Robobloq
Ideas worth making

Robobloq Software

Robobloq Co., Ltd.

Robobloq
Ideas worth making

Coding: Integrated Skills

STEAM Education is an integrated educational methology that integrates Science, Technology, Engineering, Art and Mathematics. Learning coding is a way of improving cross-subject abilities for kids.

The Unstoppable Trend

Robobloq
Ideas worth making

USA

Former president Obama issued a budget of 4 billion dollars to provide complete and quality computer science education for schools from kindergarten to high school, as means to boost economy and narrow gap of wealth.

UK

Former British Prime Minister David Cameron announced the reform of the national primary and secondary school syllabus and requested to start using it in 2014. The syllabus provides for the inclusion of “computational science” as a compulsory course. The UK education system currently ensures 100% coverage for children programming.

Japan

In June 2017, the Japan Ministry of Education advocate the teaching of STEAM concept in primary and secondary schools (the goal is targeted at children's programming). At the same time, the Ministry of Education will propose a programming course from elementary school in the newly revised "Learning Guidance Essentials" in 2020.

China

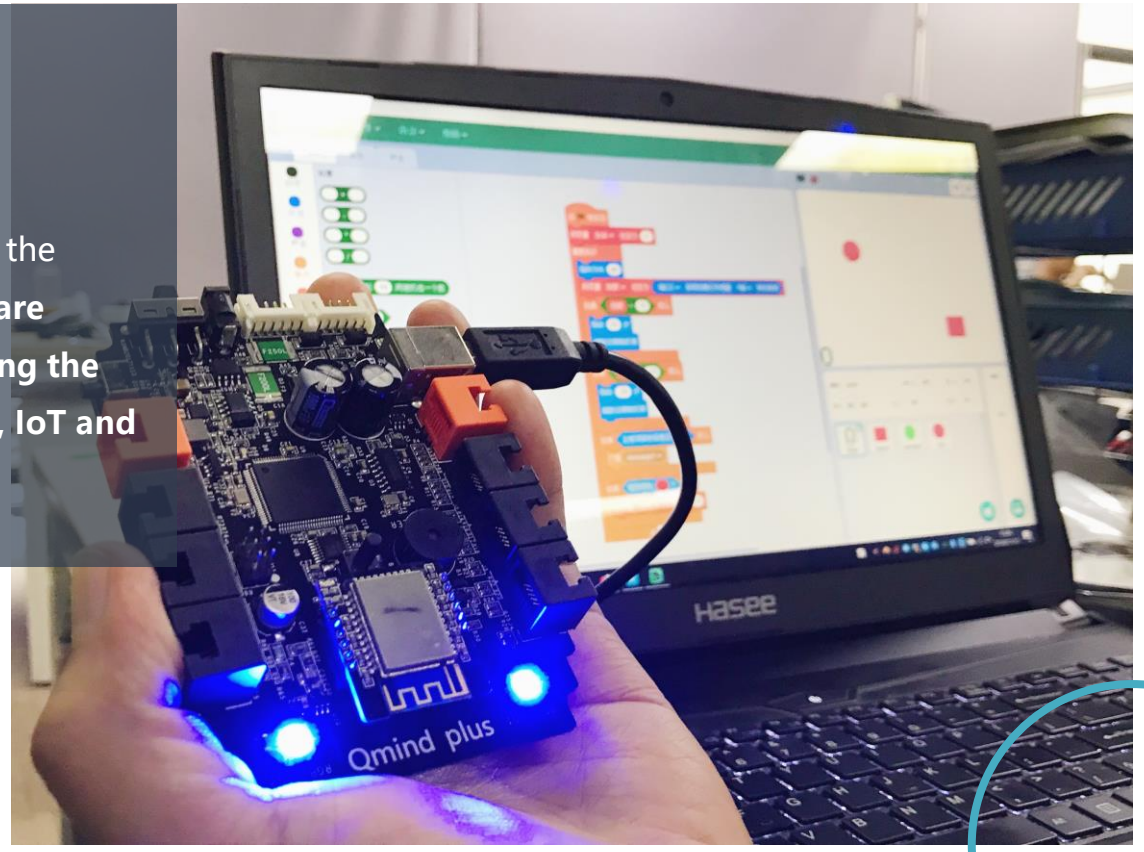
In 2017, the State Council issued the "New Generation Artificial Intelligence Development Plan", emphasizing the implementation of the National Intelligence Education Project, setting up artificial intelligence related topics in the primary and secondary schools, and gradually promoting programming education.

