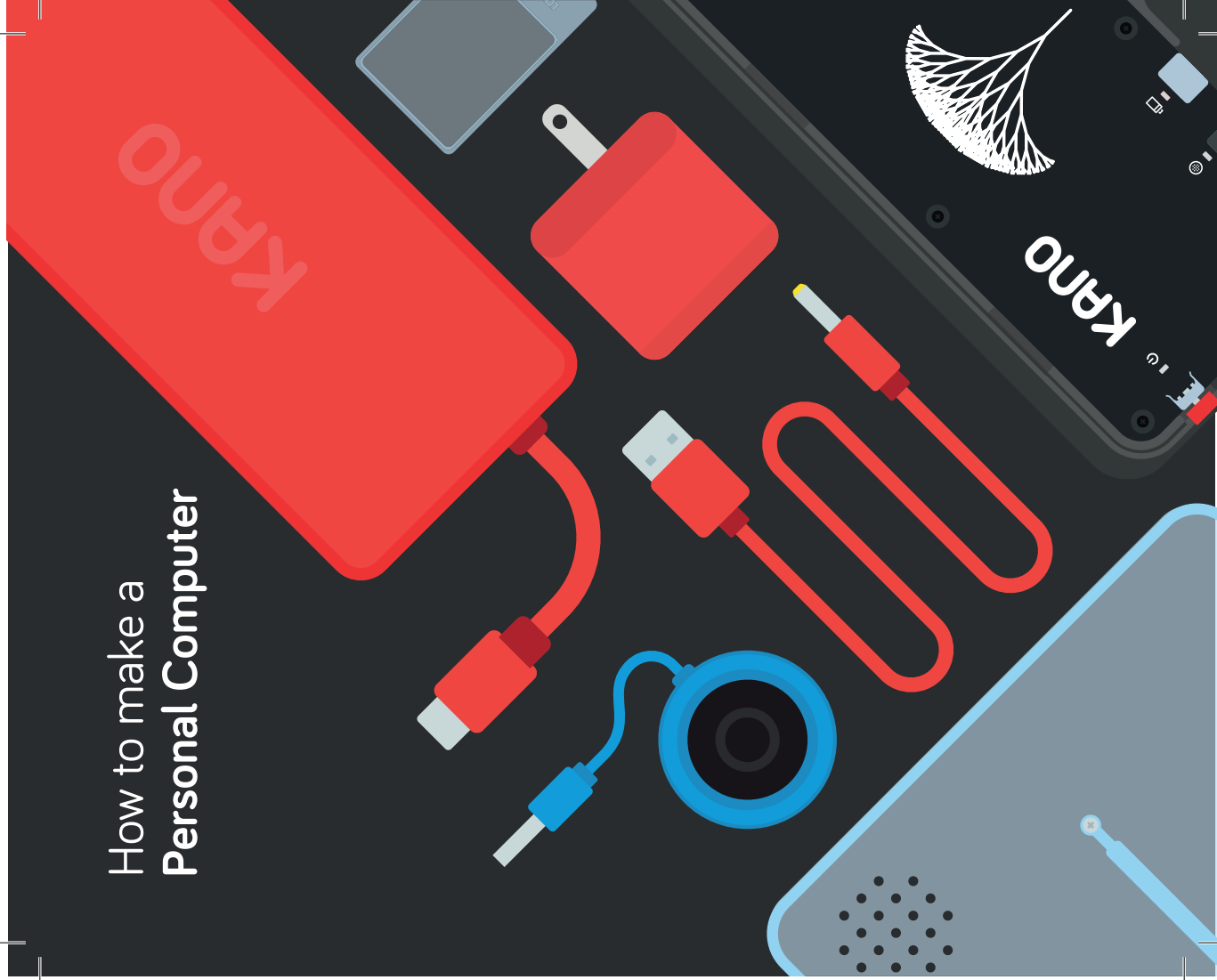


How to make a Personal Computer





SAFETY FIRST

For your safety, and to avoid damaging your computer, make sure you read all the instructions before you begin.

