

UBTalk-S4

UNIT EXPLORE





A very exciting video first...









优 必 选 UBTECH



Teaching Tools



Innovate



Yanshee

Raspberry Pi

Research Institute

University/ College

Senior High School

Junior High School

Elementary School Upper Grades

Elementary School Lower Grades



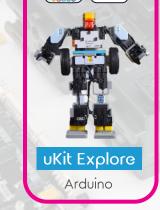




Jimu Robot







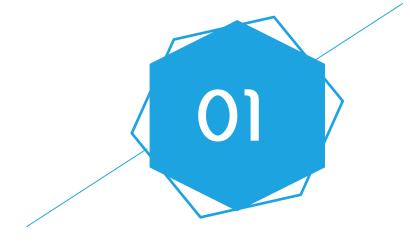
Block building Design-Record-Play (DRP)

uKit Entry

Graphics Programming: Blockly

Learning Companion Al/Science Knowledge

Open Source HW Text programming: Python/C/C++



Hardware

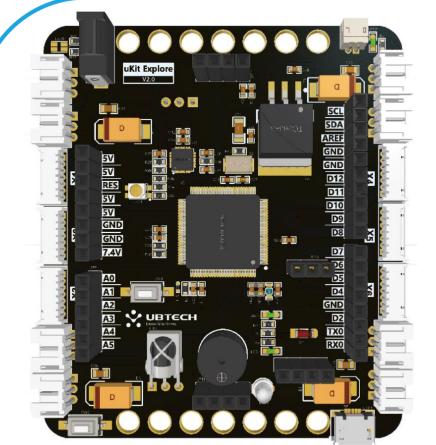
uKit Explore





1.1 Explore Mainboard

- 3-pin uKit interface
- 7-pin Digital/I²C
- 7-pin Grey/Digital
- 7-pin Analog/Serial port
- GPIO
- Micro-USB
- Bluetooth

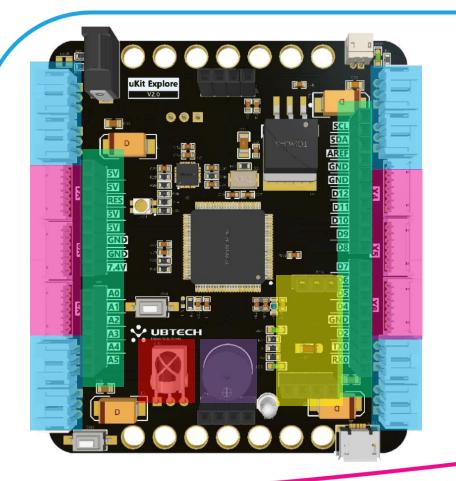


uKit interface Digital/I2C Digital/12C Gray/Digital ICSP Analog interface Analog/Serial port Charging port Power supply Self-defined button **USB** port uKit fixing holes Power supply Reset button



1.1 Explore Mainboard

- 3-pin uKit interface
- 7-pin interface
- GPIO interface
- Bluetooth module interface
- IR wave receiver
- Buzzer







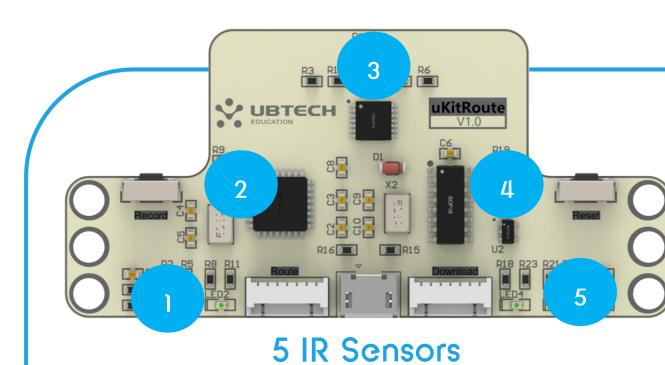
1.2 Grayscale Sensor

- $2^5 = 32$ Combinations
- In fact:

$$\binom{5}{1}$$
 x 2^{1} + $\binom{5}{2}$ x 2^{2} + $\binom{5}{3}$ x 2^{3}

$$+\binom{5}{4} \times 2^4 + \binom{5}{5} \times 2^5$$

= 5x2 + 10x4 + 10x8 + 5x16 + 1x32



242 with 31 choices



1.3 uKit Sensors & Actuators



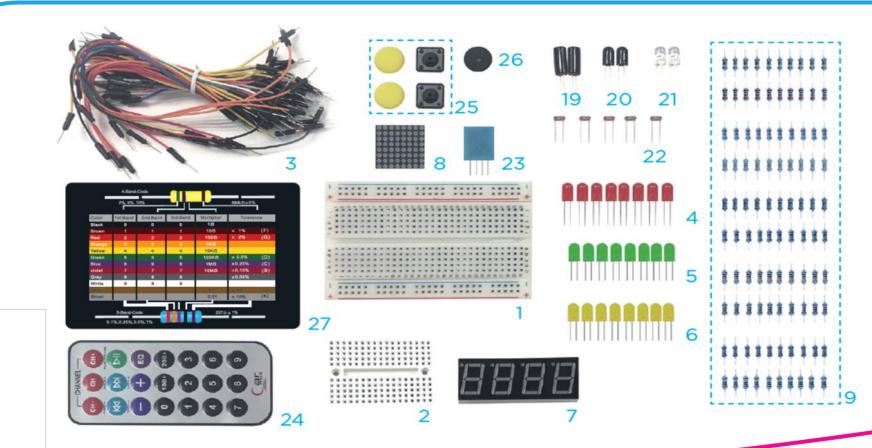


Servomotor



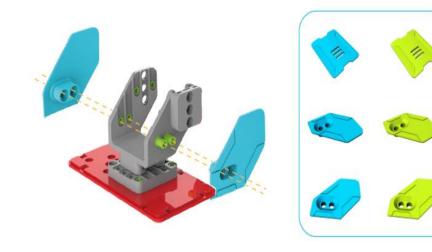
1.4 Massive Electronics

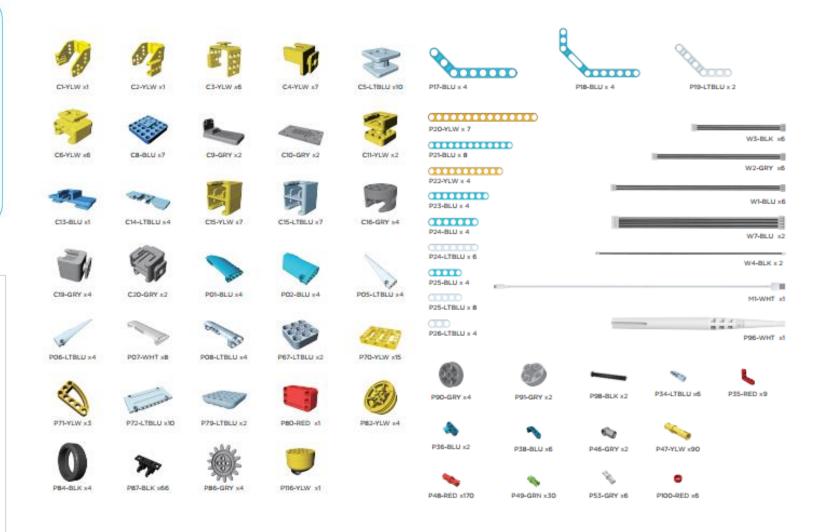
- Light Sensitive Resister
- IR Emitter/Receiver
- LED Nixie Tube
- LED Dot Matrix
- T & H module
- Breadboard
- Tilt Switch

