X-KIT

Unlimited Robot Creation Kit with 3D Printing

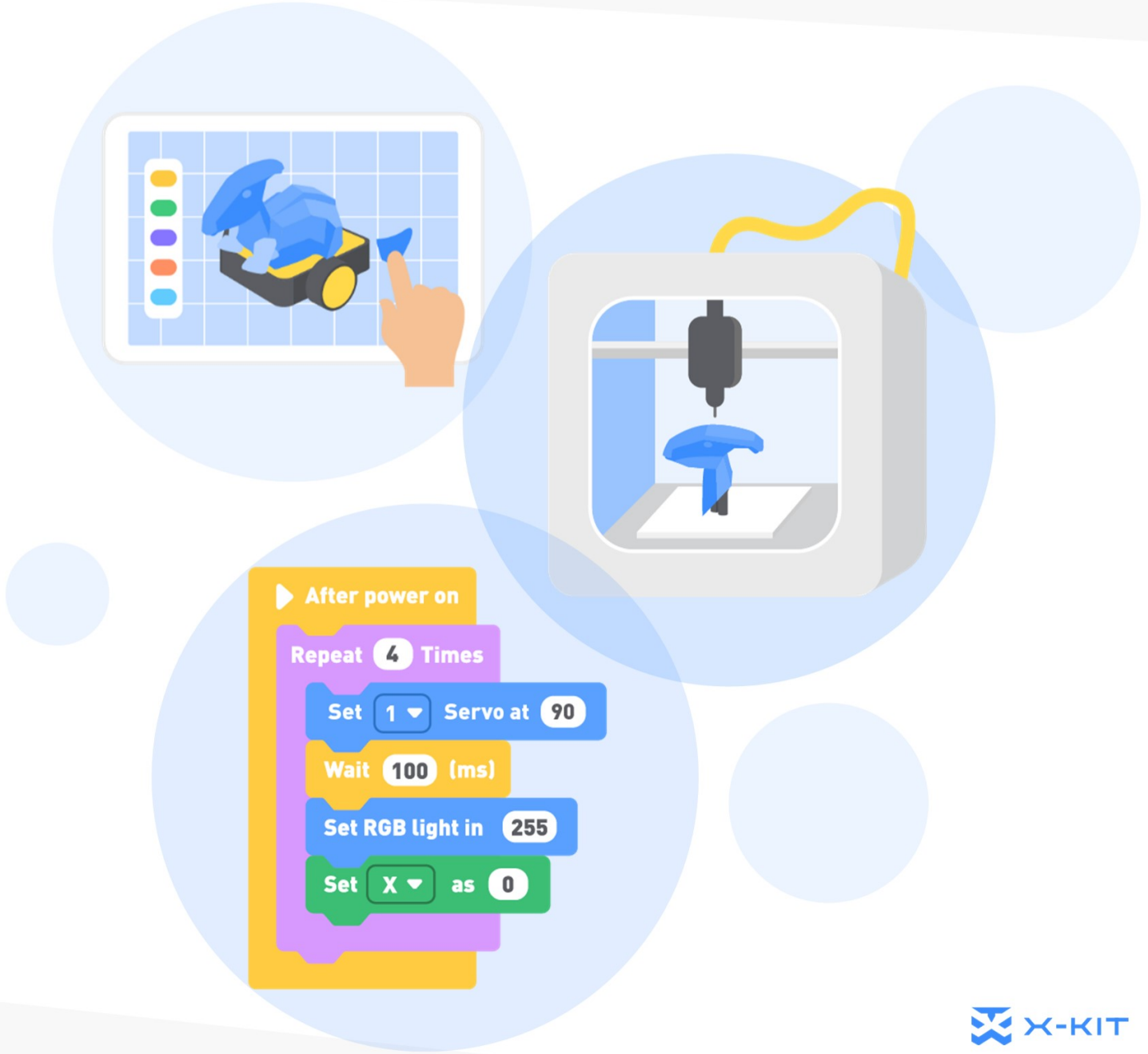
IME3D®

Our Mission:

Inspire Kids to Learn While Creating

The Product:

Rapidly creating various toy robots by modularized 3D design, 3D printing and fun coding.



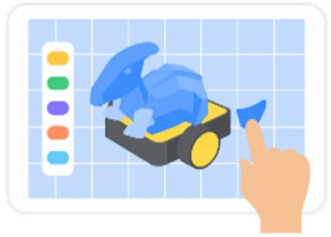
X-KIT

The Strength:

Unlimited Variations to Realize

Derives from the hub to robots

X-KIT



Design

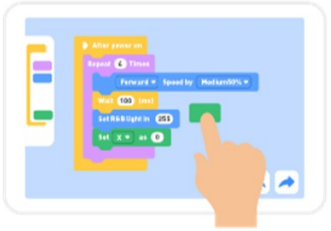
Pick a preset design from the list in the app. Customize the design by will. Export the printing file.

3D Print

Send the file to a 3D printer and start to print the components of the design.

Assemble

Put the printed pieces together on the hub following the instruction shown in the app.



Code

Build and transfer a desirable program for the robot.

Play

Let the robot run as programmed or control it by the console in the app.

The order of the process is flexible. For example, users can run the bare base without design, or print, or code by direct remote-control.

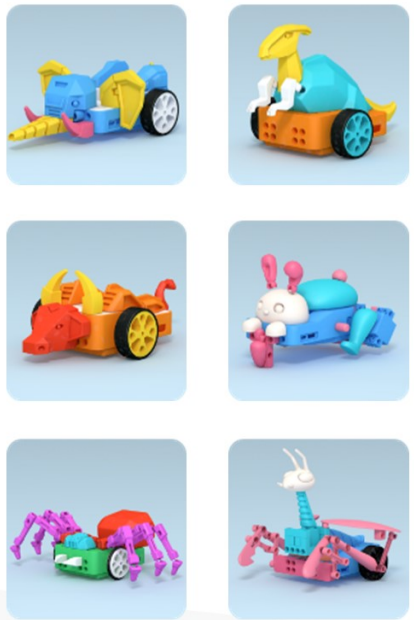
Features at the stage of **Designing**

Features

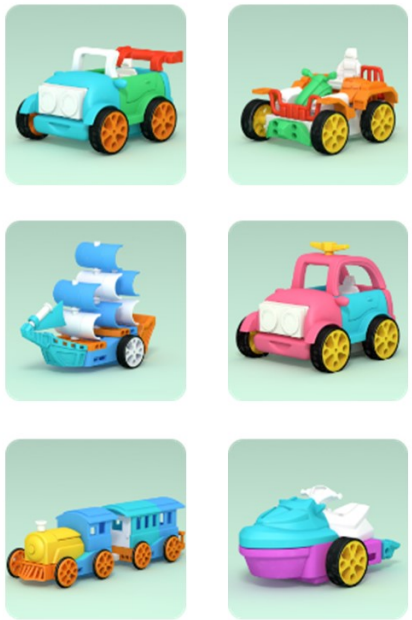
Design → 3D Print → Assemble → Code → Run

X-KIT contains 60+ robots from 4 categories for kids to pick.