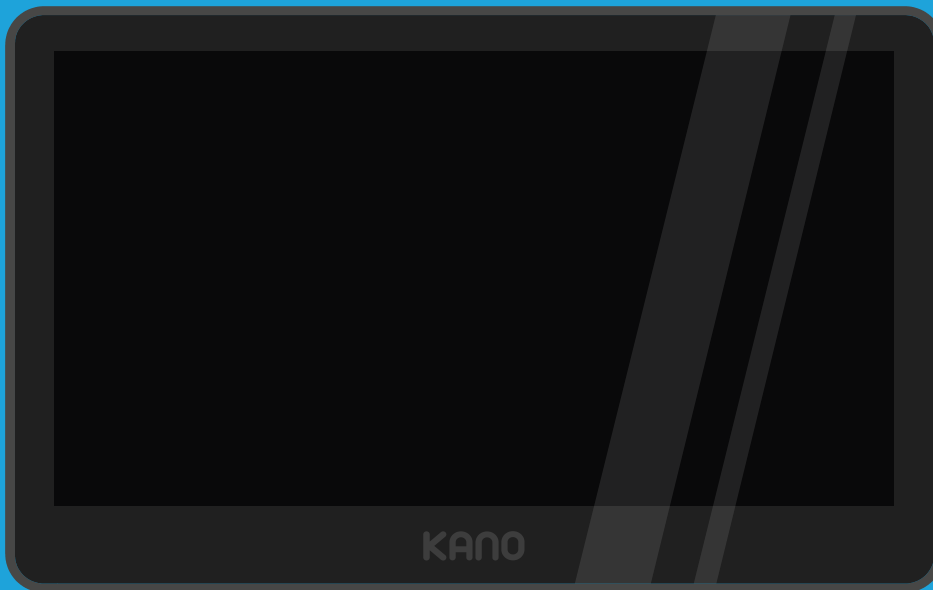
- Never touch the heat sink because it can get hot!
- Only use the battery and power supply unit that come with this computer. Using a different battery or power supply unit can cause a fire or damage the computer!
- Don't charge your computer near anything that can burn, or when no one else is home!
- Do not remove or tamper with the PCB
- If you think your Kano PC might be damaged, stop using it, and visit the Kano help desk at **help.kano.me**

Now let's begin!

If you see a comment in red that looks like this, it means you have to pay attention! Follow the instructions to avoid getting hurt, or damaging your computer

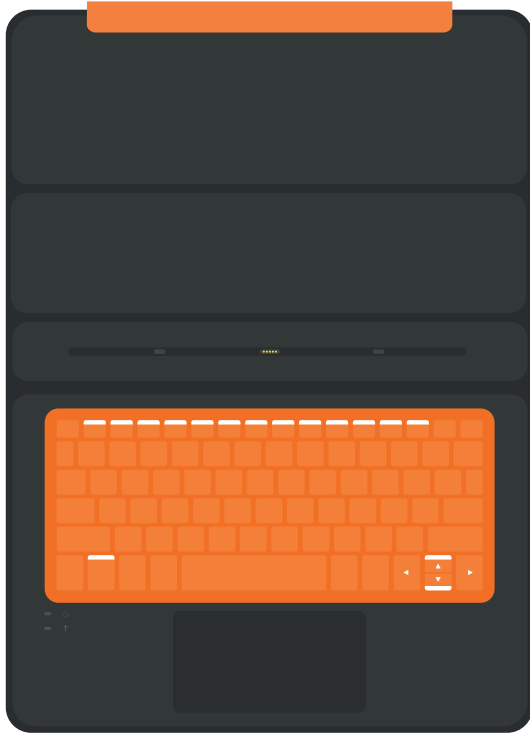


Take out the pieces!

