

Instructions for Use of children's skin pie

Welcome to the children's pie!

If it is the first time to use the children's pie, please read this instruction carefully and operate according to the instructions so as to better experience various functions of the children's pie.

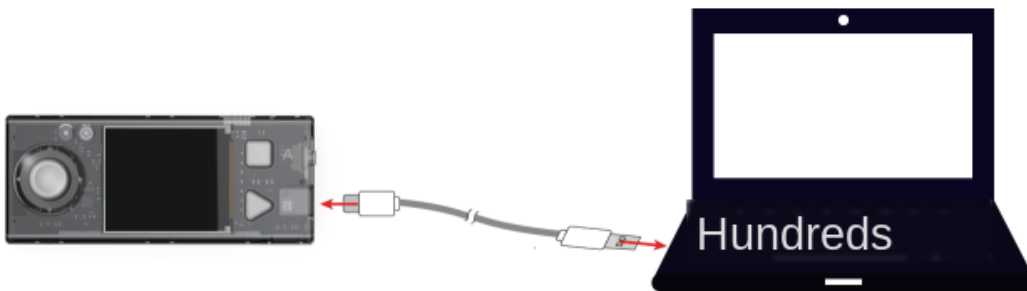
1. Preparation before use

1.1 supply power for children's tongues

Use USB data cable (Type-C) to connect child's purse to the computer , use the computer to supply power to children's tongues.

Note:

- The data cable needs to be purchased separately.
- You can also use the charging treasure to supply power to children's tongues.

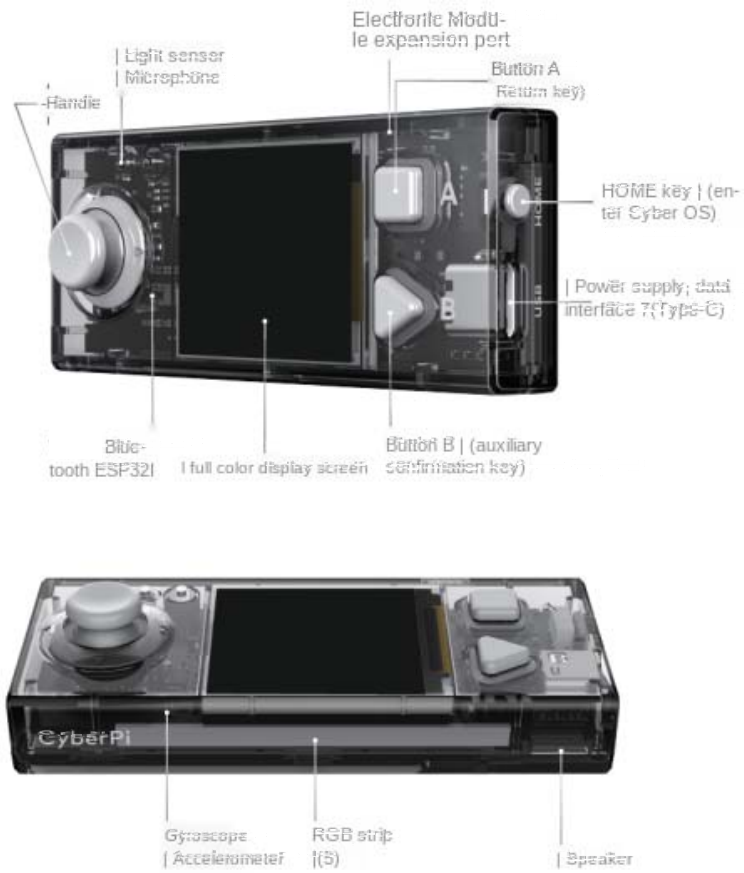


Of course, you can also buy one with your own battery [Children's Skin pie expansion board](https://www.yuque.com/makeblock-help-center-zh/cyberpi/pocket-start) [<https://www.yuque.com/makeblock-help-center-zh/cyberpi/pocket-start>](https://www.yuque.com/makeblock-help-center-zh/cyberpi/pocket-start) .

The expansion board of the children's core faction can not only supply power for the children's core faction, but also drive the motor, steering gear, light strip and the sensor compatible with Arduino. .