Animal Kingdom

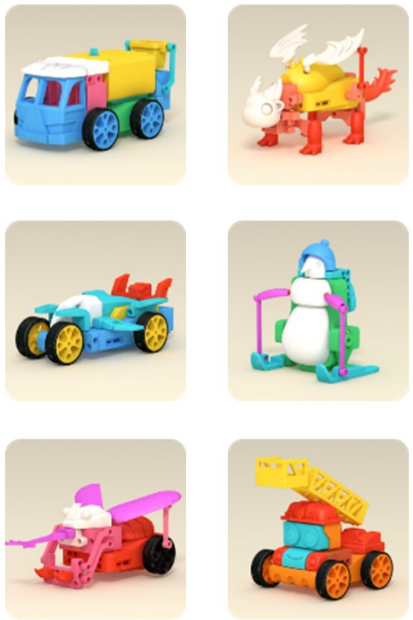


Vehicle League



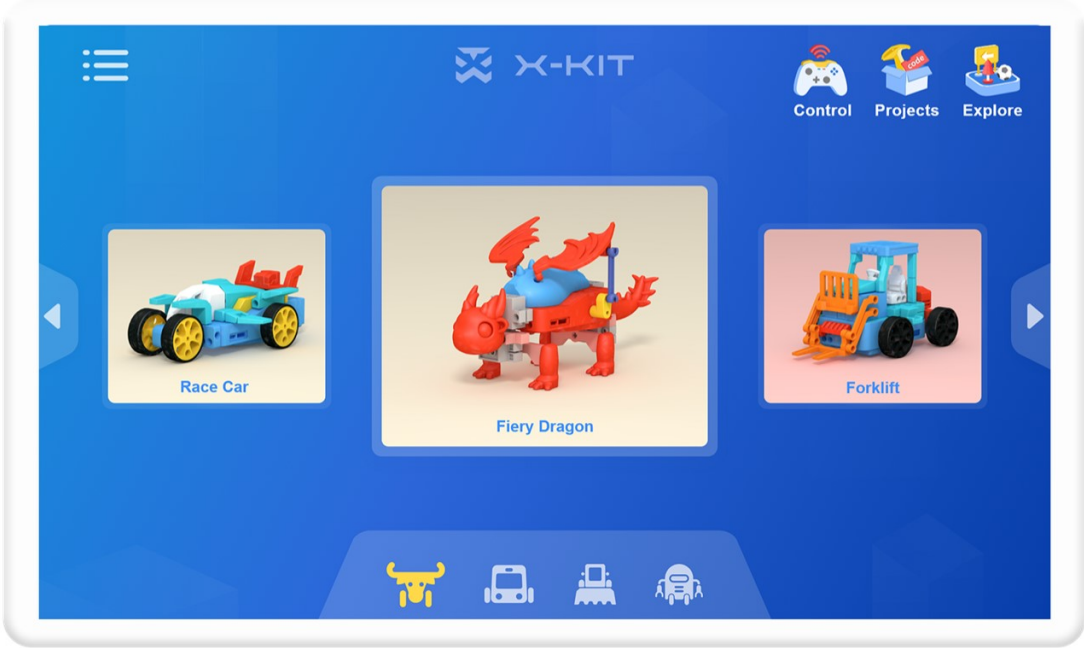
Construction Group

Fantasy Show

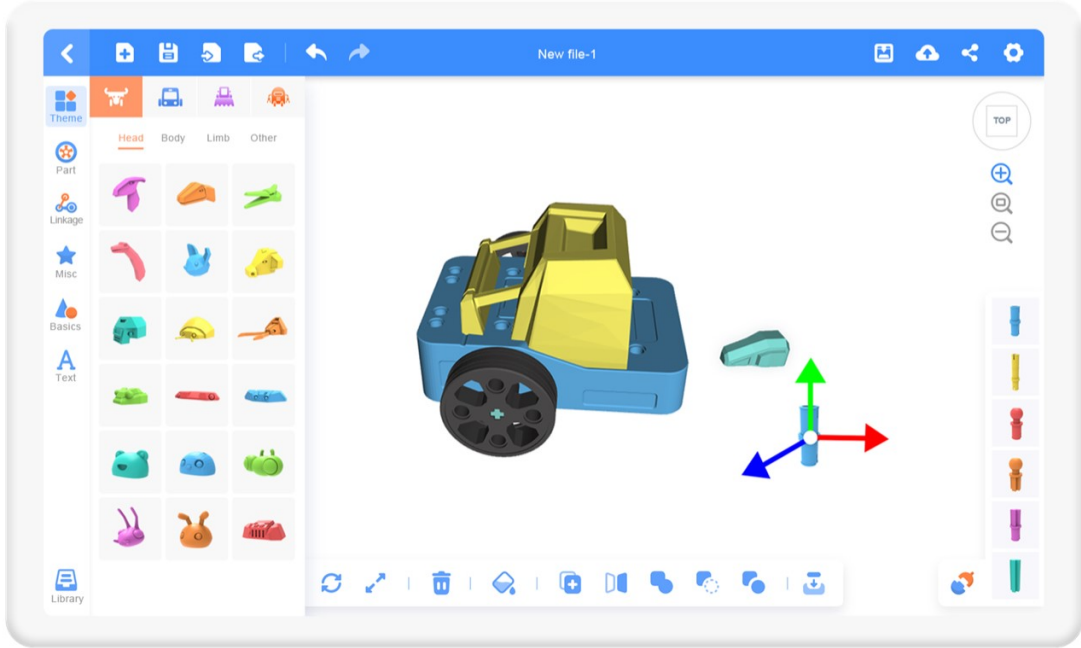


Features

Design → 3D Print → Assemble → Code → Run



The APP allows users to select the preset robot designs.