Robobloq

Ideas worth making

Robobloq Apps

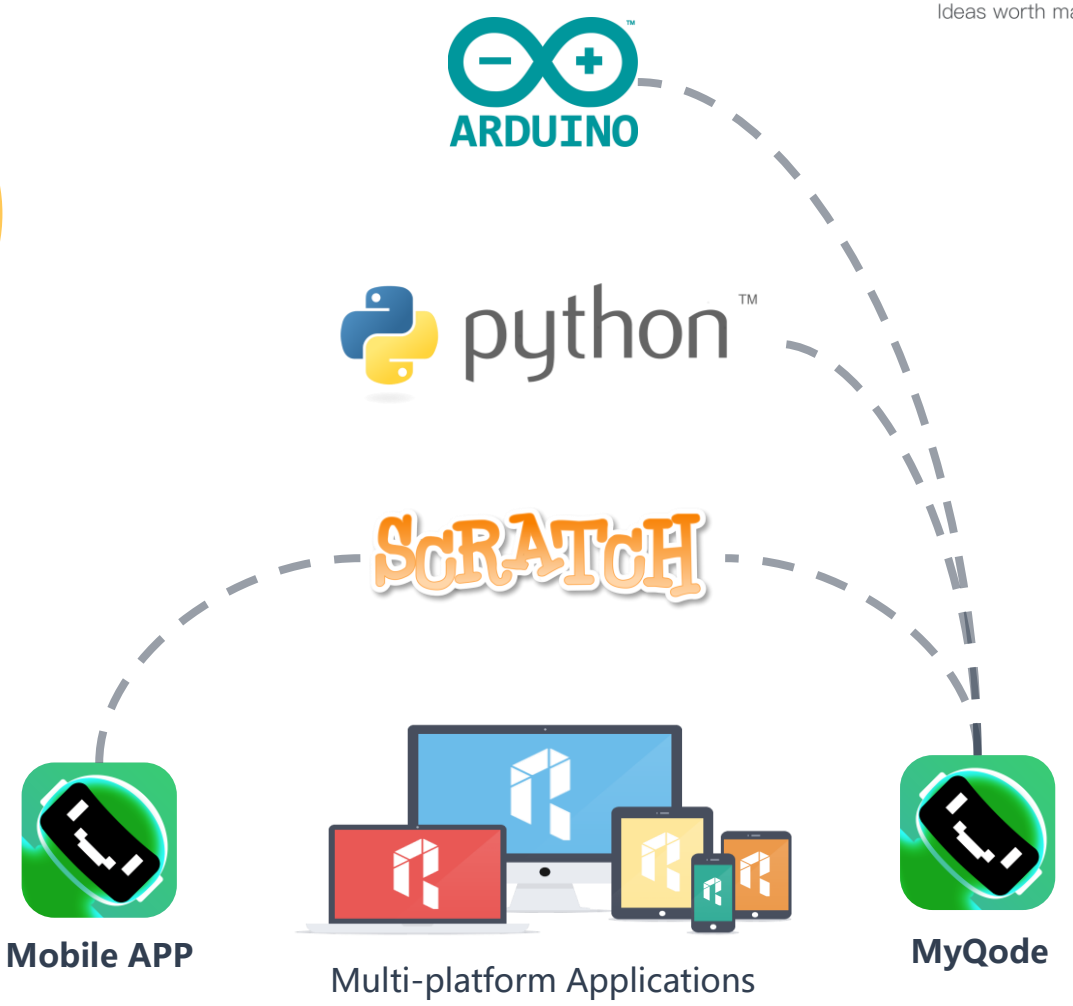
The ever-surprising Robobloq robotics building platform is backed by the magic of software behind. **Robobloq’s solution of hardware-software integration has delivered true robotics experience while maintaining the freedom to code. Learn as you play, and get familiar with robotics, IoT and AI.**



Robobloq
Ideas worth making

Facing Mainstream Demands

Robobloq' s software ecosystem consists of MyQode and a mobile app, covering the most trending coding languages and hardware platforms. **It is an all-way learning platform for entry and professional levels.**



Robobloq
Ideas worth making

MyQode

All in one coding platform for 6-17 year olds

Not just coding skills, MyQode enables tremendous possibilities. It comes with simplicity and innovation – an easy-to-use graphical coding that connects robotics, IoT and AI, bringing the values of Robobloq’s robotics building platform to a whole new level.

Covering All Ages

Roboblog
Ideas worth making

MyQode supports Scratch, Python and C (for Arduino), covering learning needs from primary school to high school.