1.2 know your children's pie

1.2.1 Main hardware functions



1.2.2 default key function

There is a handle and two buttons in the children's core School. In the system interface, the functions of the handle and buttons are as follows:

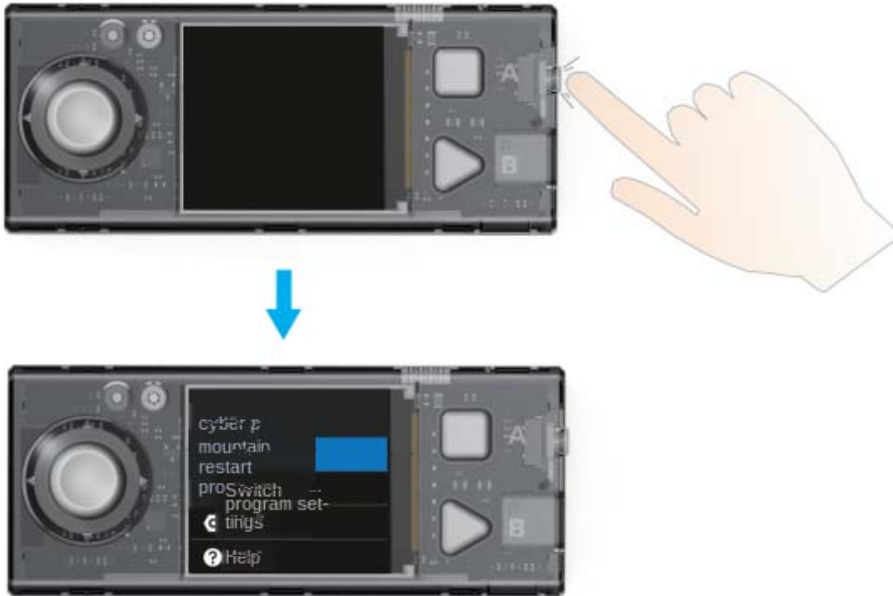


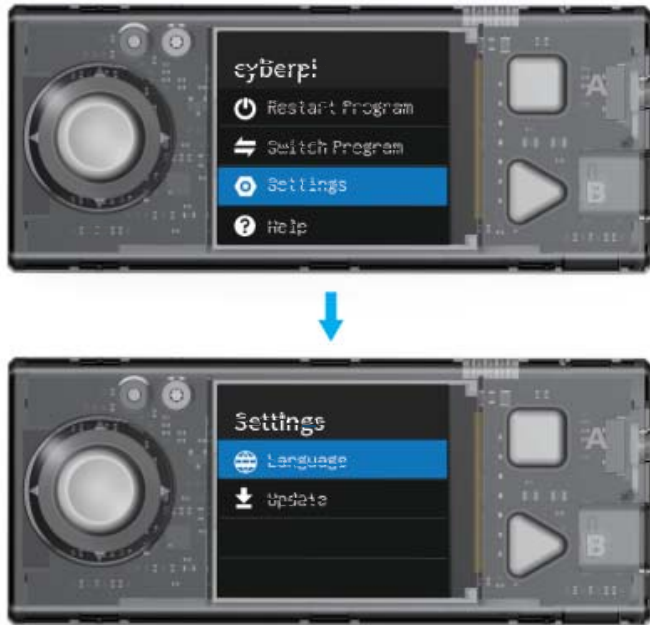
- **Handle up:**Select up
- **Handle down:**Select down
- **Handle to the left:**Select left
- **Handle right:**Select right
- **Central handle:** Confirm the selection. If there is a next menu, enter
- **Button A:** Return to previous menu
- **Button B:**Confirm the selection. If there is a next menu, enter

2. Enter the system (CyberOS) interface

Children's core school is equipped with CyberOS system, which usually displays the system interface after starting up.

If the children's skin pie does not enter the system interface normally, you can **Press the HOME button on the right side of the product** Enter the system interface.





2, In the Settings interface , Up and down handle Selector “Language” , Press Button B Into “Language” Interface.



3, Up and down handle Selector "Simplified Chinese" , Press Button B Complete language switching.



Currently, children's core school supports Chinese and English. After selecting a language and confirming it, the system will switch to the corresponding language and automatically return to the main interface.

2.3 switching program

The children's skin school supports the storage and switching of multiple programs, and comes with several demonstration programs when leaving the factory to facilitate you to understand the main functions of the product.