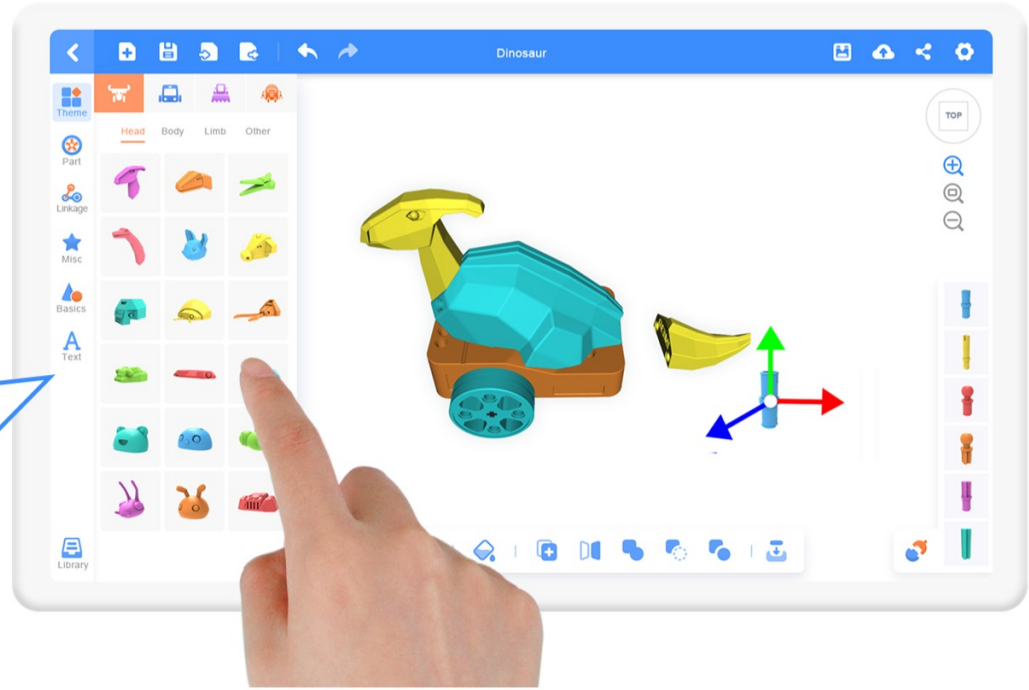


Or to create own robot design based on the givens.

Features

Design — 3D Print — Assemble — Code — Run

X-KIT has prepared **650+** parts for users to design with.

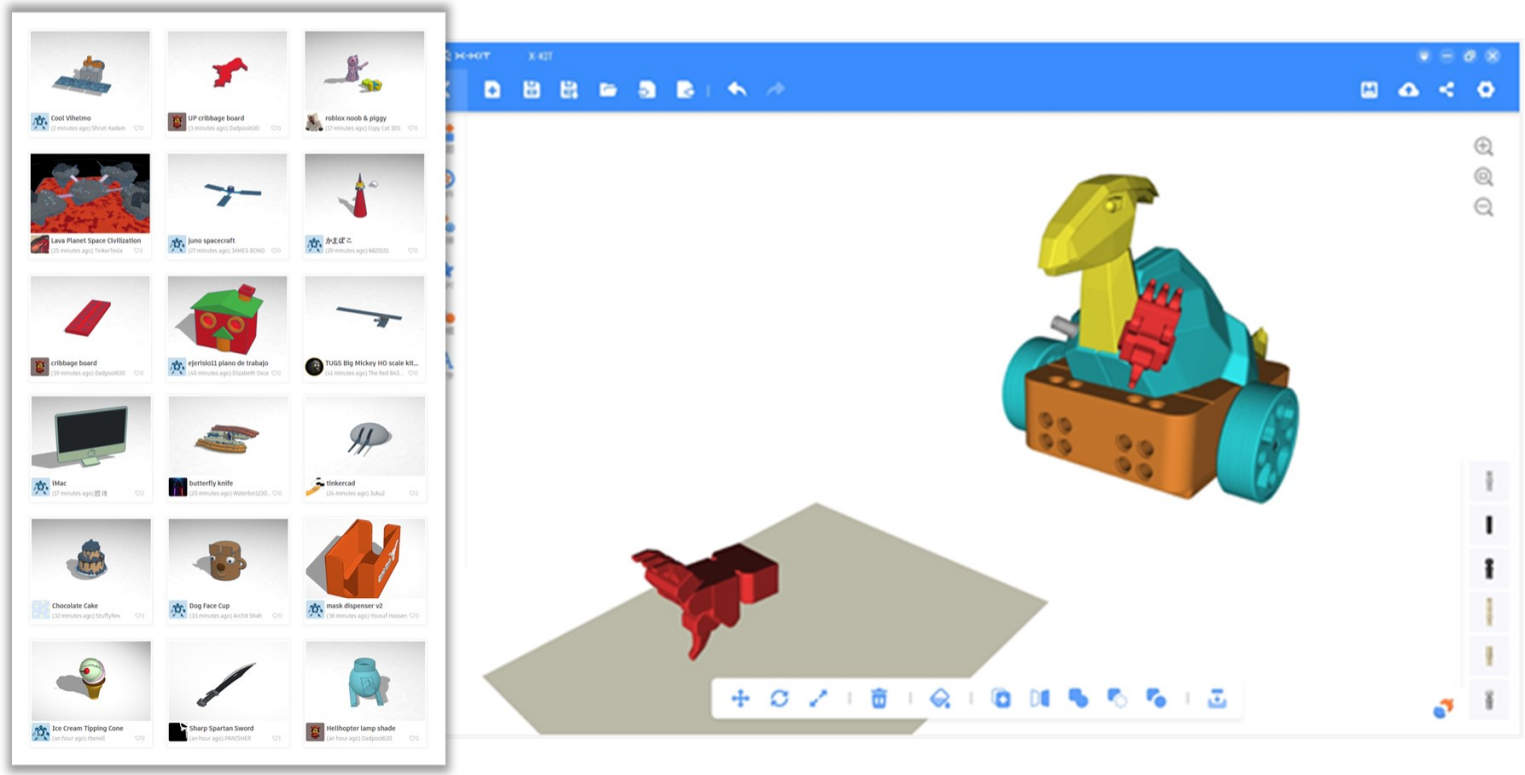


While modeling, simply dragging parts onto each other will make them snap.

X-KIT

Features

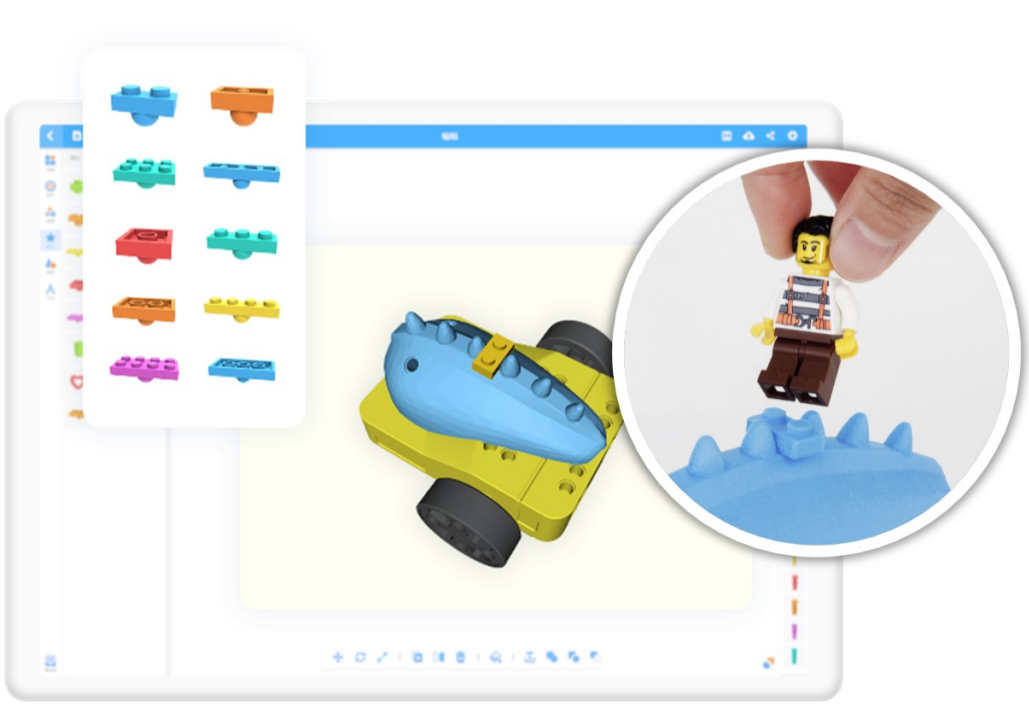
Design — 3D Print — Assemble — Code — Run