ARDUINO
Robotics, IoT, AI

python™
Hardware control, Basic algorithms

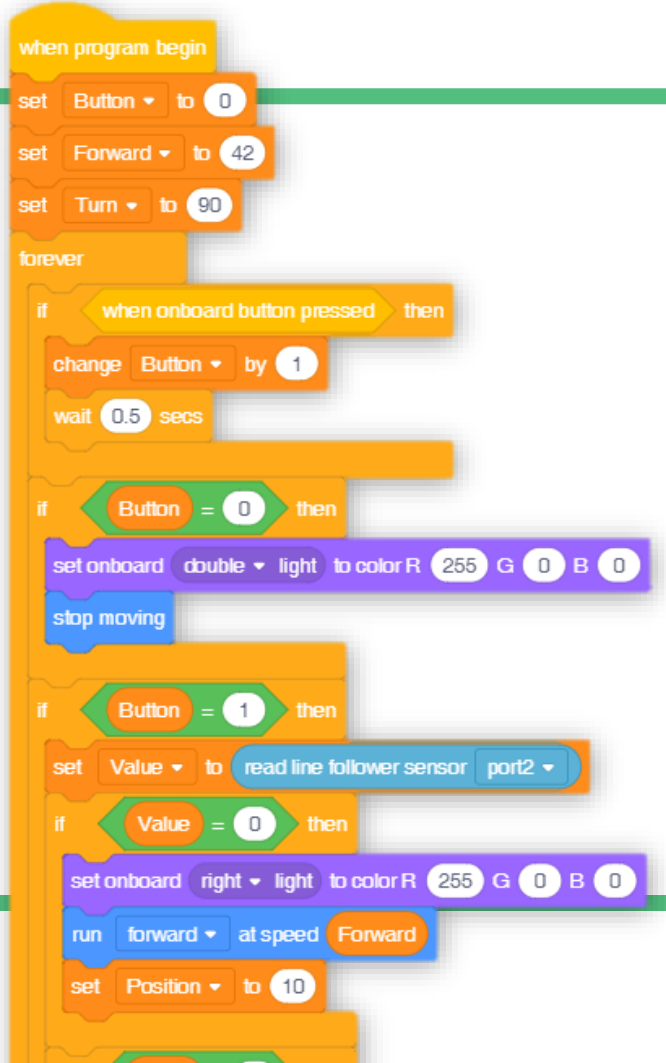
SCRATCH
Logical thinking, Analytic skills

SCRATCH jr
Logical thinking

Preschool 5-6 yrs.	Primary school 6-12 yrs.	Junior High 12-15 yrs.	High School 15-17 yrs.

Scratch 3.0 Block Coding

Robobloq
Ideas worth making



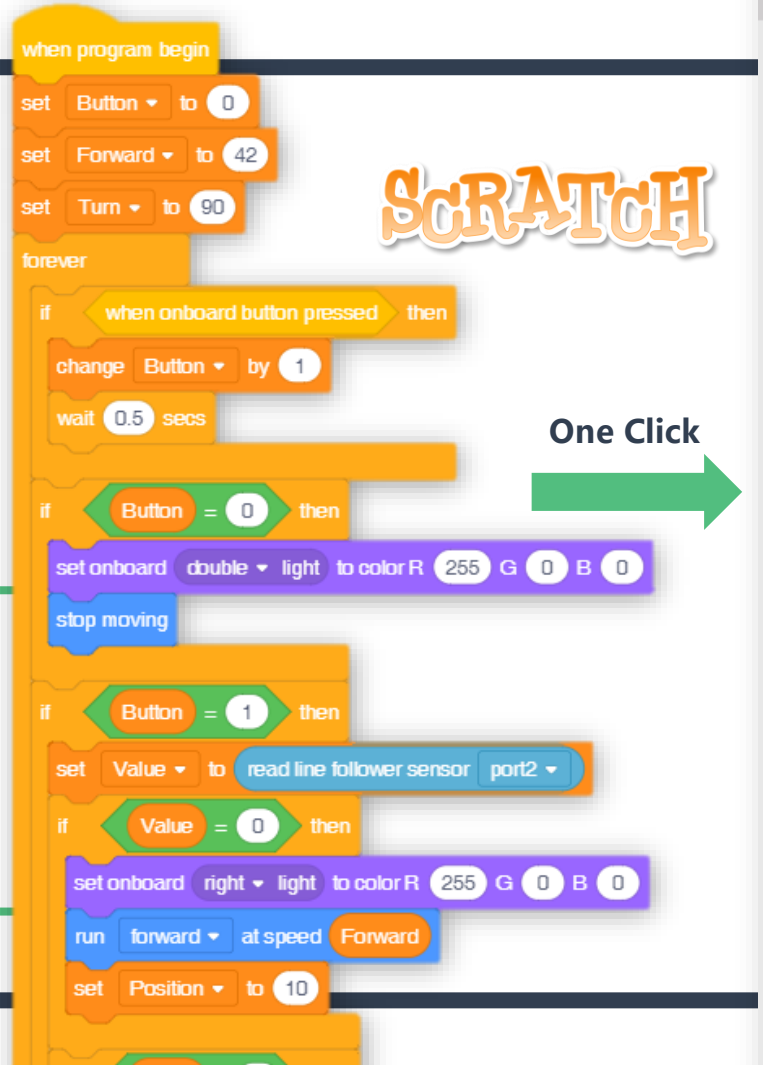
Code with drag-and-drop command blocks. MyQode’s integrated Scratch 3.0 environment is designed for beginners. By controlling Robobloq’s robotics hardware, codes can be run in real life. **By coding with Scratch 3.0, students can improve their logical thinking and learn basic algorithms.**

Switching to Python

Roboblog
Ideas worth making

In MyQode, you can switch between Scratch and Python. The introduction of Python makes it easier to learn this widely used language, and **moving from Scratch helps bring down the learning curve.**

By learning Python, students can practice trending fields such as data analytics and AI.



