

Quirkbot Robotic Creatures Kit

SKU 110060487



Description



Quirkbot is a little character you can program.

It's easy to make different shapes and forms: Funny Robots, Toys, Artworks and Much more! Use the included Strawbees construction set with LEDs, Motors and Sensors to realize your own creations and ideas.

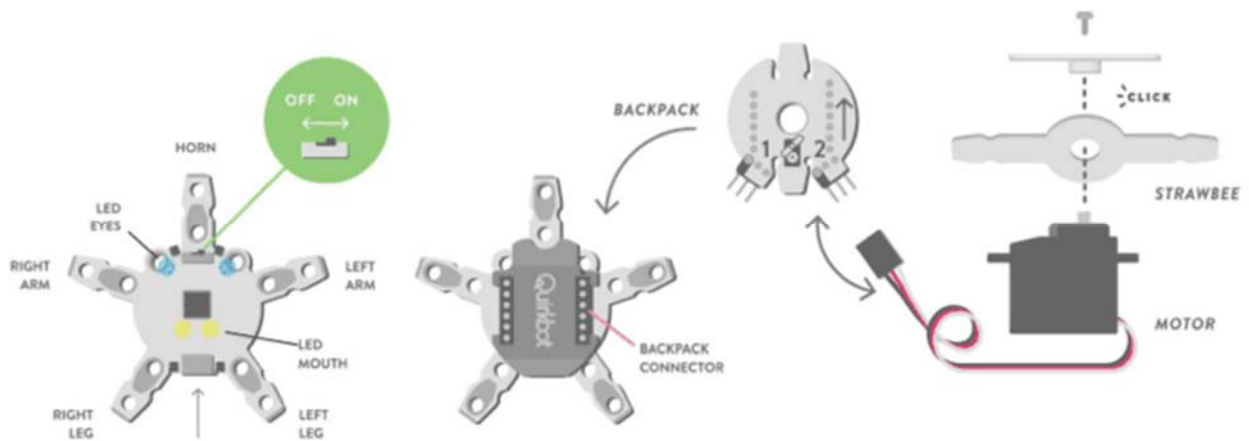
Quirkbot Robotic Creatures Kit has everything you need to get started with the Ultimate maker toy.

Perfect for beginners and schools thanks to the super easy programming, electronics with no soldering and Strawbees mechanics, that will get you started in minutes.

Made for Educators, Maker parents and kids of all ages (recommended for 8 years and up) Check out quirkbot.com for latest info.

Easy to get started!

The Electronics of the Quirkbot has been designed so that it is intuitive to remember the names of the different parts. This makes it easy to talk about, and refer to when programming the different functions.



LED AND SENSOR

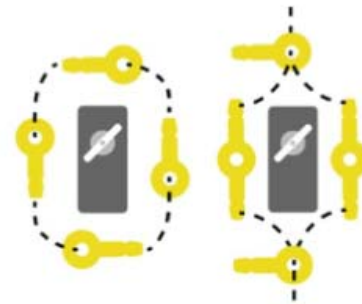
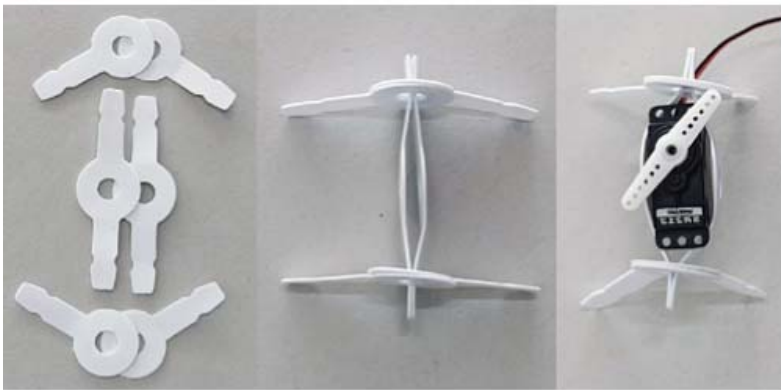
LEDs and Light Sensors fit on the horn, legs and arms and are held in place with a straw over it. When putting on an LED, be sure that the long pin of the LED is on the **FRONT** of the Quirkbot so it can reach and connect with that metallic surface.