Note:

- **Because the artificial intelligence and the Internet of Things projects both require the children's pie to keep connected to the Internet, they are not included in the factory program of the children's pie. We will Hui programming tutorial-sample program Provides the corresponding editable program in.**
- **The uploaded program through Hui programming will overwrite the factory demo program at the corresponding location, but we provide the program source file of the demo program so that you can restore it when necessary.**

1, Enter the systemInterface, Up and down handle Selector "Switching program", Press Button B To enter "Switching program" Interface.



2, Up and down handle Select the program you want to switch, such as Program 1, Press Button B To restart the children's pie, The child core faction will restart and execute program 1.



The name of the program will be displayed on the screen of children's skin pie. If you need to perform the operation, the corresponding prompt information will also be displayed.

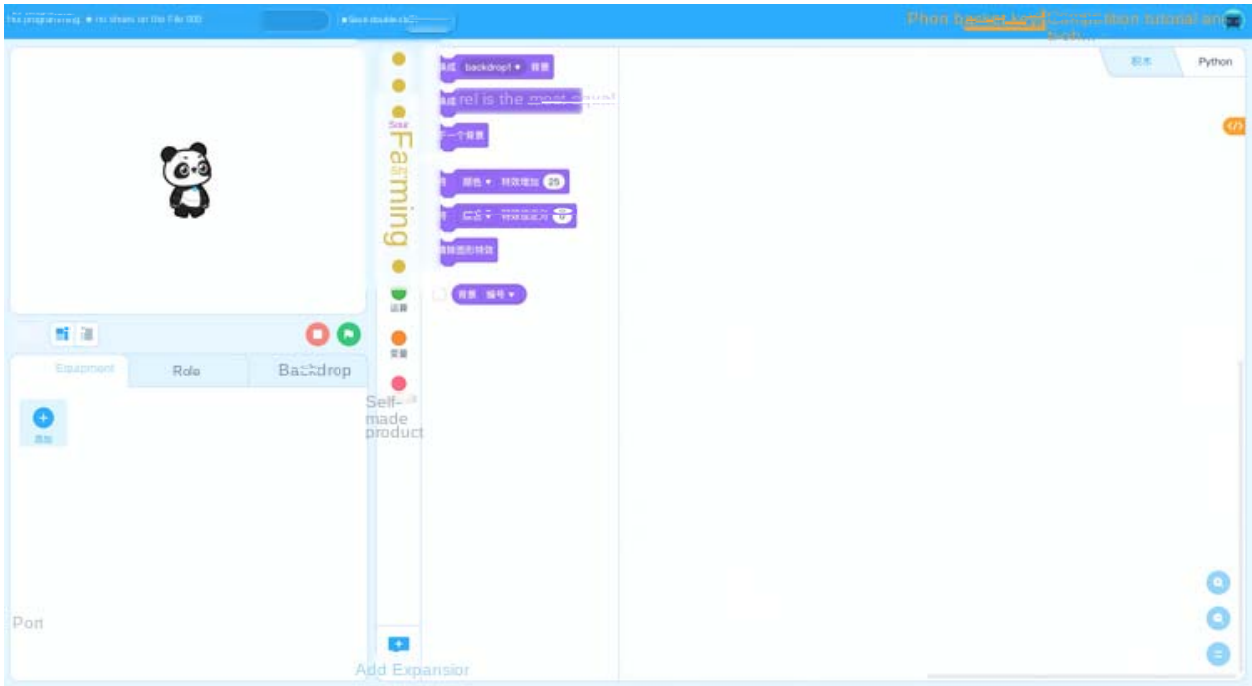
3. Start programming

This section will This paper introduces how to program the children's school through Hui programming to give full play to the powerful function of the children's school.

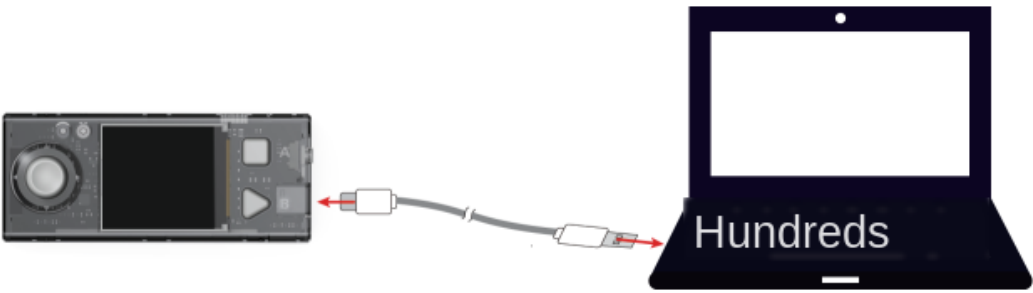
3.1 download and install necessary software

Note: tong xin sent currently only perfect adapter Hui Programming Web end, does not support Hui programming mobile end and clients.