SCRATCH

One Click

python™

Arduino

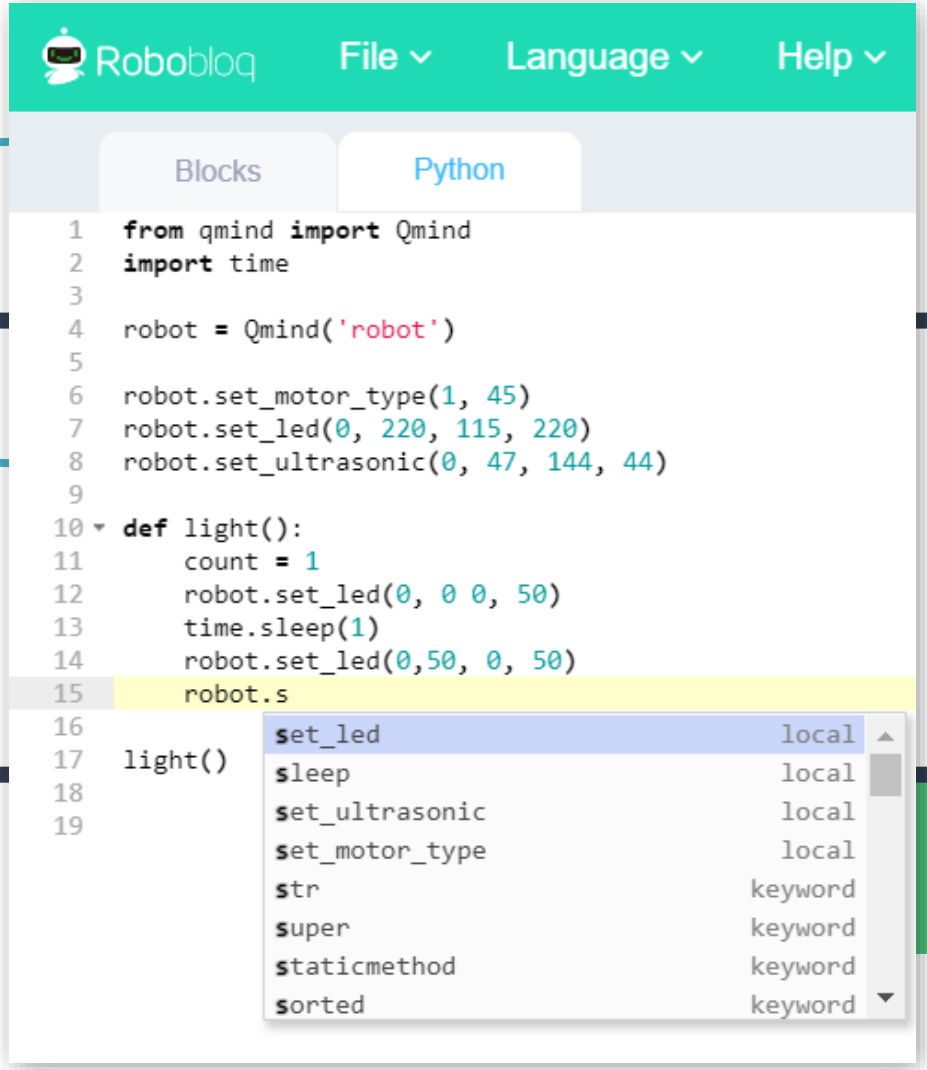
```
#include "RB_QMIND.h"
double _E5_AE_9A_E4_BD_8D;

double _E8_AF_BB_E5_80_BC;

double _E5_90_91_E5_89_8D;

double _E8_BD_AC_E5_BC_AF;

double _E6_8C_89_E9_94_AE;

RB_RGBLed RGBLED(2,2);
RB_DcmotorOnBoard RB_DcmotorOnBoard;

RB_LineFollower LineFollower_2(2);

void setup() {
    Serial.begin(115200);

    RB_DcmotorOnBoard.RB_DcmotorOnBoard_Init();
    delay(500);

    _E6_8C_89_E9_94_AE = 0;
    _E5_90_91_E5_89_8D = 42;
    _E8_BD_AC_E5_BC_AF = 90;

}

void loop() {
    if (digitalRead(USER_KEY_Pin)==LOW) {
        _E6_8C_89_E9_94_AE += 1;
        delay(int(0.5 * 1000));

    }
    if ((_E6_8C_89_E9_94_AE) == 0) {
        RGBLED.setColor(0, 255, 0, 0);
        RGBLED.show();
        RB_DcmotorOnBoard.run(0,0);

```

Coding with Python

Robobloq
Ideas worth making

This exclusive feature on MyQode allows you to program Robobloq robots with Python.

