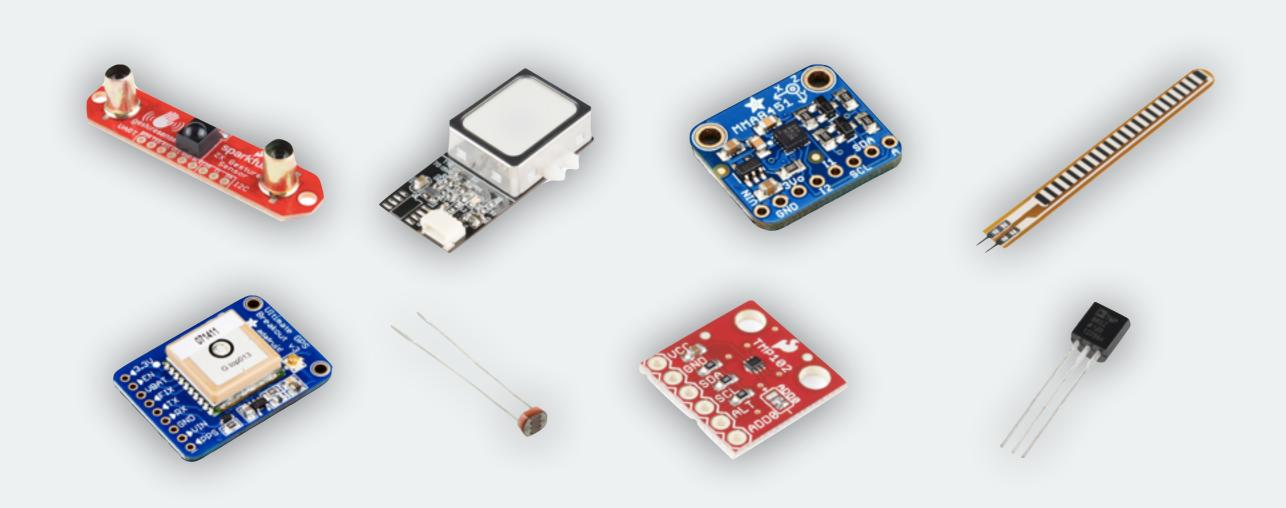
Noisebridge Hackerspace

- Beginner friendly events with many materials provided
- www.meetup.com/noisebridge