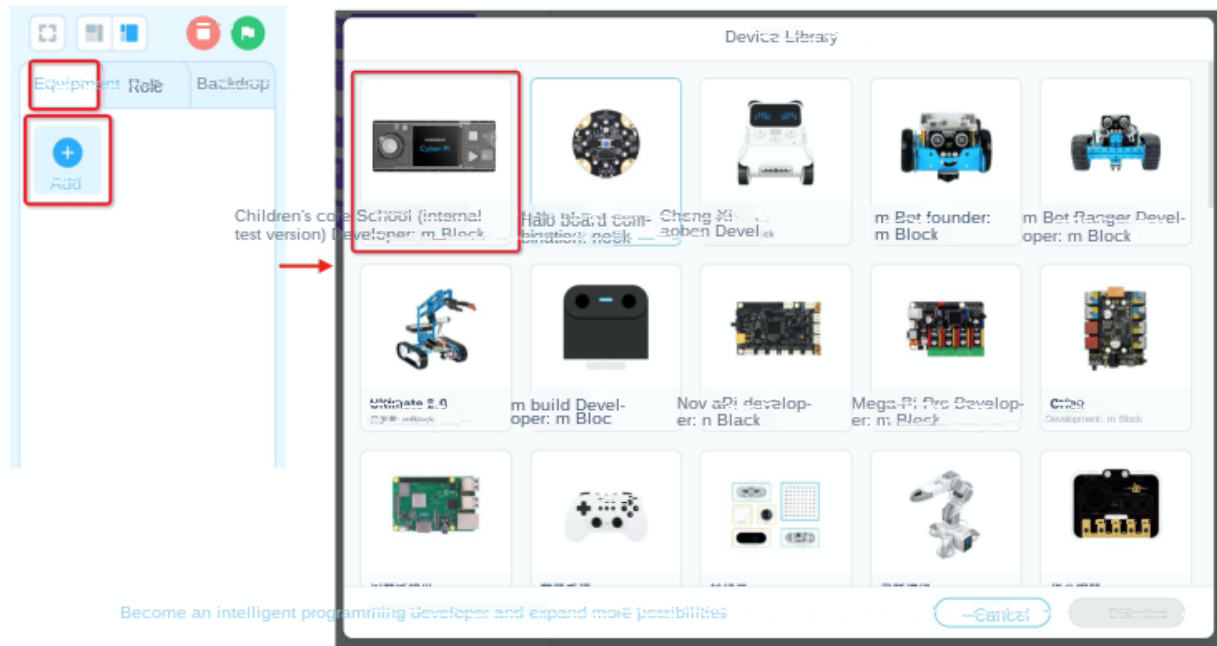
Programming language	Programming tools	Support Platform	Software to be downloaded	Entrance
Scratch graphical programming, Micro Python	Hui programming -Graphical	PC/Mac web page 	Chrome browser < https://www.google.cn/intl/zh-CN/chrome/ > mLink Mac Edition < https://dl.makeblock.com/mblock5/darwin/mLink.pkg > mLink Windows < https://dl.makeblock.com/mblock5/win32/mLinkSetup.exe >	https://ide.makeblock.com/ < https://ide.makeblock.com/#/ >
Python、 Micro Python	Hui programming -Python editor	Web terminal 	Chrome browser < https://www.google.cn/intl/zh-CN/chrome/ > mLink2 < https://www.mblock.cc/zh-cn/download/mlinkpy >	https://python.makeblock.com/ < https://python.makeblock.com/ >



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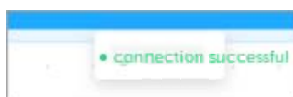
3. In Hui programming, click "add" in the "equipment" tab to add children's pie from the equipment Library.