In a standalone tap, you can access Robobloq' s API with Python. The customized programming environment can help you speed up by showing quick hints.

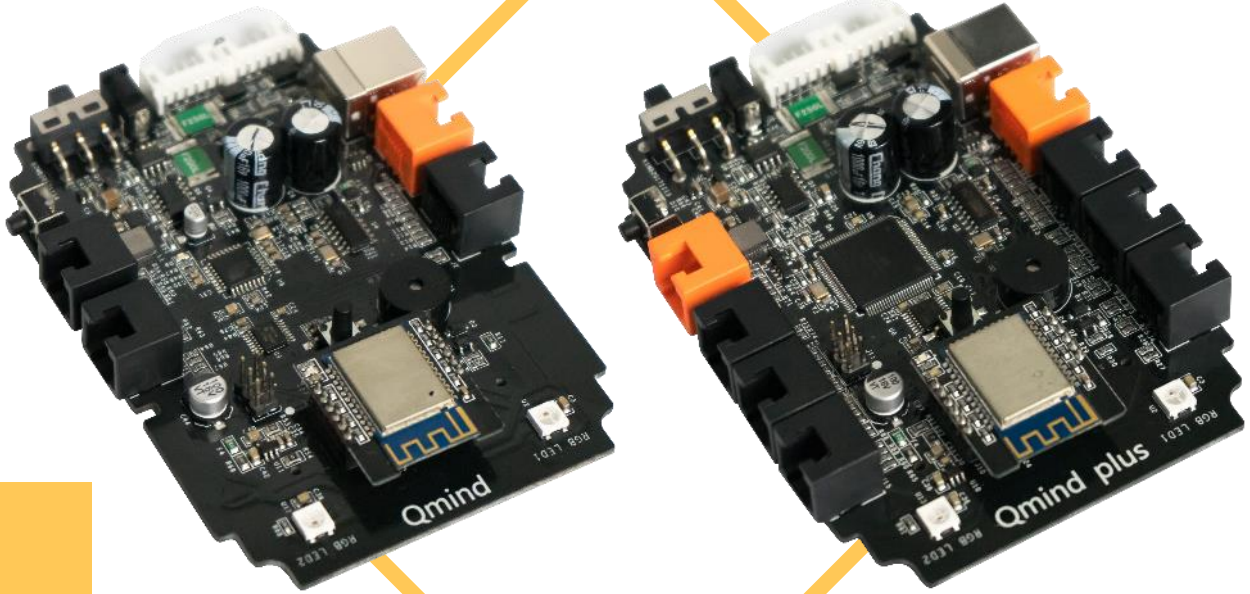


Robobloq
Ideas worth making

Arduino: Doorway to the Future

Arduino is the most popular hardware developing platform worldwide. **Its rich extendibility makes it suitable for promising fields such as robotics and IoT.**

Arduino is the core to Robobloq’s robots. **With Robobloq’s long list of sensors and electronic modules, you can engage in the hottest hardware projects.**



AI Cognitive Abilities

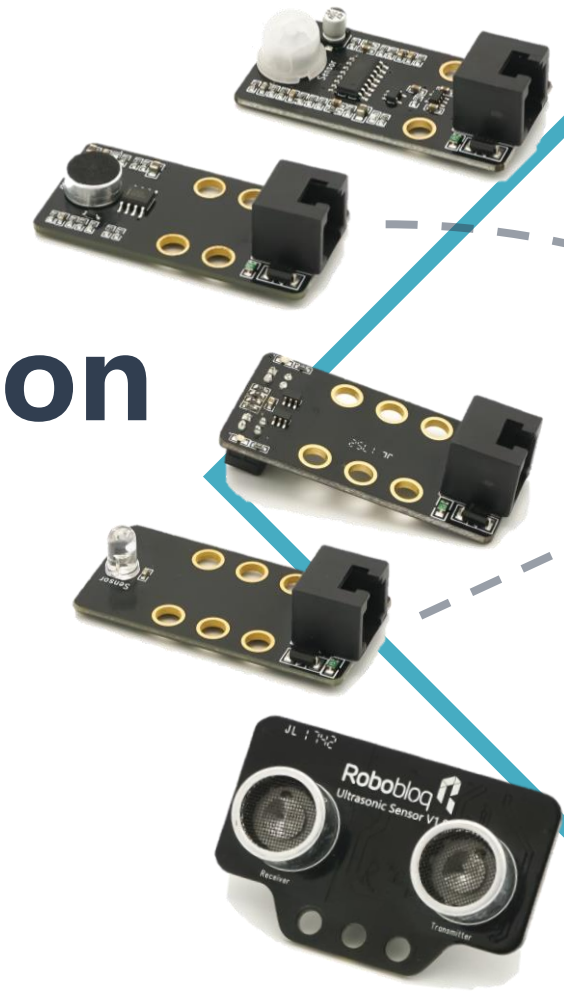
Roboblog
Ideas worth making

MyQode is integrated with various AI abilities and can be easily accessed anytime.