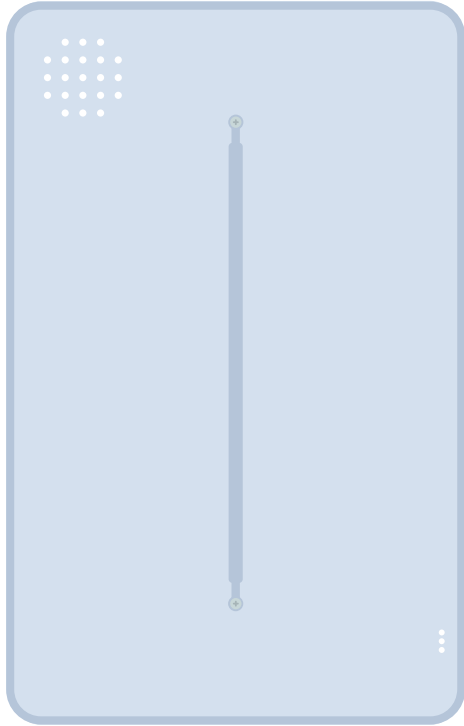


Screen + Printed Circuit Board

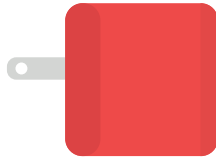
Keyboard + Sleeve



Case



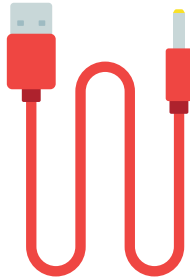
Power Supply Unit



Battery



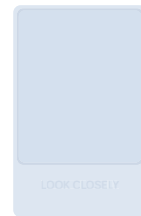
Power Cable



Speaker



Magnifying Glass

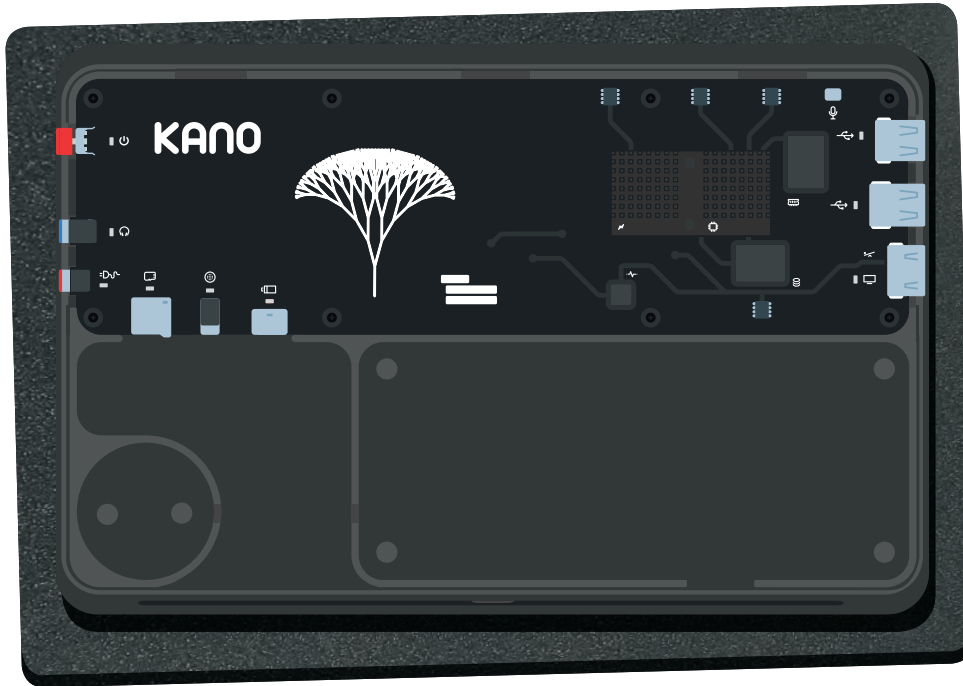


Pick up the touch screen



The front has over 1,000,000 pixels!