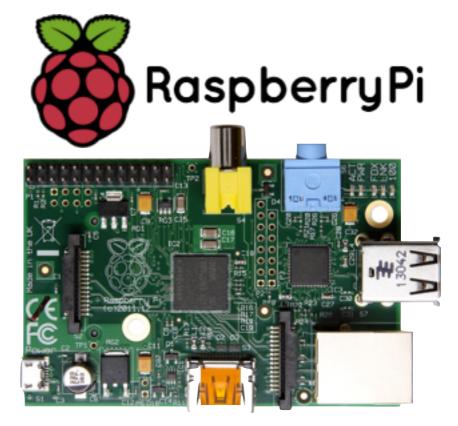














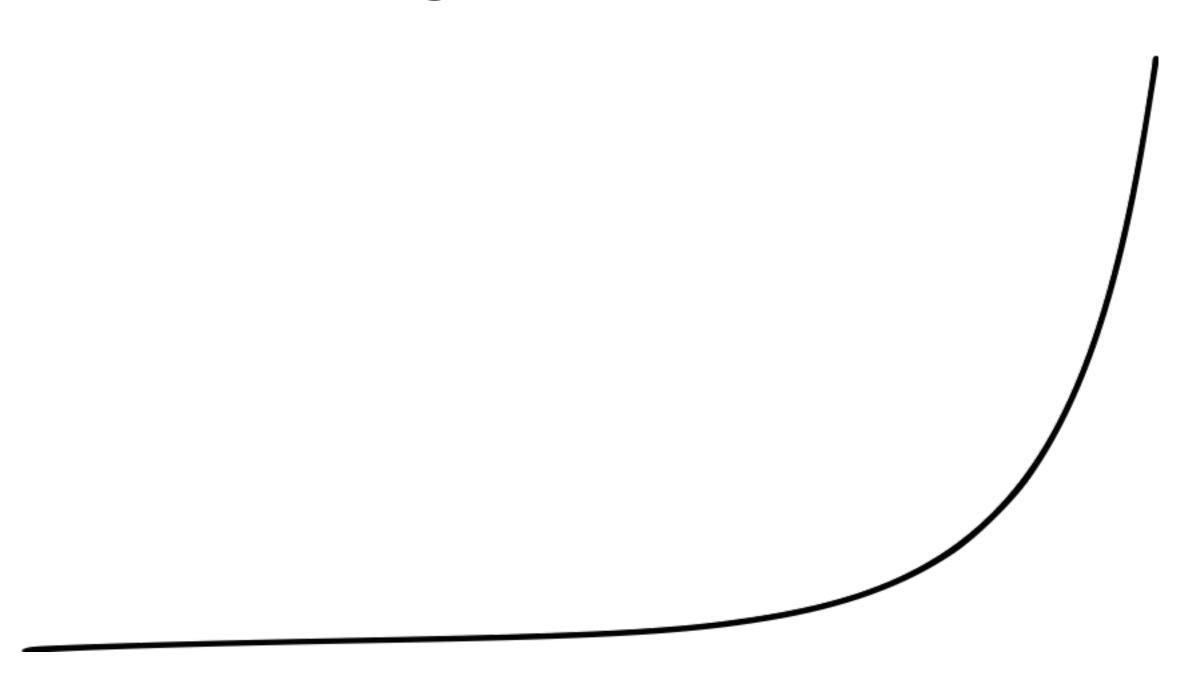








Getting started is hard



Kinoma

Kinoma Element and Kinoma Create



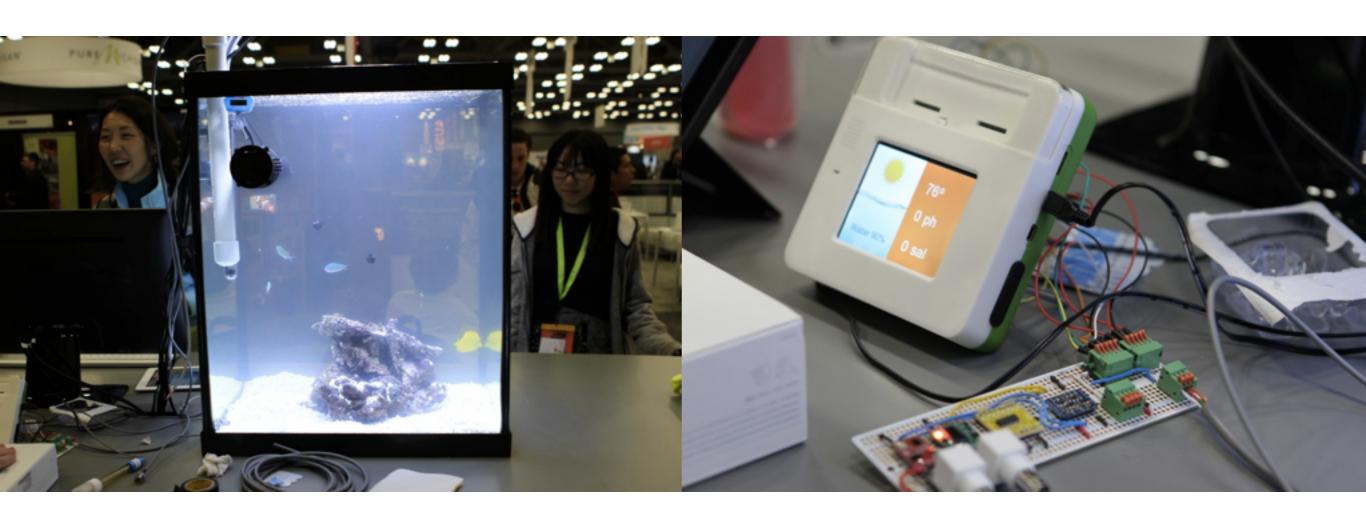
Not your average prototyping boards