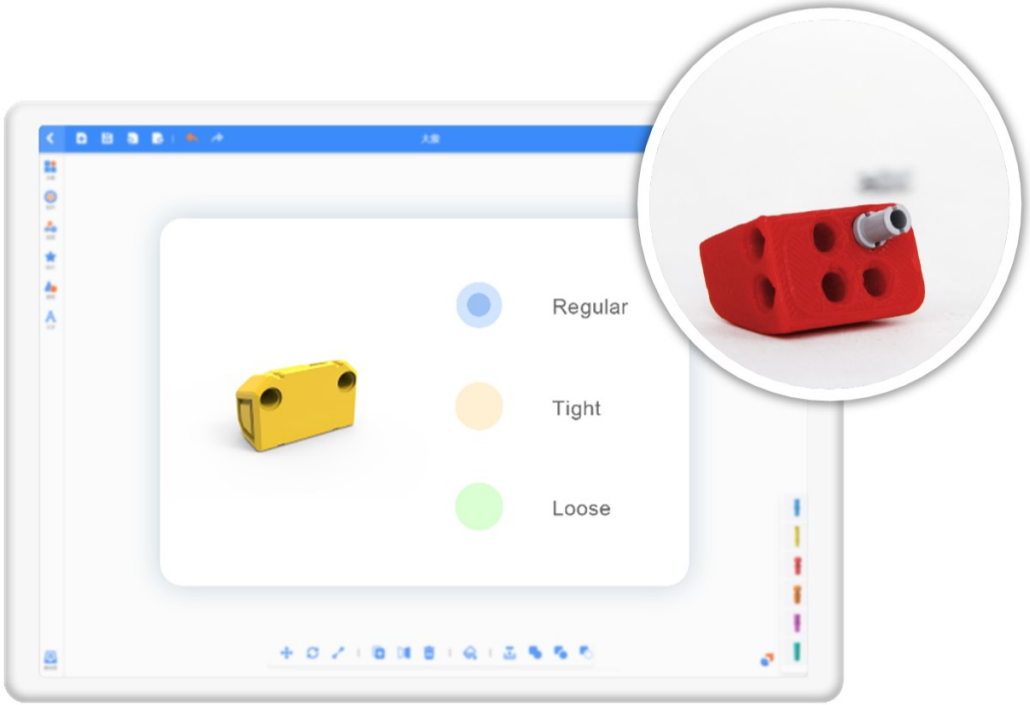
Custom or downloaded 3D files can all be imported in the app for extensive use.

Features

Design → 3D Print → Assemble → Code → Run



LEGO fitters are specialized for being compatible with LEGO parts.



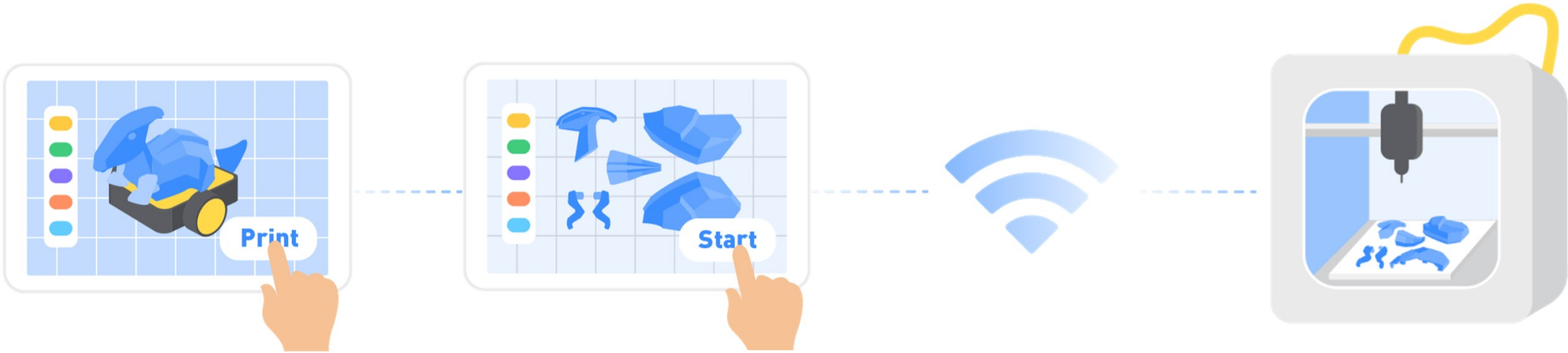
The universal sizes of socket in the parts can be adjusted to best fit the connectors.

Features at the stage of **3D Printing**

X-KIT

Features

Design → 3D Print → Assemble → Code → Run



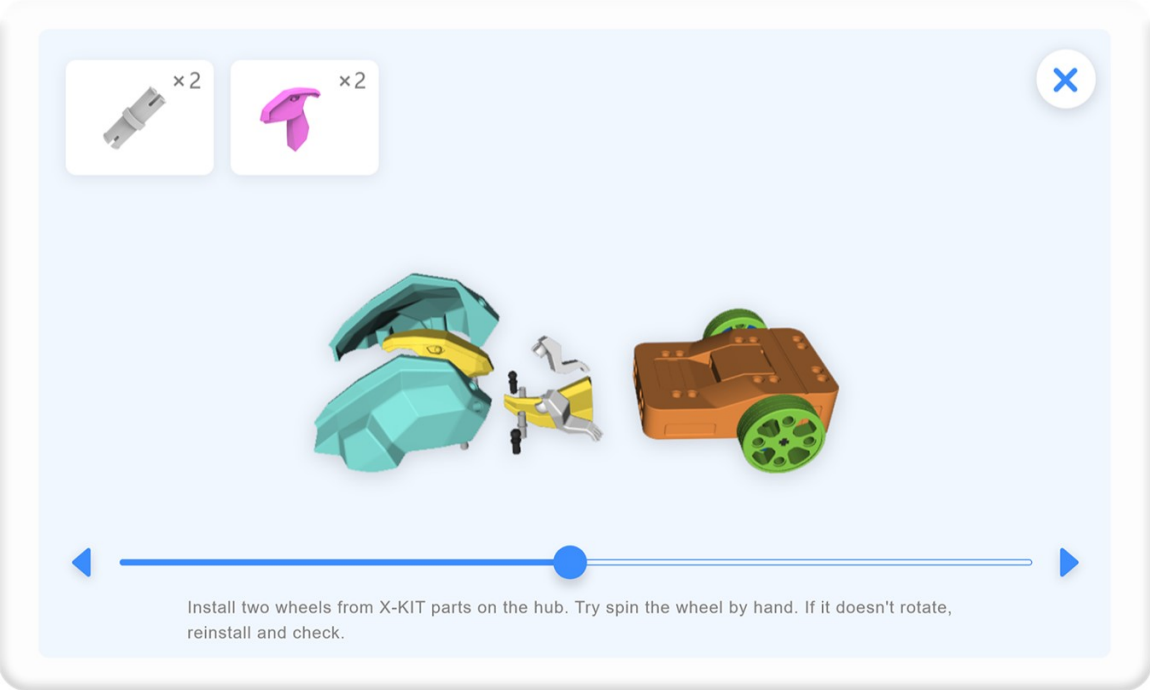
Pressing “Print” button after a design being done, sliced printing files are already automatically arranged on a plate for printing, which can be send to the 3D printer directly via WIFI.