Lay it screen-down onto the black foam sheet



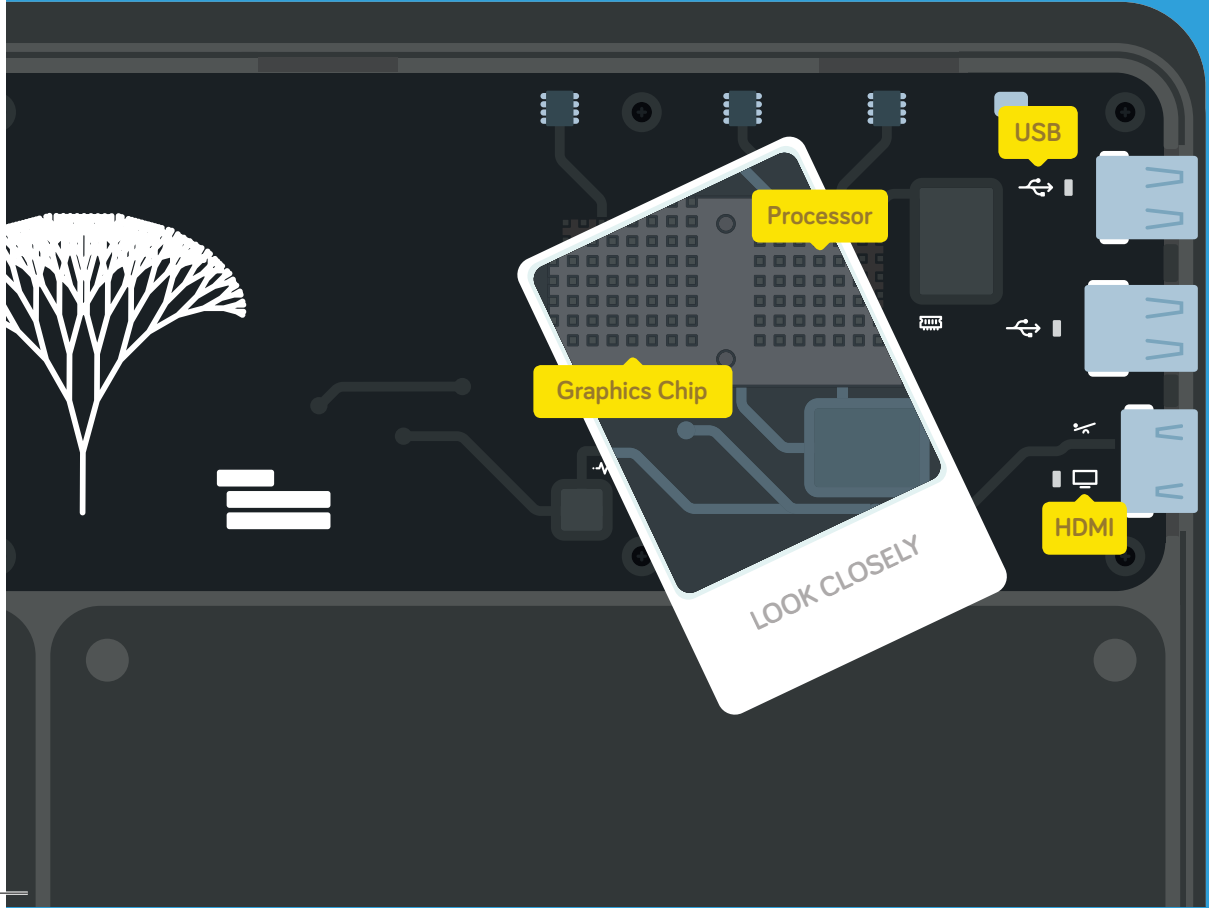
The back has a Printed Circuit Board, or PCB