Aquarium monitor





Hang gliding helper

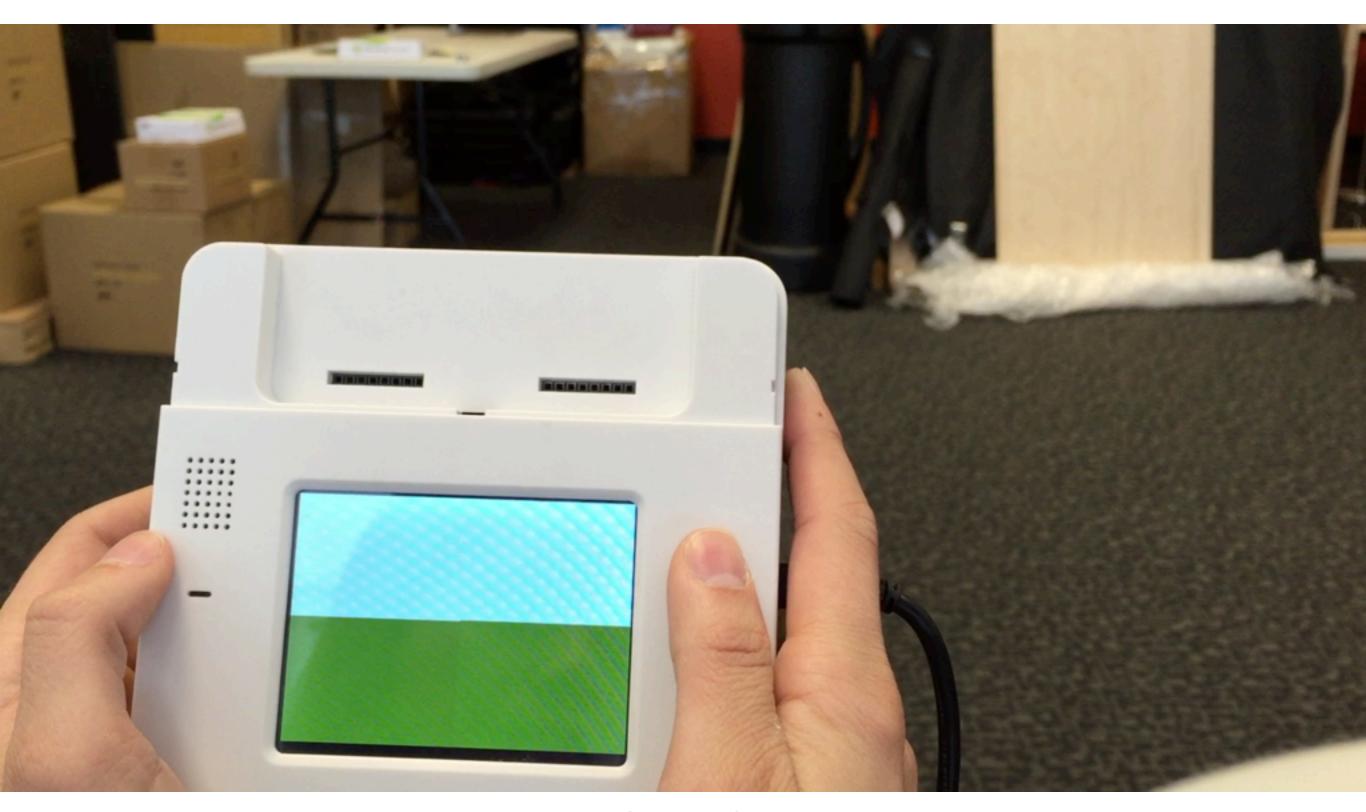




Plant monitor







(video)



Tri-color LED

A note to new makers

- Never view projects at face value
- Prototyping kits let you decide what to make with them