Robobloq
Ideas worth making

Auto Detection

An exclusive feature for MyQode to be able to recognize any electronic modules inserted into mainboard.



MyQode

Status

Color sensor inserted to port 2

Color sensor pulled out of port 2

MP3 module pulled out of port 5

Port list

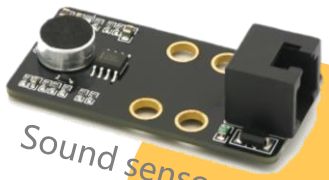
Port	Type
1	无
2	Color sensor
3	无
4	无
5	MP3 module
6	无
7	无
8	无

Internet of Things

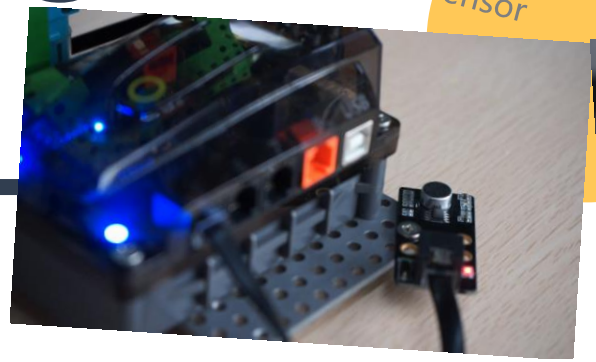
Coding experience across hardware and software

Robobloq
Ideas worth making

With a Bluetooth dongle you can get rid of the trouble with cables and send commands to Robobloq robots wirelessly. When combined with sensors, you can develop IoT projects or create fun games!

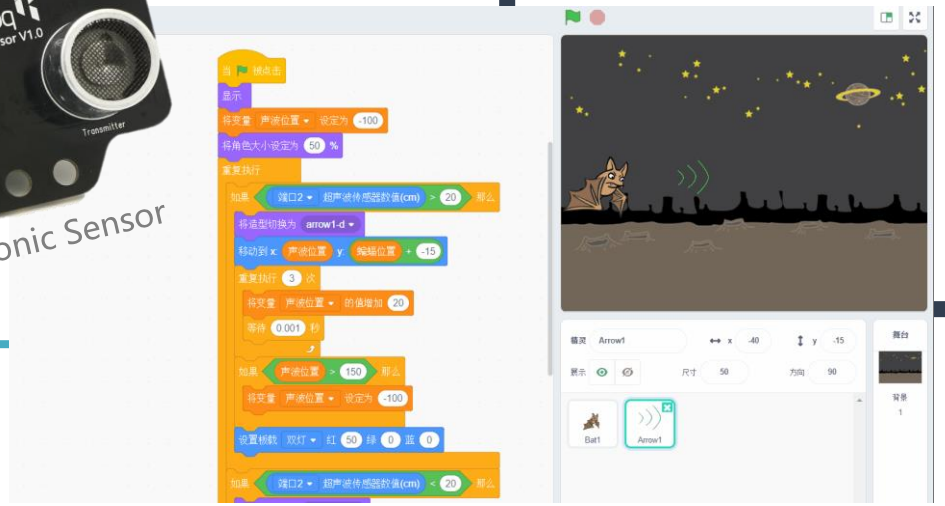


Sound sensor

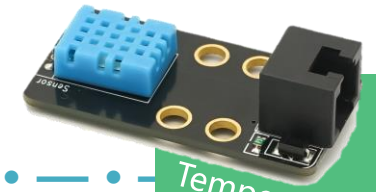


Case 2: a robot that claps back to your claps.

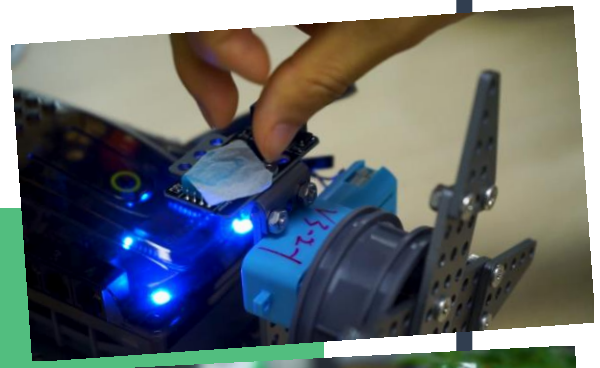
Ultrasonic Sensor



Case 1: help the bat find food using a physical ultrasonic sensor.



Temperature & Humidity Sensor



Case 3: a fan that spins when it gets humid.

Robobloq
Ideas worth making

Robobloq Mobile App

Coding on the go

Robobloq mobile app is where you enjoy all the robotic fun! Multiple programming modes make the best of the sensors and electronic modules; With integrated Scratch 3.0 coding environment you can program robots on the phone! Enjoy the coolest robotics experience from now on!