Use your magnifying glass
to have a peek inside



LOOK CLOSELY





Graphics Chip

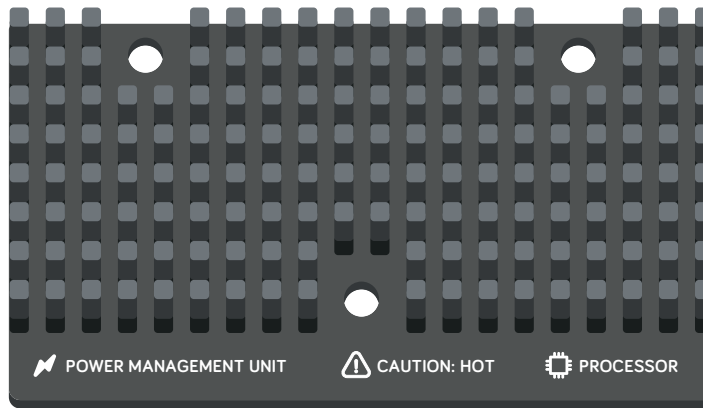
Processor

USB


HDMI

LOOK CLOSELY

This part is called a heat sink

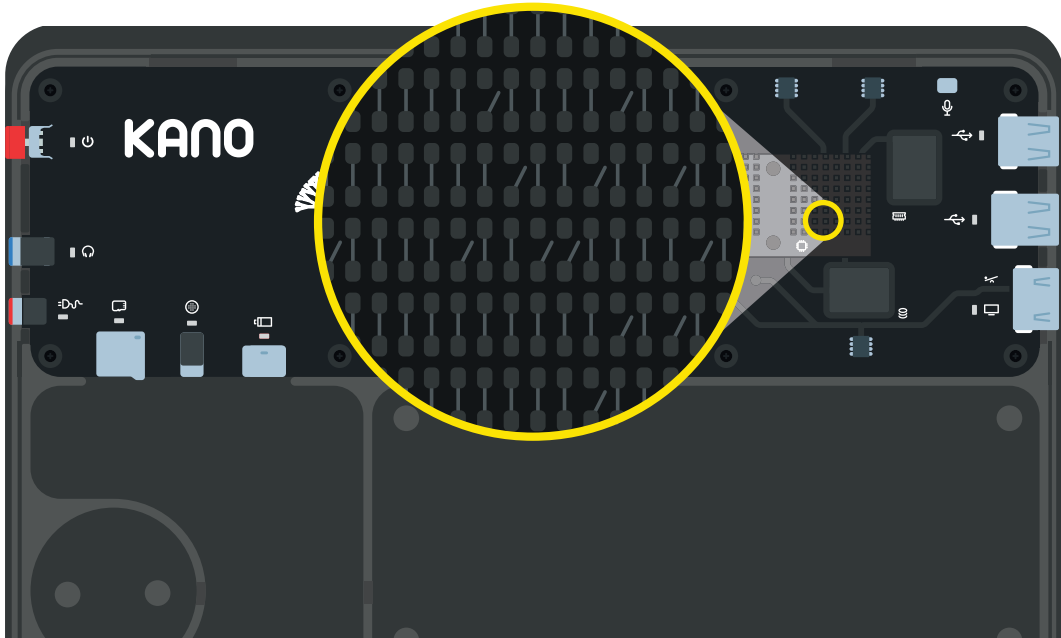


It protects 2 very important chips from over-heating

 Be sure not to touch this as it can get hot!

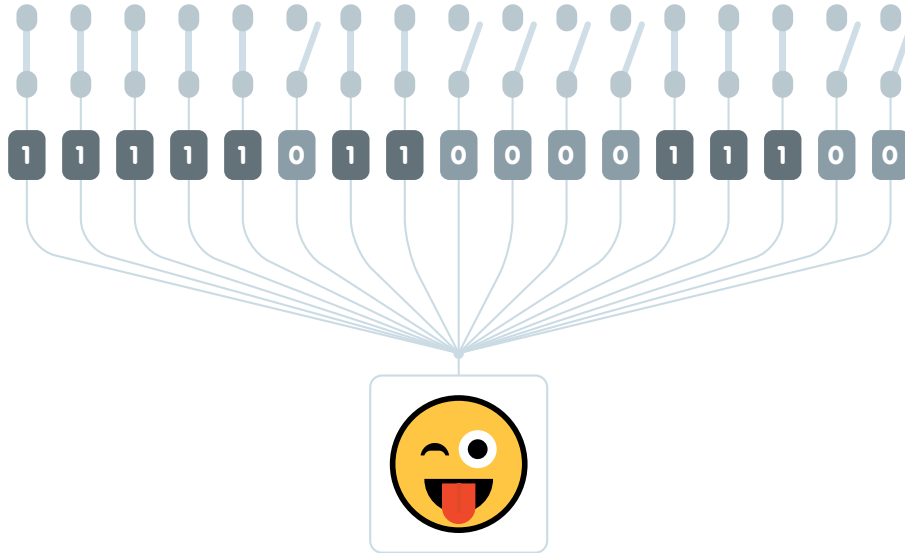


How does your computer think?