The Kinoma platform

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- Prototyping devices
- Our own programming language
- Tools for developers to program them











JavaScript has proven to be accessible to designers, students, and engineers

```
var redSkin = new Skin({ fill: 'red',});
var blueSkin = new Skin({ fill: 'blue',});
var labelStyle = new Style({ color: 'white', font: 'bold 36px', horizontal: 'center', vertical: 'middle', });
var MainContainer = Container.template($ => ({
    left: 0, right: 0, top: 0, bottom: 0,
    active: true, skin: blueSkin,
    contents: [
        Label($, { left: 0, right: 0, top: 0, bottom: 0, style: labelStyle, string: $.text })
    behavior: Behavior({
        onTouchBegan: function(container, id, x, y, ticks) {
            container.skin = redSkin;
        },
        onTouchEnded: function(container, id, x, y, ticks) {
            container.skin = blueSkin;
    })
}));
application.add( new MainContainer({ text: "Hello, KPR" }));
```

4 hardware trends to watch in 2016

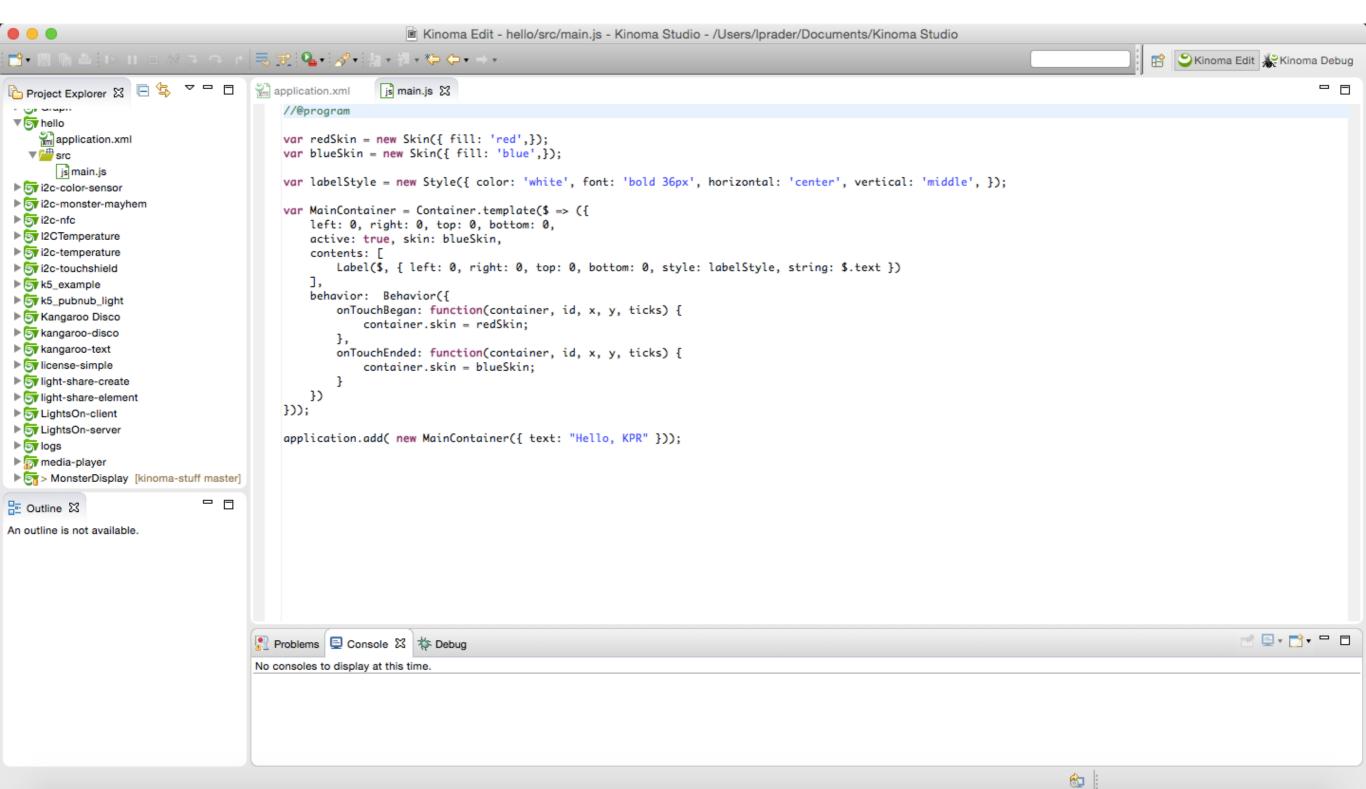
Early signals of what's to come in the hardware world.