Features at the stage of **Assembling**

X-KIT

Features

Design — 3D Print — **Assemble** — Code — Run



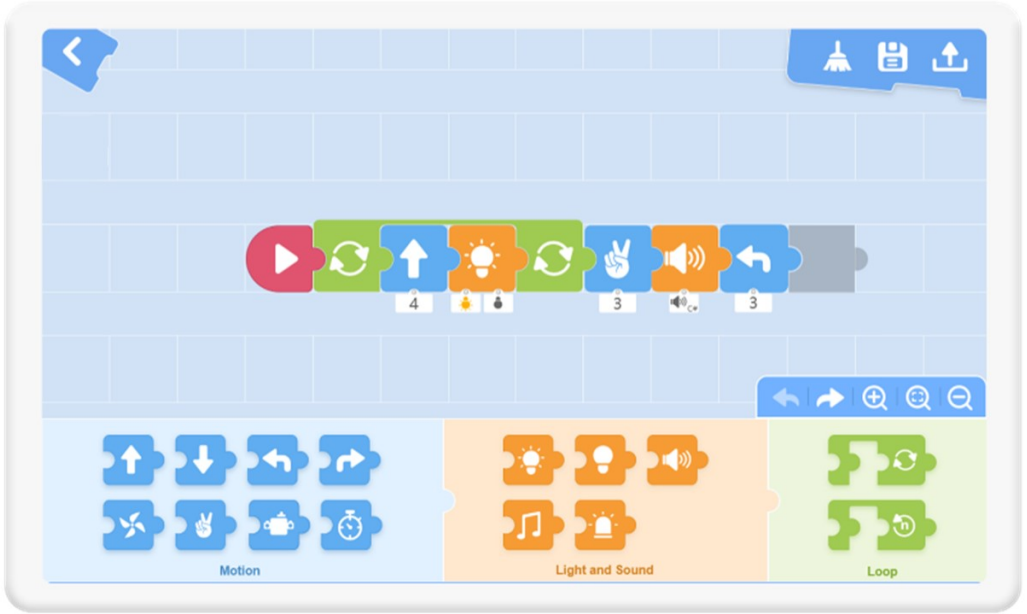
With printed parts of the robot at hand, animated instruction of assembling is going to aid kids in building the model.

Specially designed connectors are prepared in the kit for connections between parts.

Features at the stage of **Coding**

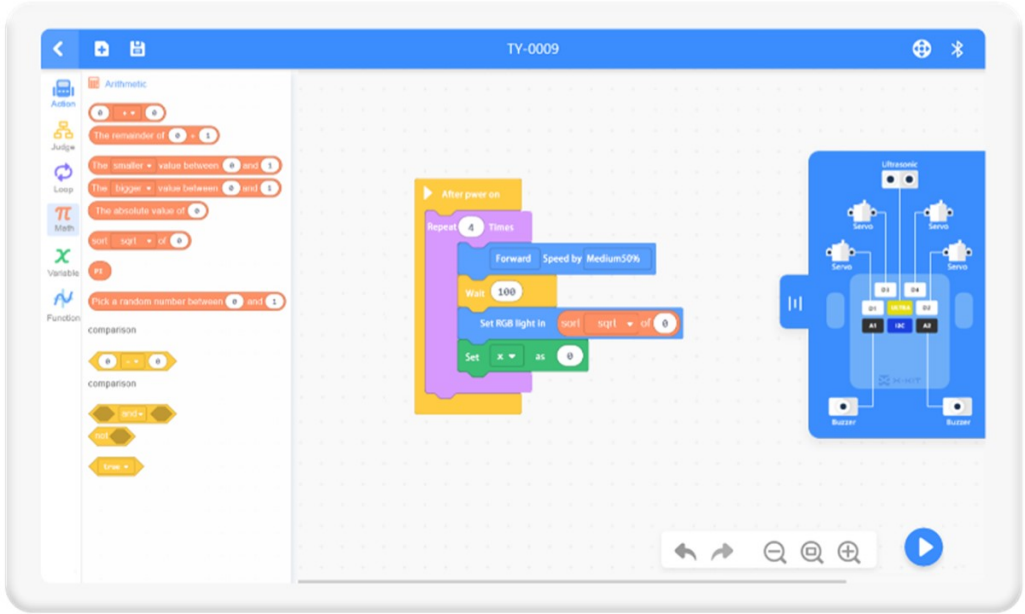
Features

Design → 3D Print → Assemble → **Code** → Run



Card Mode

The intuitive graphical Card programming enables young kids easily command the robot.