Robobloq
Ideas worth making

Building Instructions

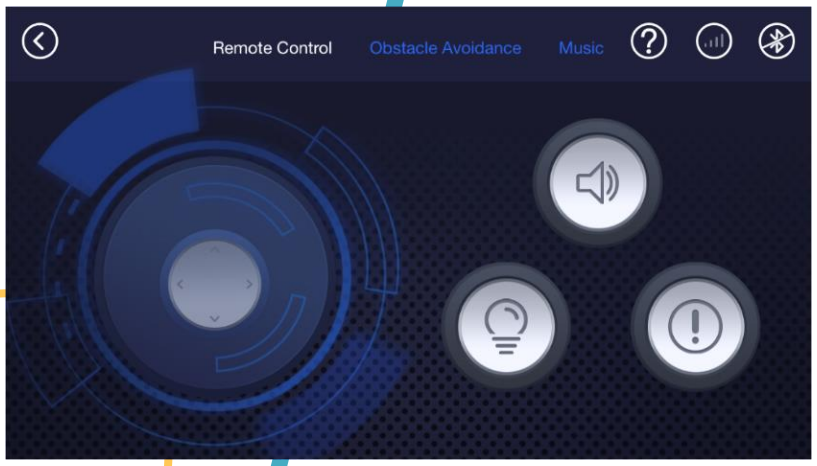
Paperless and environmental friendly, access on the go.

Robobloq
Ideas worth making

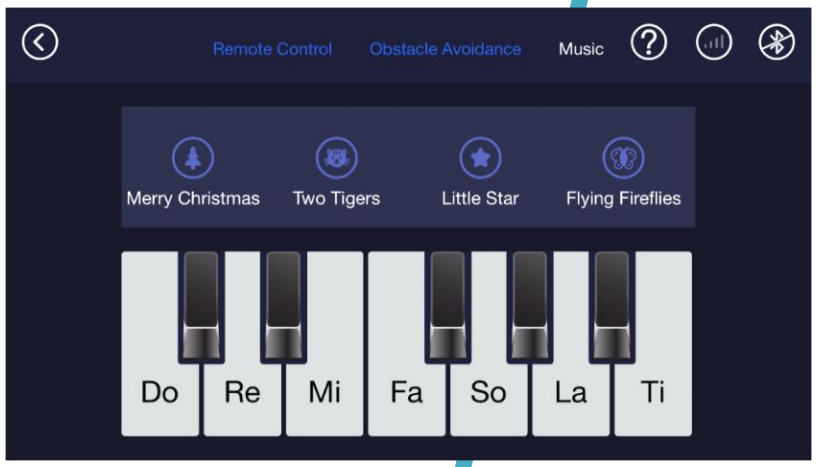
Multiple Modes

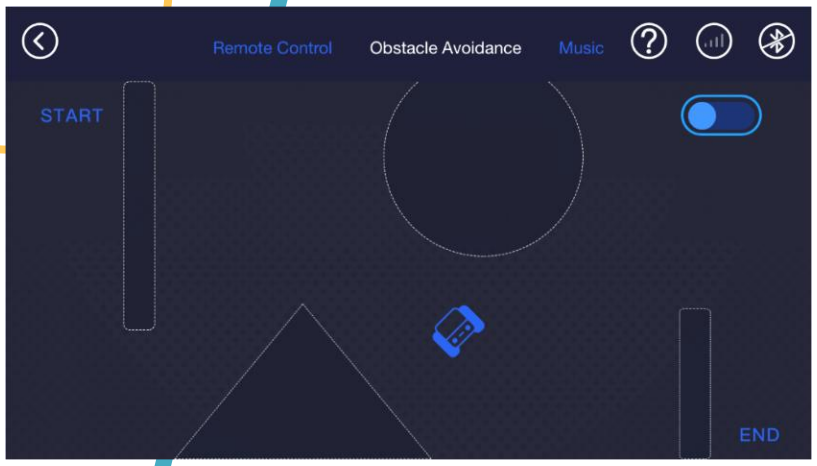
Moving, music, emotions and obstacle avoiding...these modes utilize and demonstrate sensors and electronic modules. Fun on the fingertips!