Inside are billions of electric switches

If a switch is on, that means 1. If it's off, that means 0



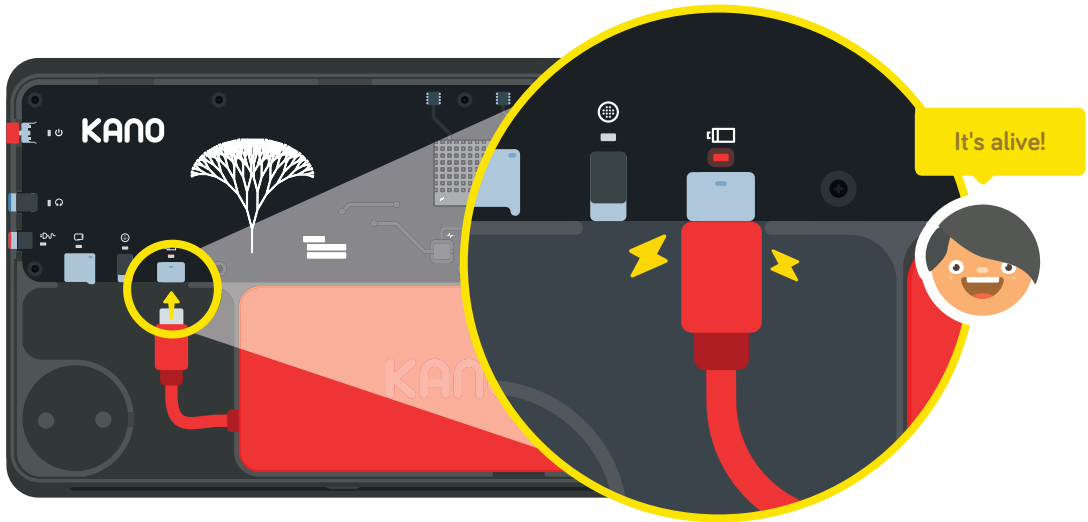
Your computer turns specific sequences of 0s and 1s - called binary code - into words, pictures, and logical rules

Let's give your computer some power



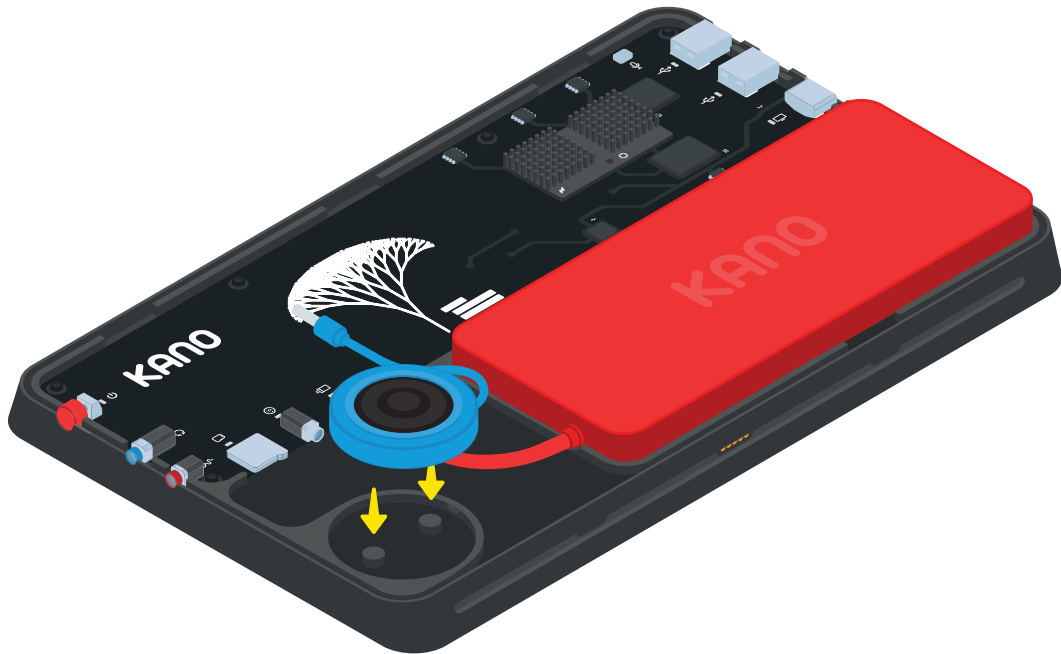
Take the battery, and push it onto the screen