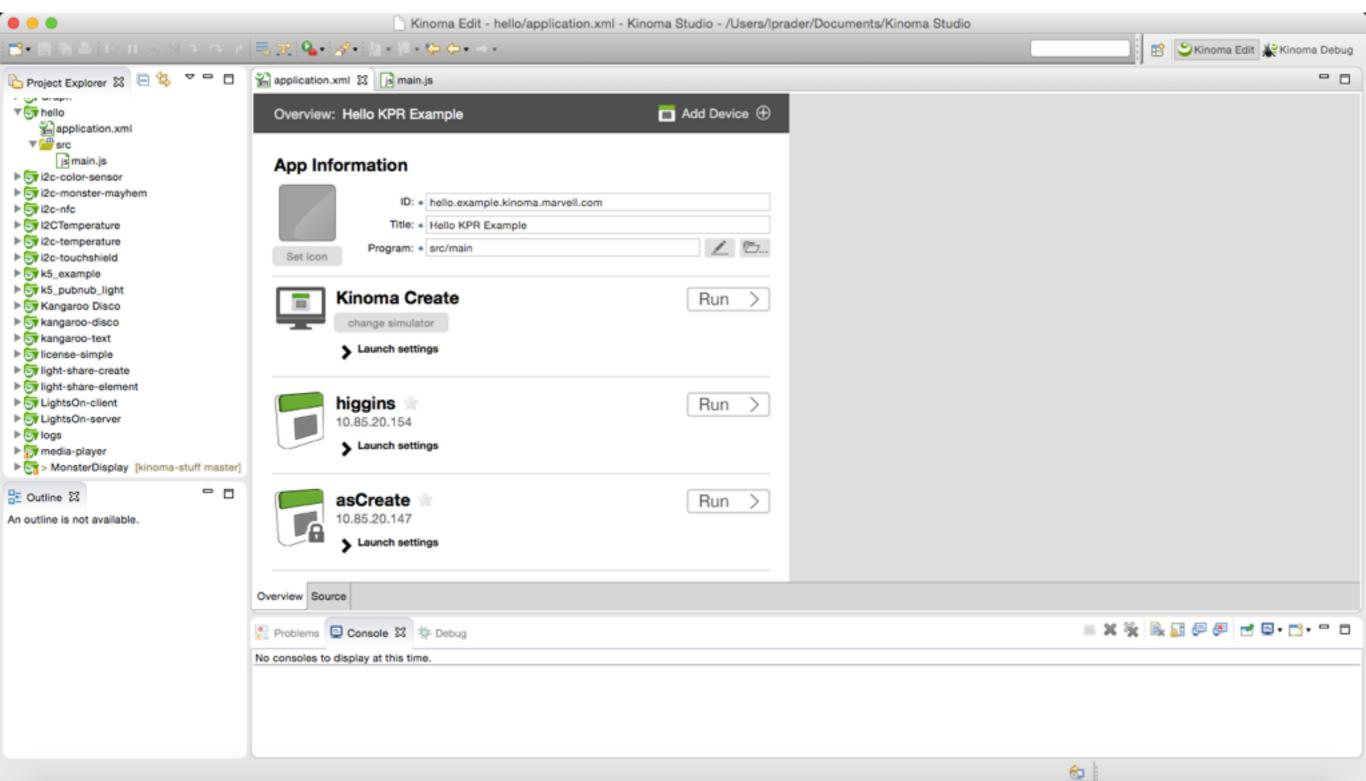
High level programming languages on embedded systems

Relatedly, writing software to control drones, vending machines, and dishwashers has become as easy as spinning up a website. Fast, efficient processors . . . are turning JavaScript into a popular embedded programming language—unthinkable less than a decade ago.