Remote control mode

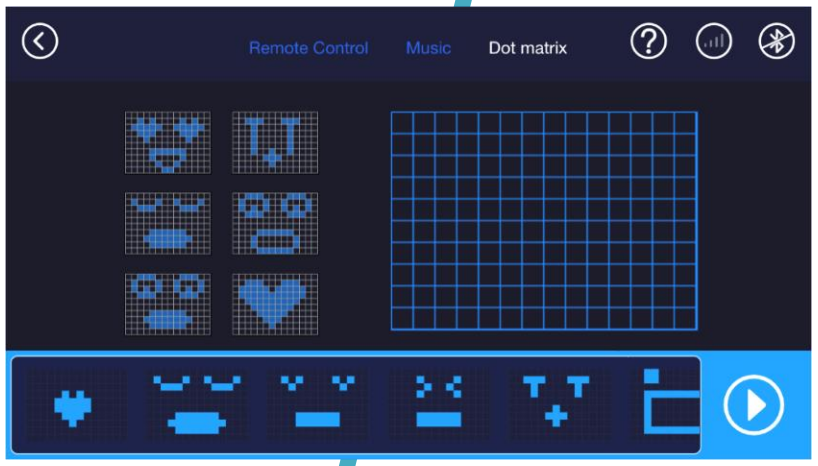


Music mode





Obstacle avoiding mode



Emotion mode

Robobloq

Ideas worth making

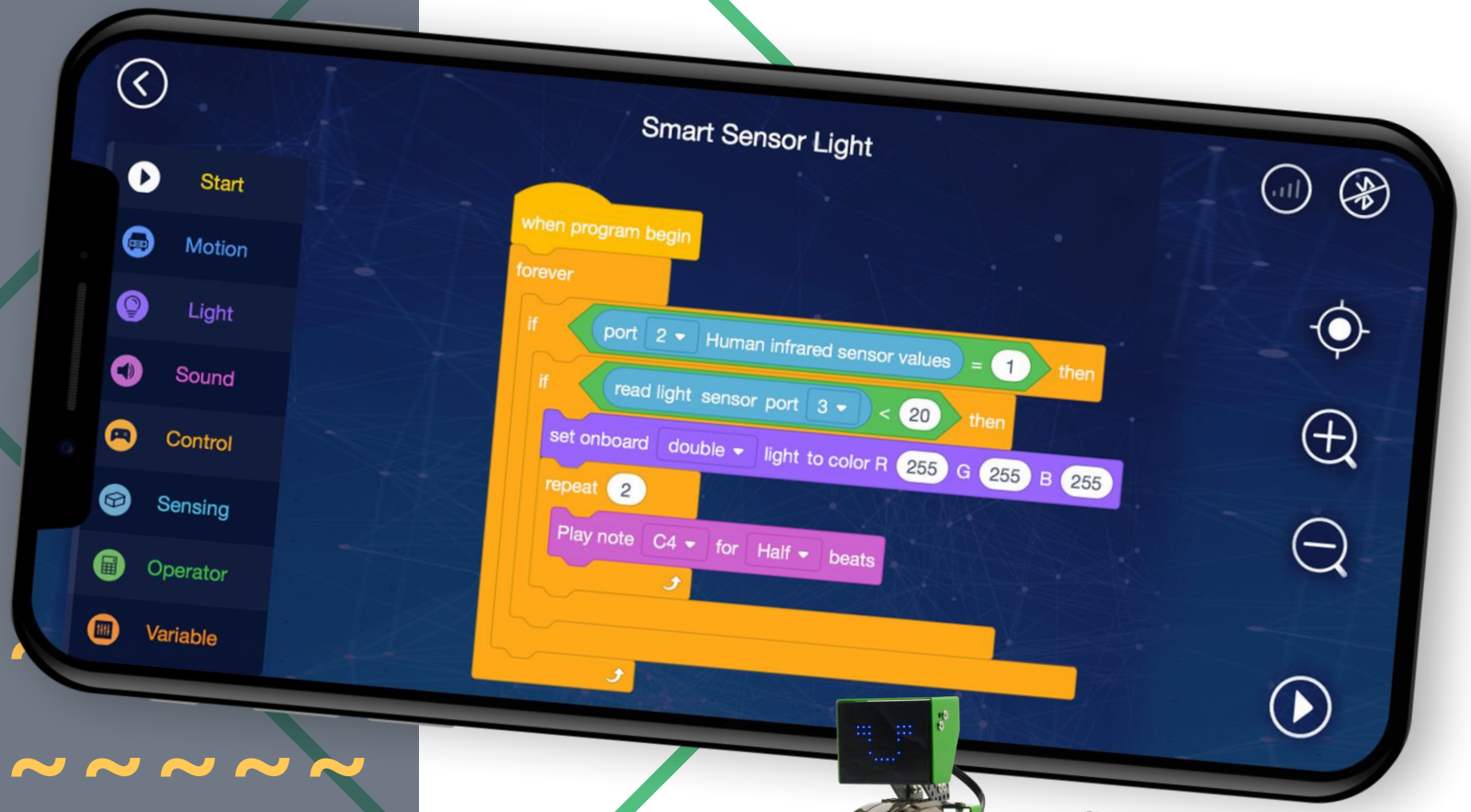
Scratch Jr

Stepping up simplicity, and bringing down the age for coding, Scratch Jr is the answer, which makes coding possible to kids of 4 to 6.

Robobloq
Ideas worth making

Scratch 3.0 Coding

The block coding environment helps you learn the essentials of coding in an easy way. By controlling sensors accurately, you can go creative and make your own robot!



Robobloq

Ideas worth making

Coding on the Go

Use Robobloq mobile app, connect via Bluetooth, you can code anywhere anytime, even outdoor!