4. Click "connect" to connect children's core to Hui programming.

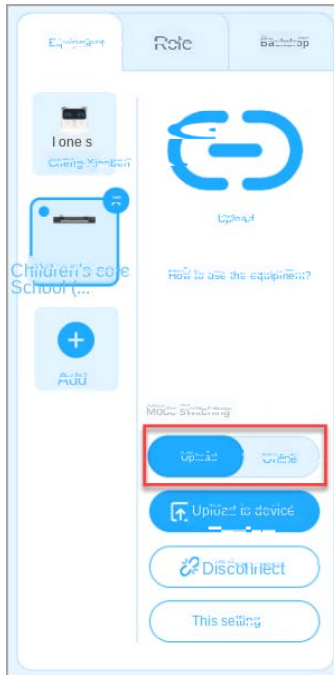


After the connection is successful, Hui programming will prompt that the connection is successful, as shown in the following figure:



5. Select the appropriate programming mode.

Hui programming has two modes of executing programs: online mode and upload mode. Click the mode button to switch to the corresponding mode.



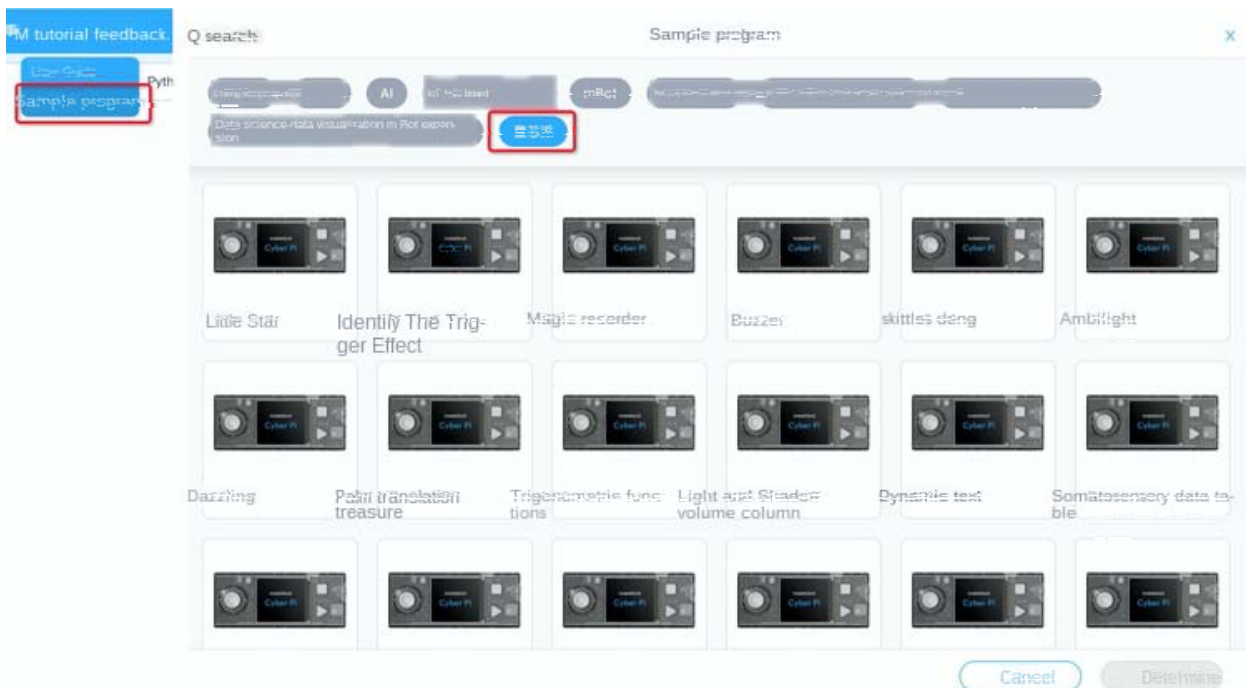
Online mode: You can view the running results in real time without uploading the program for debugging program fragments.

Upload mode: The program needs to be uploaded to the device. After the upload is successful, the device is disconnected from the software. The program can still run in the device.

Now, we can start programming!