Plug in the red cable, the battery LED will come on



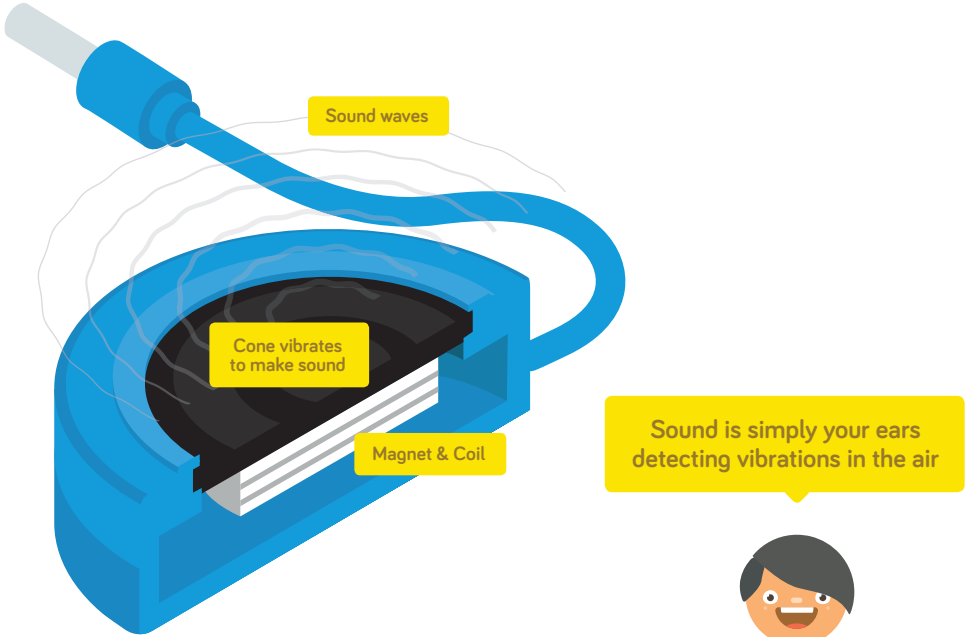
Electricity is now flowing from the battery into your computer!

Time to give your computer a voice



Grab the speaker, and push it onto the screen

On the outside we can see a black membrane



but inside is a magnet, and space for air

Plug in the audio cable



The light will come on to show it's connected



The cable sends signals to your speaker and they vibrate the magnet, membrane, and the air inside

Pick up the clear case

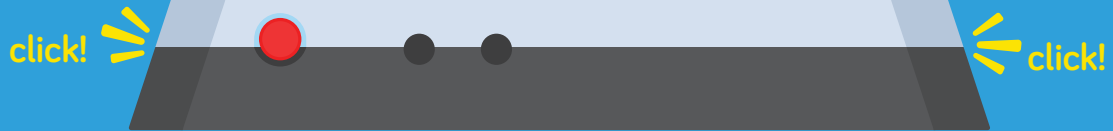
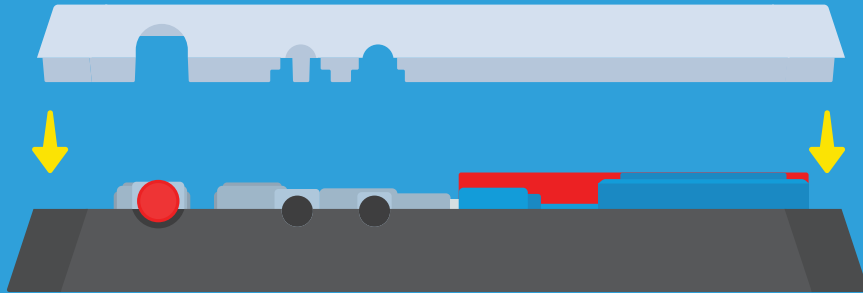