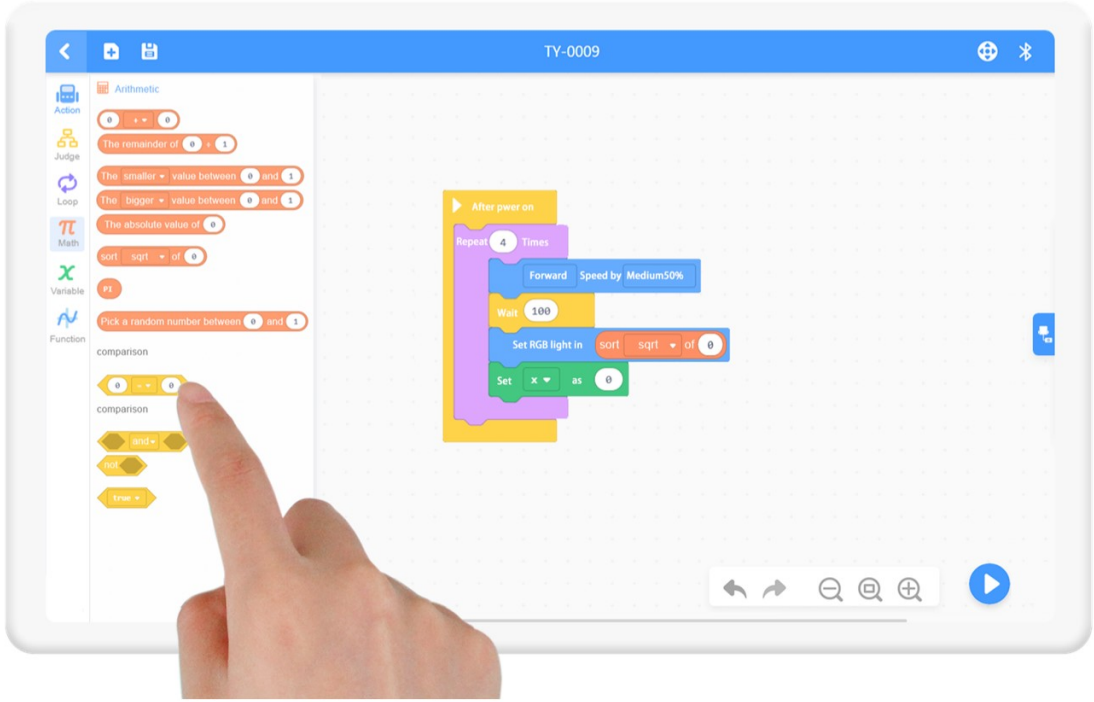


Block Mode

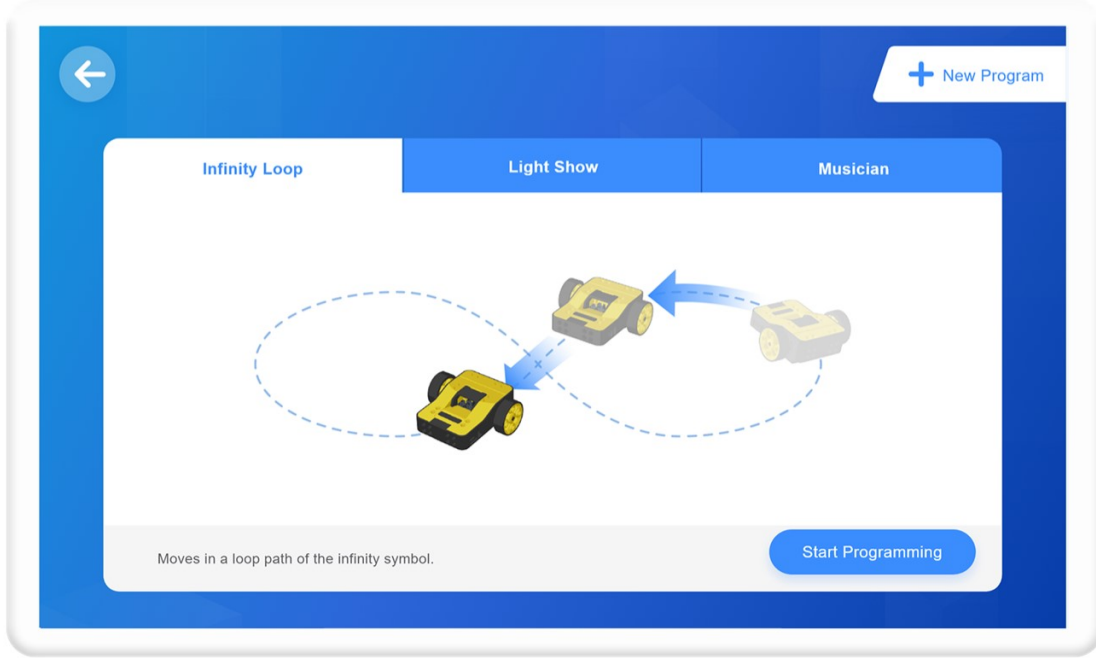
The Block programming let all users freely program the robot by snapping blocks.

Features

Design → 3D Print → Assemble → **Code** → Run



The intuitive graphical programming enables users to easily and freely program the robot.

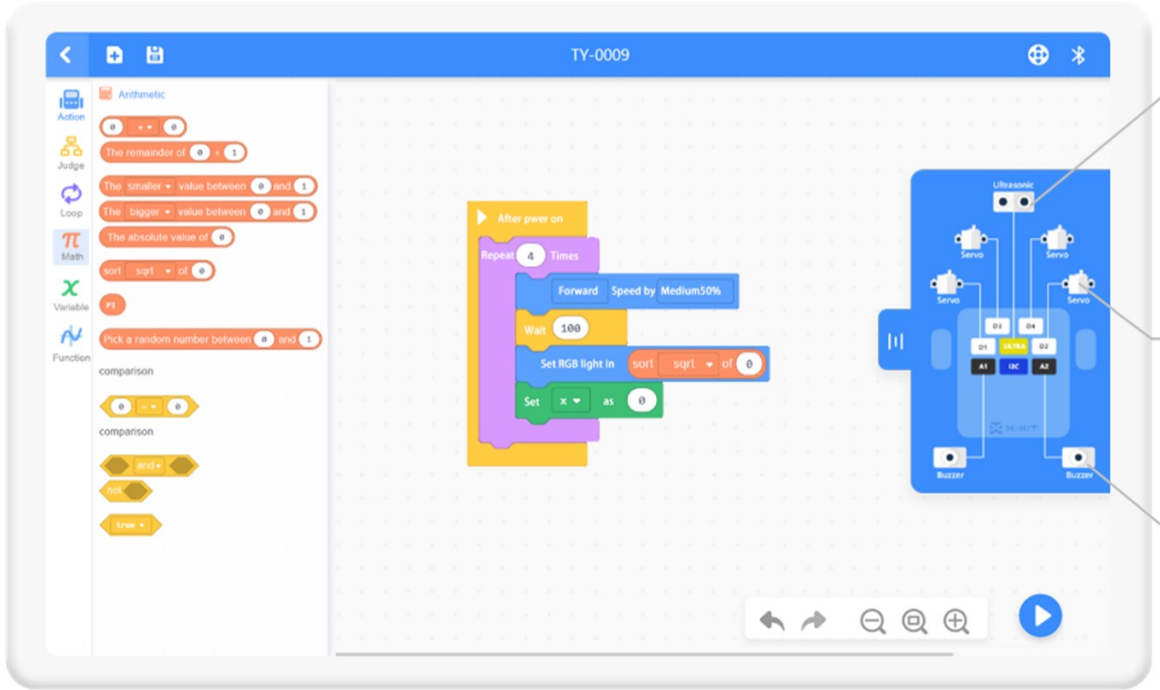


In addition, pre-made programs are recommended for users to apply in the robot directly.