3.2.2 experience sample program

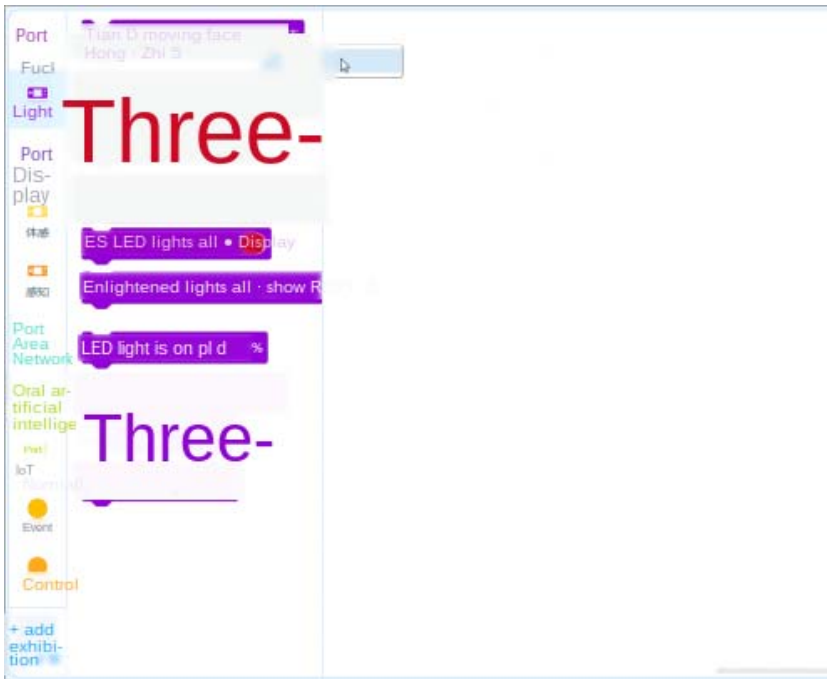
Hui programming provides a large number of sample programs for you to learn and use. You can access the sample programs through the "tutorial" menu on the right side of Hui programming toolbar.



You can select the program you are interested in, load and view the detailed building blocks, execute it online or upload the program to the children's pie.

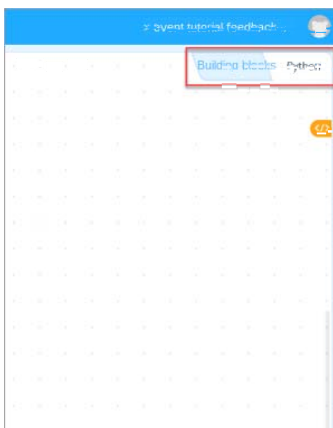
3.2.3 building block help

Hui programming provides a wealth of building blocks for children's school. When using building blocks for programming, if there is any doubt about the use of building blocks, You can right-click the building block and select the pop-up "help" menu to view the help information of the building block.

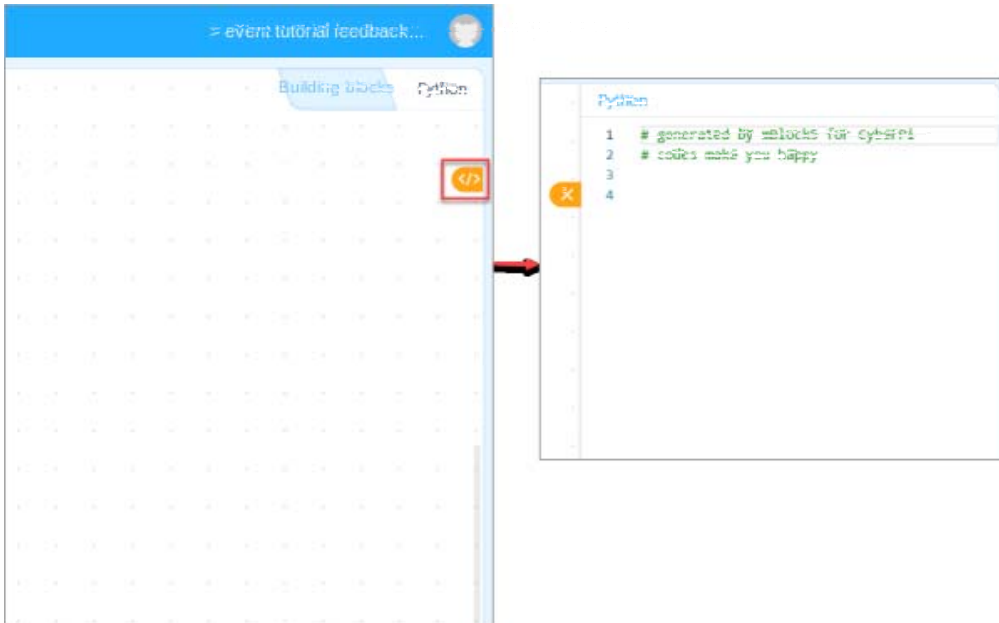


3.2.4 switching programming language

Hui programming provides two programming languages for children's school: building blocks and Python. In **Upload mode** Click the tab button on the right to switch with one click.