SERVO BACKPACK

The backpack connects on the back of the Quirkbot and the motor connects to one of the slots on the backpack. The uppermost pin on the backpack will fit into an open slot on the right side of the battery cover, make sure it's placed right! Also make sure to align the black marking on the backpack slot to the black (or the darker) cable of your servo.

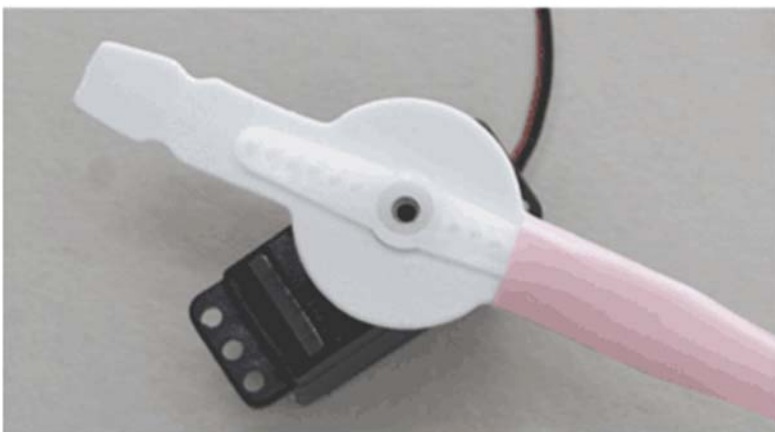
SERVO MOUNTS

To fasten the Servo Mount in your construction, here are two examples of how to wrap and connect Strawbees and creating a Servo Mount. You can add more Strawbees connected to each other to increase the friction and pull their legs through the holes to tighten the Servo Mounts.



ATTACHING A STRAW TO THE SERVO HORN

When putting a straw on the Strawbees on the servo motor arm, make sure to slide it over both the Strawbees and the motor arm itself.



CHARGING

Quirkbot has its own rechargeable battery. The battery starts charging when the USB cable is connected to a computer or other power sources like a phone charger.

GET HELP

There will always be someone helpful to answer any question you have at the forum: forum.quirkbot.com. Please don't hesitate to ask!



Quirkbot is easy to code directly from the web with a graphical language. To program the Quirkbot you first go to code.quirkbot.com. When you have created an account you can start creating and uploading code to your Quirkbot.

GOT TO CODE

1.UPLOAD CODE

First time you try to upload, the interface will install a small plugin in your browser, and on a Windows computer you will have to install drivers. The interface will guide you through how to do it.

2.CREATING CODE

You create new code in the Quirkbot by connecting nodes together and changing the values of them. Here is how you do some basic things:

2.1 ADD & DELETE NODES

By dragging and dropping into your program, and press the X to get rid of them.

2.2 CONNECT & DISCONNECT THE NODES

The connections makes a continuous stream of data go from one node to the other.

2.3 CHOOSE PLACE

All Nodes that control some external part like an LED or Servo Motor needs ti know where that part is placed.

2.4 CHOOSE PLACE

SAVE YOUR CODE AND GIVE IT A NAME

When you do this the code will automatically get a web address. If you want to share your code just share this address, Don't worry, none but you can change it. If someone shares code with you and you want to make your own copy, press Clone CODE. This is now your code and you can make any changes.

2.5 CHANGE VALUE

By dragging the slider or type in the value directly.

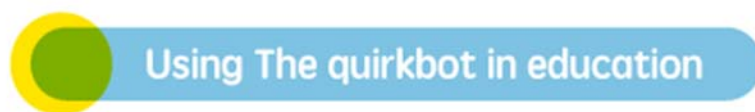
3. ATTACHING LEDS AND LIGHT SENSORS

DOCUMENTATION FOR THE NODES

The Nodes Documentation is starting to take shape and will soon have more useful examples. Dig in deeper there if you want to read up on specific nodes and how they function.