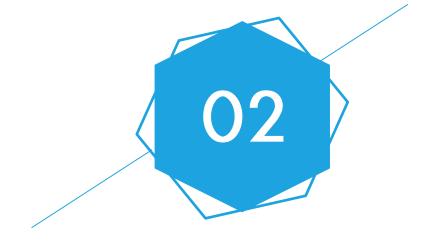




1.5 Plastic Parts

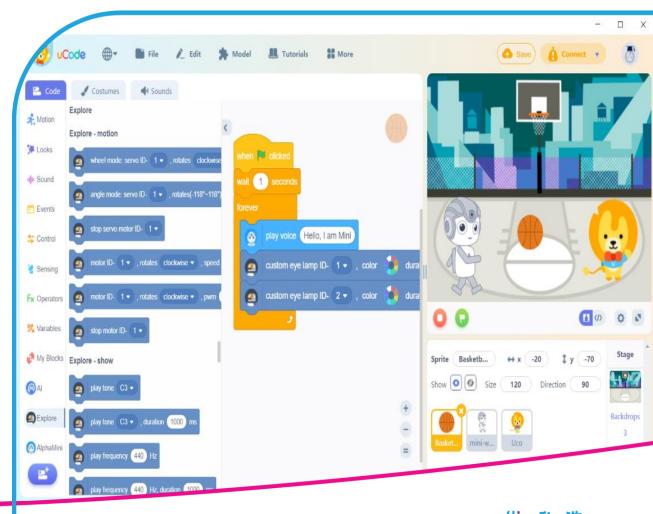




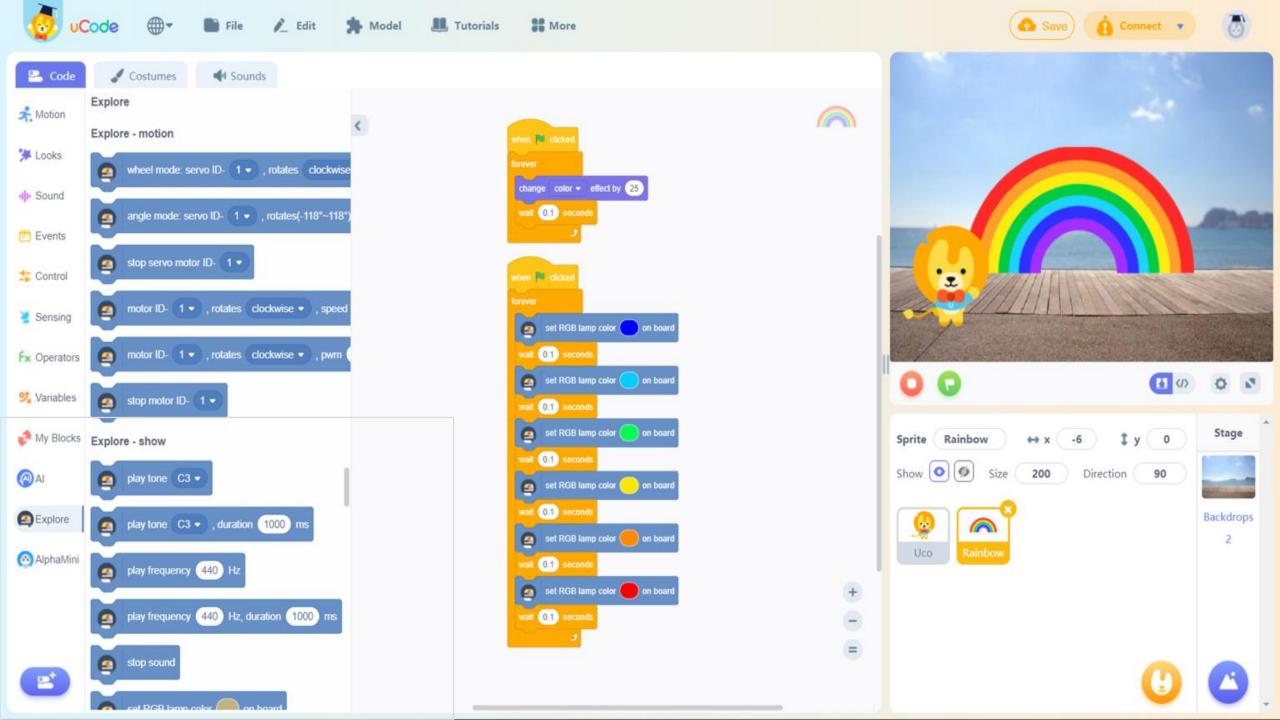


Software

uCode







Direct to uCode

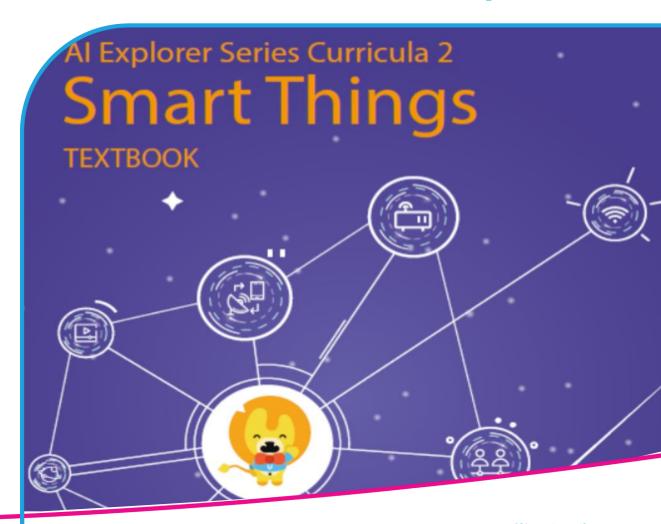




03

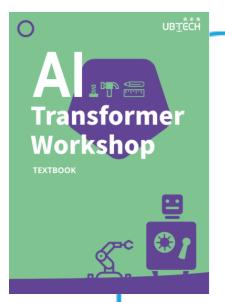
Curriculum

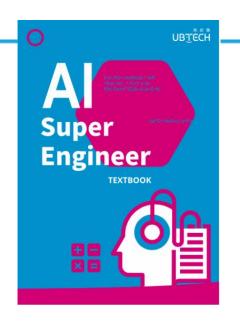
AI Explorer

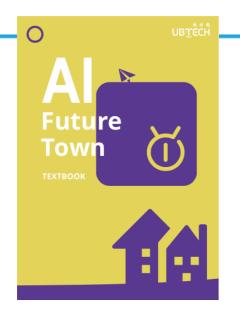




UBTECH



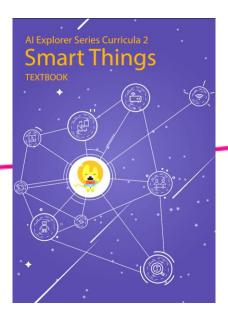