In addition, in the process of programming using building blocks, you can also click the switch button on the right to view the corresponding Python statement.

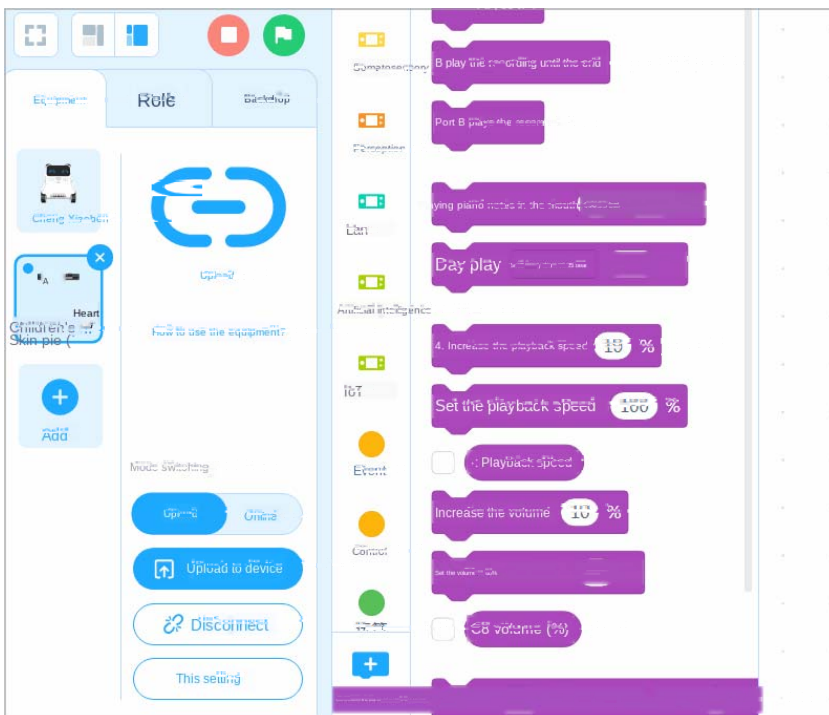


Tip: You can view [Pi Python API <https://www.yuque.com/makeblock-help-center-zh/mcode/cyberpi-api>](https://www.yuque.com/makeblock-help-center-zh/mcode/cyberpi-api) , understand and use more functions of the children's pie.

3.2.5 programming example

Next, we will use Hui programming **Online building blocks** Programming to achieve the Running Horse light effect of the LED lamp on the children's pie.