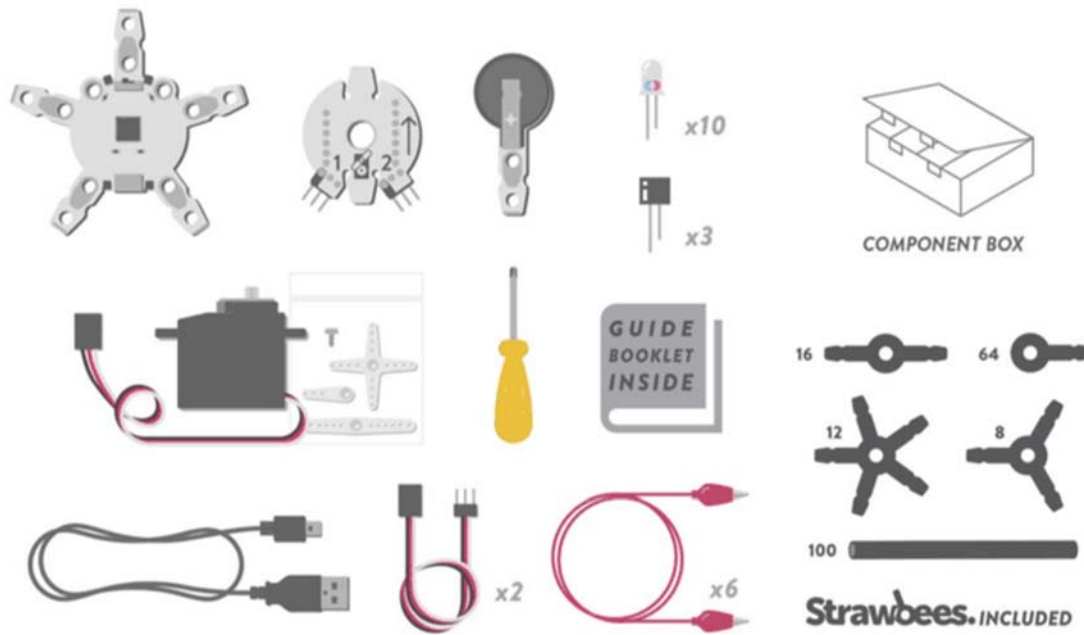
THE FORUM

Check out the Quirkbot Forum! Don't be afraid to ask us any question.



The Quirkbot and Strawbees system had been developed together with educators to meet their growing interest for maker education and the need for creativity and programming in the classroom. Through many workshops around the world with Kids Hack Day and other close partners we have figured out some key success factors and demands that a maker tool needs to have in an Educational setting. The Quirkbot significantly lowers many existing barriers and completely eliminate others, while still remaining a very open system. This helps the kids and teachers that feels less confident with new tech to really flourish, while not limiting the natural nerds and hackers in a group. It also promotes group learning and sharing. We are continuously developing educational materials and an Educator's Guide is available as a free download on our website. Quirkbot.com

What 's in the box



1x**Quirkbot Board**: Programmable toy that connects to electronics and Strawbees.

1x**Motor Backpack**: For connecting the Servo Motor to the Quirkbot.

1x**Servo Motor 120°**: This motor can move 120 degrees.

1x**Small Strawbees pack**: For building structures with drinking straws and cardboard.

1x**Straws pack (50 straws)**: Flexible building material.

1x**Electric Strawbee**: To light up your structure and have fun with the light sensor.

1x**USB Cable**: For charging and programming.

1x**Servo Extension Cable**: To move things further away from the Quirkbot.

1x **Plastic Component Box**: To keep all the components tidy.

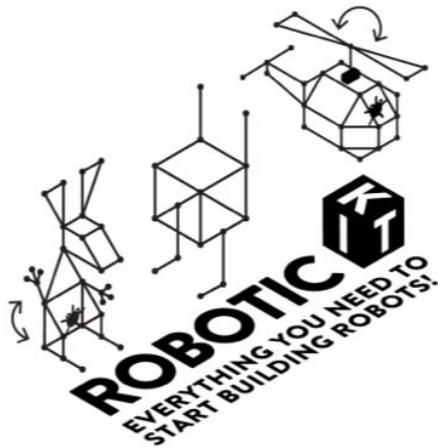
1x**Guide Booklet**: With clear pictures and text to get you started.

3x **Light Sensor**: Sensing light for fun interaction.

6x **Alligator Clips**: For Touch functions and many other things.

10x **Dual Color LEDs**: Lights with 2 colors that you can attach to the Quirkbot.

Sticker



Technical Details

Dimensions	300mm x 245mm x 50mm
Weight	G.W 683.5g N.W 683.5g
Battery	Exclude

Part List

Quirkbot Board	1
Motor Backpack	1
Servo Motor 120°	1
Small Strawbees pack	1
Straws pack (50 straws)	1
Electric Strawbee	1
USB Cable	1

Servo Extension Cable	1
Plastic Component Box	1
Guide Booklet	1
Light Sensor	3
Alligator Clips	6
Dual Color LEDs	10