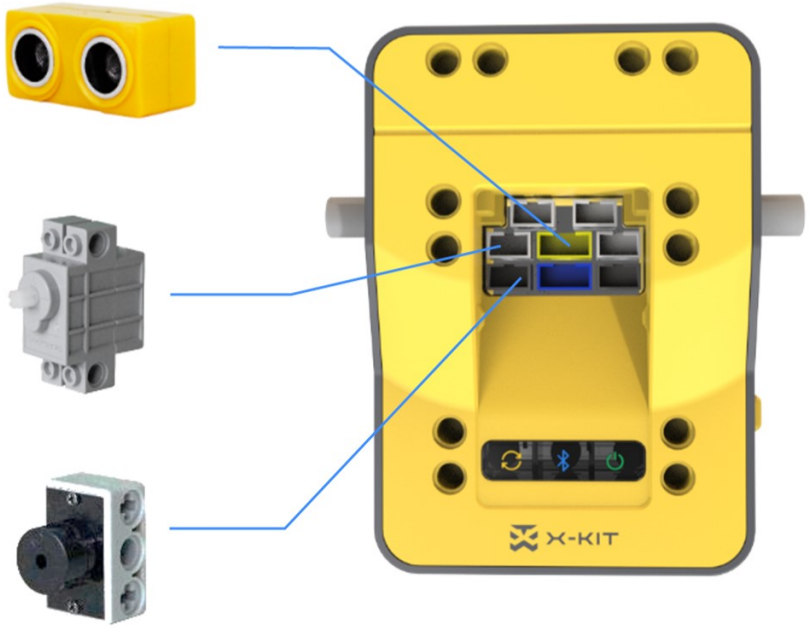
X-KIT

Features

Design → 3D Print → Assemble → **Code** → Run



Electronic modules, such as the sensors and actuators, can be activated as whatever it is programmed to let the robot do any action as intended.



Universal ports on the Hub fits other sensors and actuators.

Features at the stage of **Running**

Features

Design → 3D Print → Assemble → Code → Run

Programmed Mode

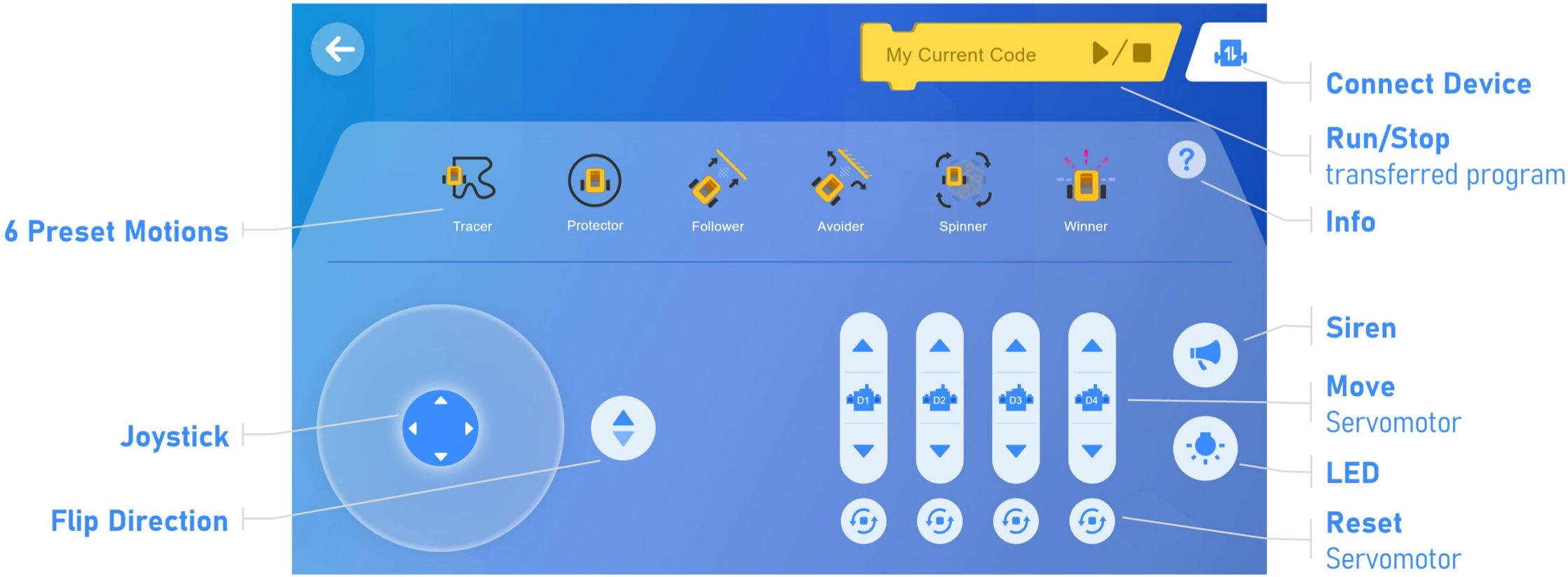
The robot will run as how the user programs.

Remote-Control Mode

The user wirelessly controls the robot to run.

Features

Design → 3D Print → Assemble → Code → Run



X-KIT has a powerful console that can control the robot through Bluetooth.

Features

Design → 3D Print → Assemble → Code → **Run**

There are 6 pre-programmed motions in the console panel.

Tracer

The Tracer auto-traces the black line in the court using the IR sensors embedded.

Protector

The Protector patrols only in the territory inside the black circle.

Follower

The Follower keeps a fixed distance to the object it follows.

Avoider

The Avoider bypasses an obstacle every time it encounters one.

Spinner

The Spinner spins in an increasing speed and then slow down till it stops.

Winner

The Winner celebrates by moving in a path of letter “V” with lights flashing.

Unlimited Gameplay, Unlimited Fun

Jurassic Park

Crossing Bridge

Creative Building

Forklift Contest

Mechanical Arm

Painting Robot

Ping-Pong Launcher

X-KIT

Creative Educational

Case Studies

X-KIT

Progressive Creations

Phase 1

Various looks like animals, aircrafts or ships are built on the hub. Parts of different designs can be exchanged or mixed together at will.

Phase 2

Themed by car, electric parts are taken in to enable the robot more functions with simple programming.

Phase 3

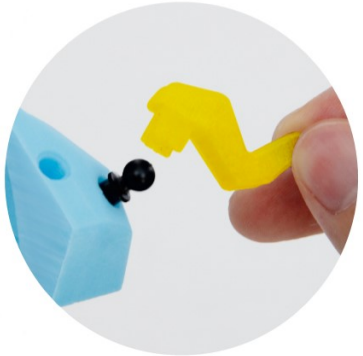
Emulating the construction equipment, cranks, sliders and other mechanical parts are added to realize more complex functions.

Phase 4

Advanced application of the combination of programming and mechanics is employed to realize a bunch of biomechanical animal and many other.

Phase 1 Parasaurolophus

Pin Connection



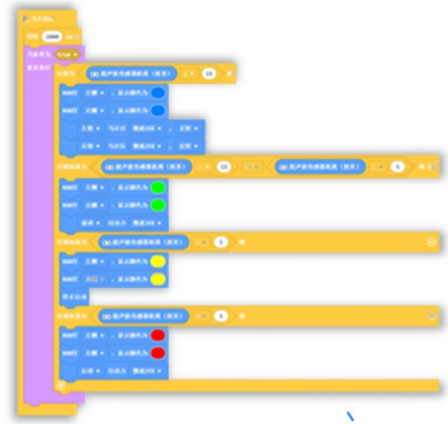
Ball Connection

Control to play

Focusing on the look and its construction.