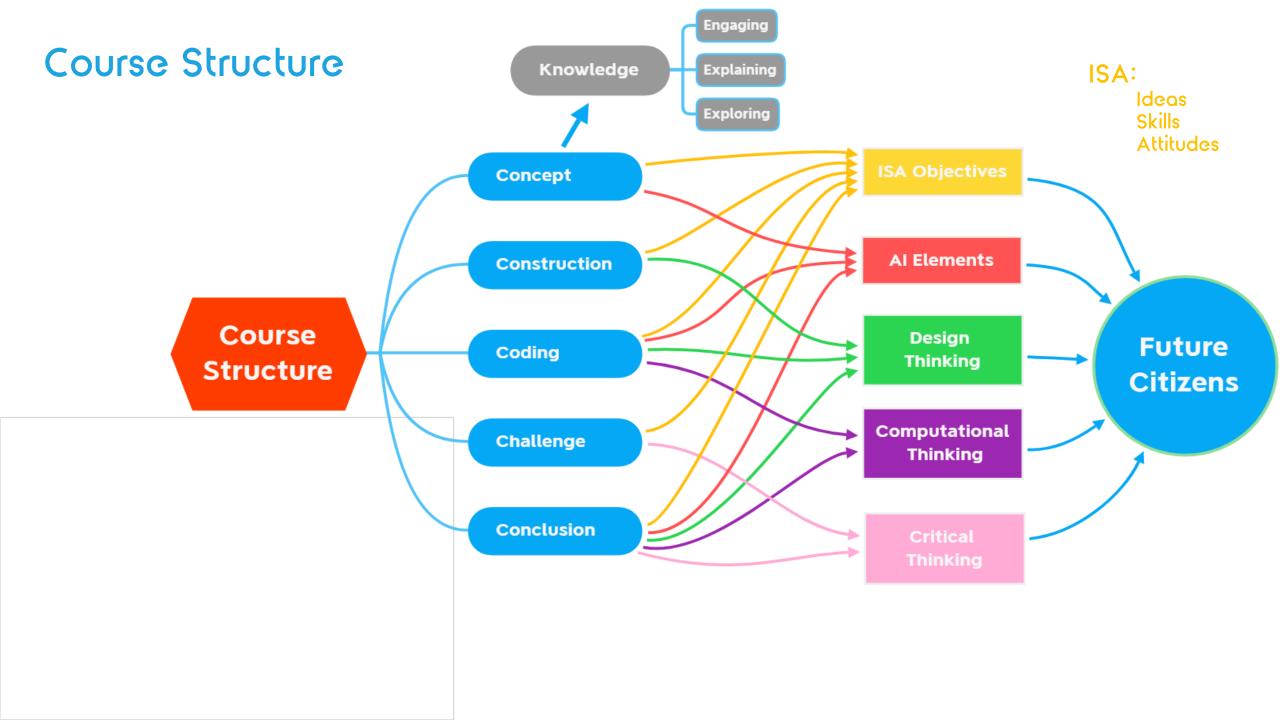












Summary





uCode



Q&A

Q: Will there be a session focusing on uCode?

A: Yes, sure.

Q: Will there be any activities recently?

A: Yes, keep following our YouTube channel and big surprises are waiting for you. (We will soon announce an online competition with great awards)

Q:

A:







That's

all for

today's

sharing

Thanks for

watching!



Dream with Robots