1. Set the programming mode to "online".



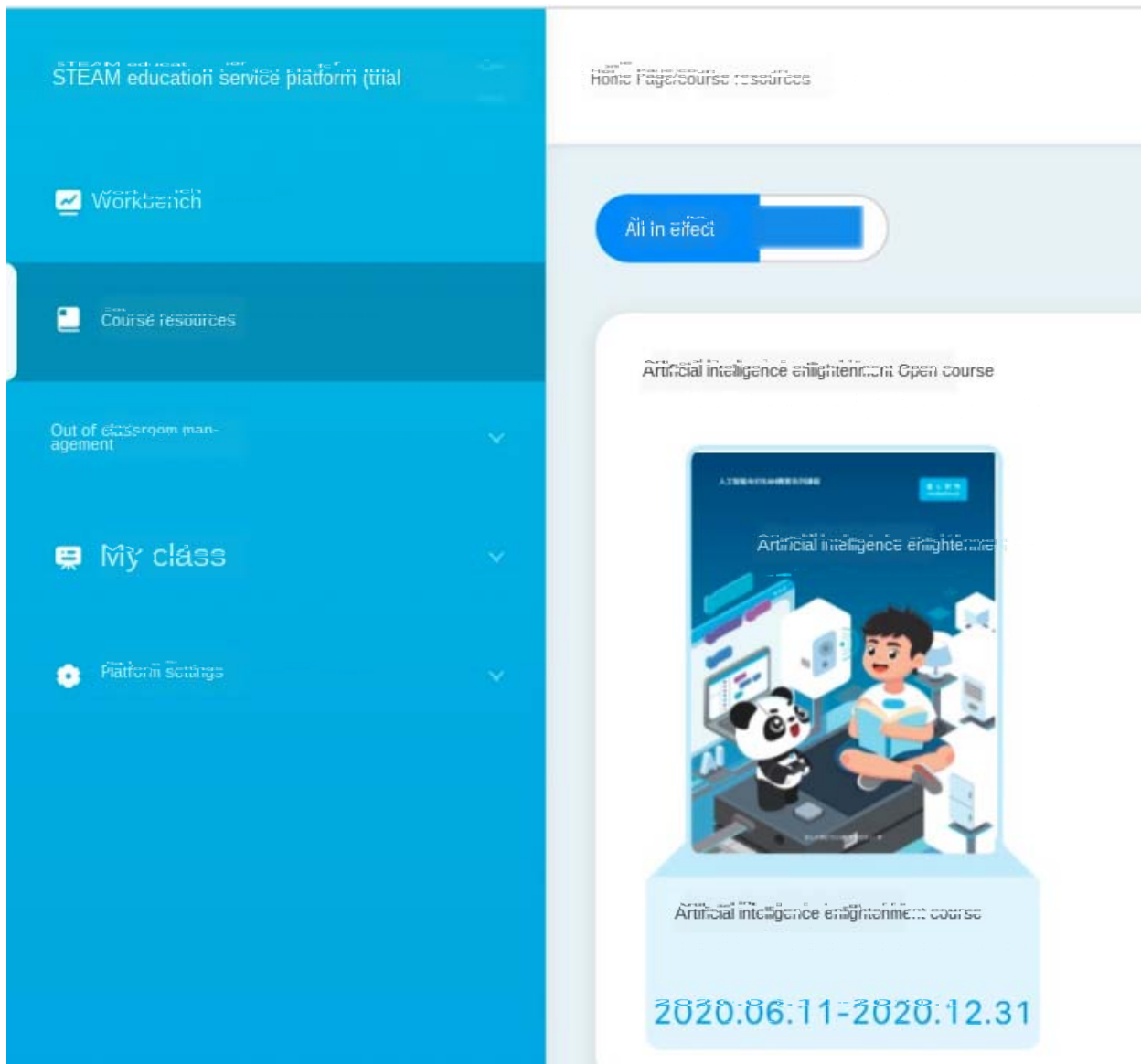
2. Set the initial color of the LED lamp.

Open it on the computer [Hui programming-Python editor <https://python.makeblock.com/>](https://python.makeblock.com/) , Enter the Python programming interface of Hui programming and start Python programming.

4. Receive public welfare courses

The children's core School has prepared 16 open classes of artificial intelligence enlightenment, which can be received in the following ways.

1. Login [[Hui classroom](http://edu.makeblock.com)] <<http://edu.makeblock.com>> Platform: edu.makeblock.com
2. Fill in relevant information, register Hui classroom account
3. Enter the course resources page and click "artificial intelligence enlightenment course"



5. Online support

Join the online community

Scan the QR code below or directly access 【 [DingTalk community group entry page](#) <https://jinshuju.net/f/ezcNar?x_field_1=cyberpi> 】, join our online **DingTalk community** , understand the children's core School **School drifting activities** And the latest updates, get our real-time online use guidance and technical support.

The after-sales

If you encounter any product quality problems, or there are missing parts, missing parts and missing parts, please contact our after-sales service

Makeblock after-sales Public number



Technical support hotline

400-893-004 (Monday to Friday 09:30~18:30)

Feedback product suggestions

You can pass cyber.list@makeblock.com Directly feedback your suggestions on the product to our development team.

6. FAQ

Q: How to write games for children's pie?

A: In order to ensure the user experience, we currently only open limited display screen control permissions. More features are still under development. Currently, you can use intelligent programming-Python combined with a python library such as pygame to control pygame running on the computer (as a remote handle function). Or use the expansion of "child's core laboratory" we use for preemptive experience to experience our latest functions. (Sometimes, the function of child's core laboratory will require you to update the firmware of a specific internal test version)

7. More data

[Instructions for Use of children's skin pie <https://www.yuque.com/makeblock-help-center-zh/cyberpi/cyberpi-start>](https://www.yuque.com/makeblock-help-center-zh/cyberpi/cyberpi-start)

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.