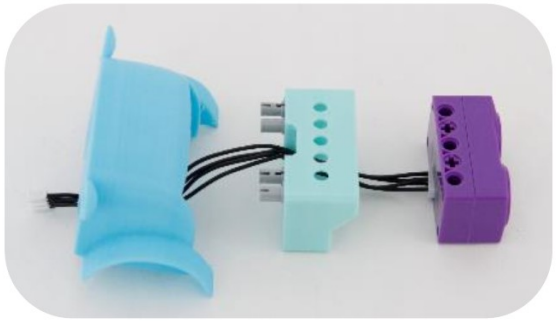
Phase 2 Auto-Avoid Car

Electric modules added



Automatically avoid obstacles

Easy programming and the use of electric modules enable kids to control the robot.



An additional part to mount the sensor

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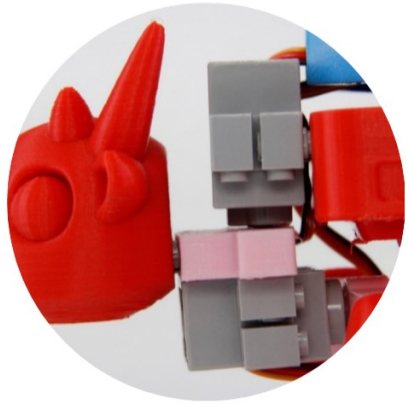
Phase 3 Wheel Loader

Linkage system driven by servomotors

Advanced program

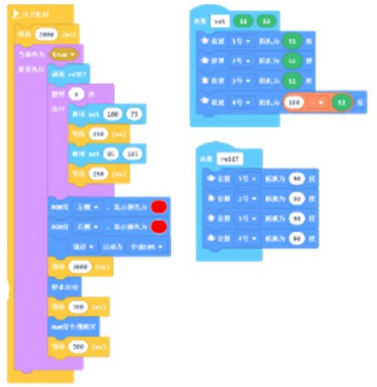
An increased number of parts in building reveals the mechanical system to kids.

Phase 4 Fiery Dragon



Moving pivots enable biomimetic motion

Fits LEGO parts and any other!



Branches of program used

Multiple mechanisms bring the creature alive

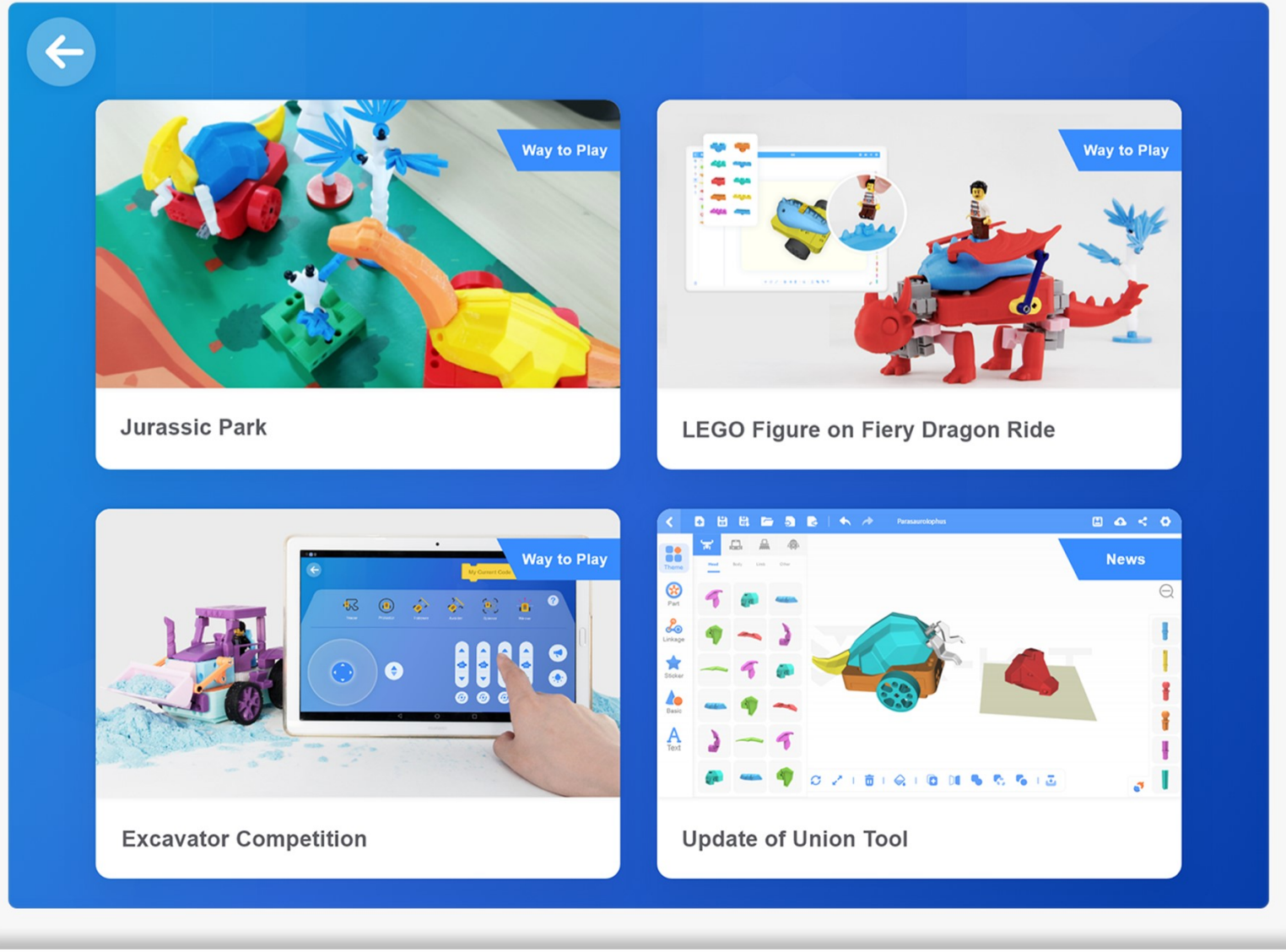
The comprehensive application of all elements and knowledge met before.

More challenging and fun robots keep coming!

X-KIT

Explore

Newest ways to play, techniques to apply, news from the company can all be found in here.



X-KIT

Specification

Software

Windows / iOS / Android
3D Modeling / Coding
Online Printing

Hardware

X-KIT Hub / Accessory
Servomotors / Sensors
USB / Bluetooth connection

Specification

X-KIT Hub

The Box

The Hub ×1

Servomotor ×4

Sensor ×1

Buzzer ×1

Wheels ×2

Tires ×8

Plier ×1

Long Pin ×1

Axle Pin ×1

Ball Axle ×1

Pin ×1

Ball Pin ×1

Axle ×1

Quick Guide ×1

Map ×1

USB ×1

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Make Creativity Touchable.