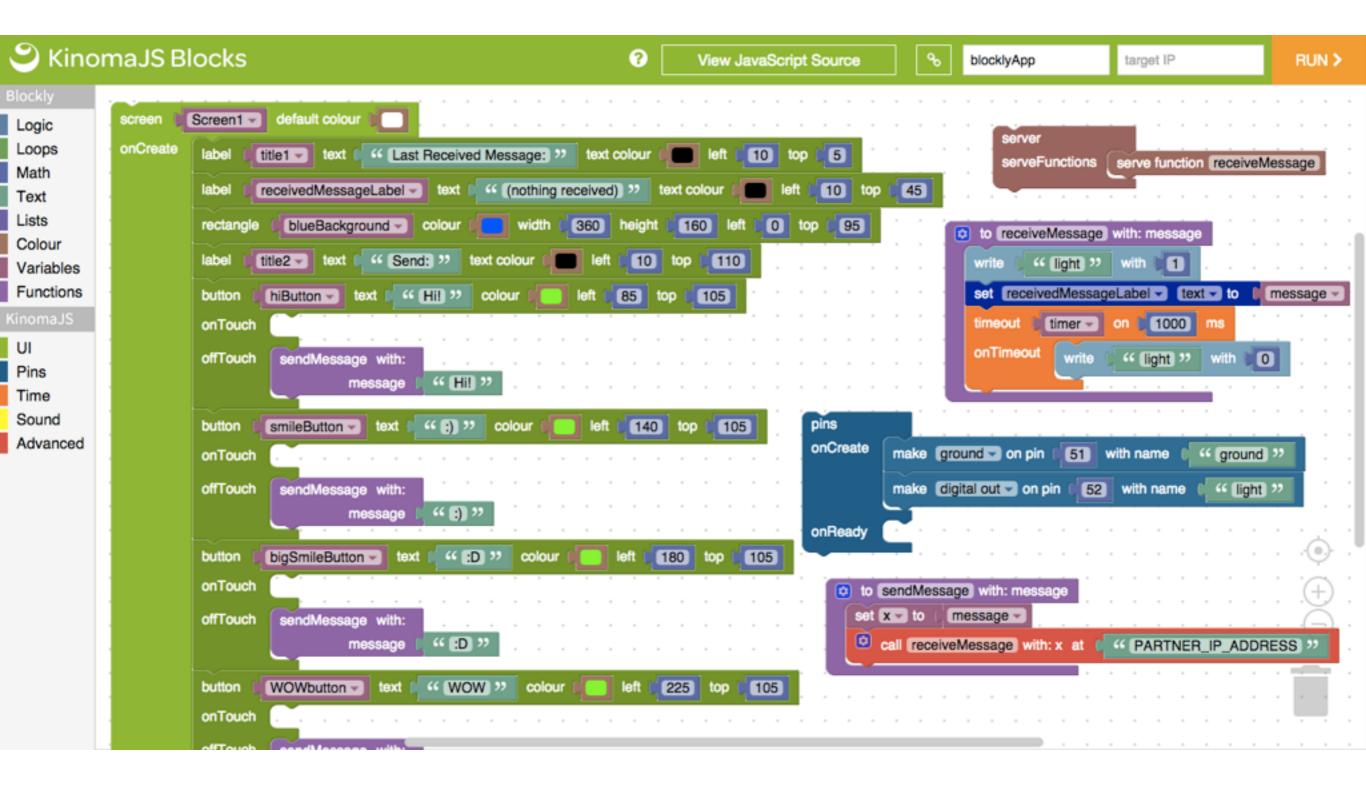
Kinoma Studio

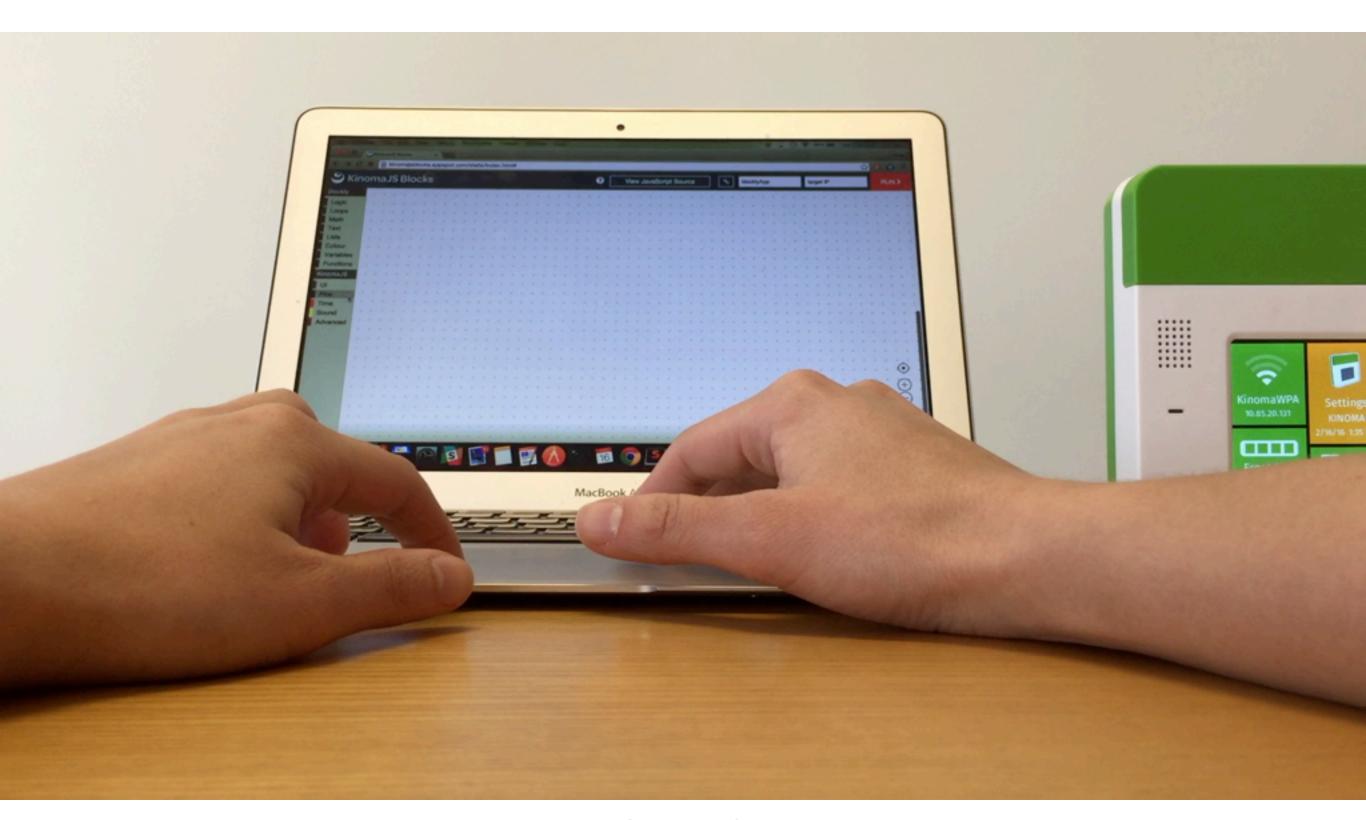


Kinoma Studio



KinomaJS Blocks





(video)

KinomaJS Blocks

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- As easy as it gets
- No downloading
- No wires



Everyone can be a maker



Thank you!













Questions?