The small holes let the sound from the speaker out



Hold it above the screen

Line up the grooves and push the edges into place



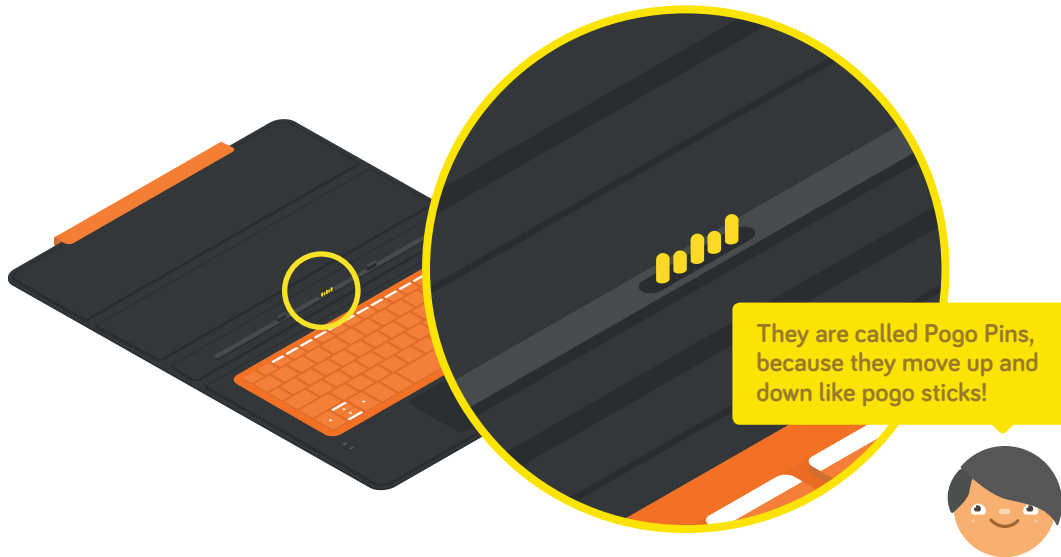
Make sure the case is snug and secure

You need a way to control your computer



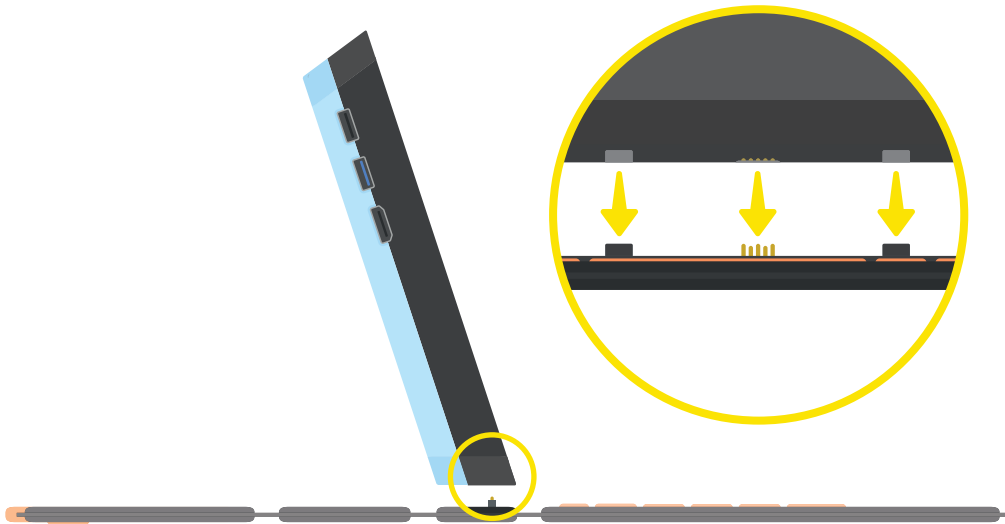
Flatten out the keyboard

See the pins? They draw electricity from your computer to power the keyboard



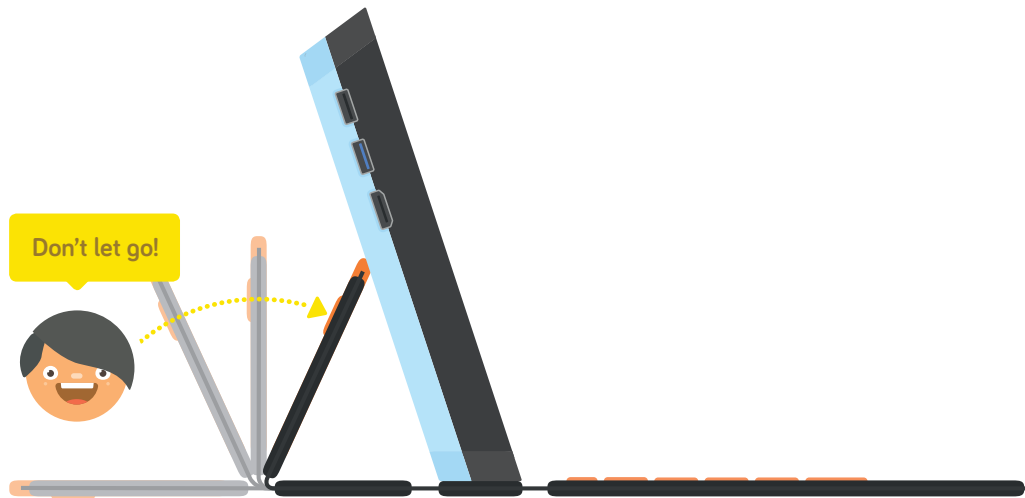
and send your commands from the keyboard to your computer

Place your computer onto the Pogo Pins



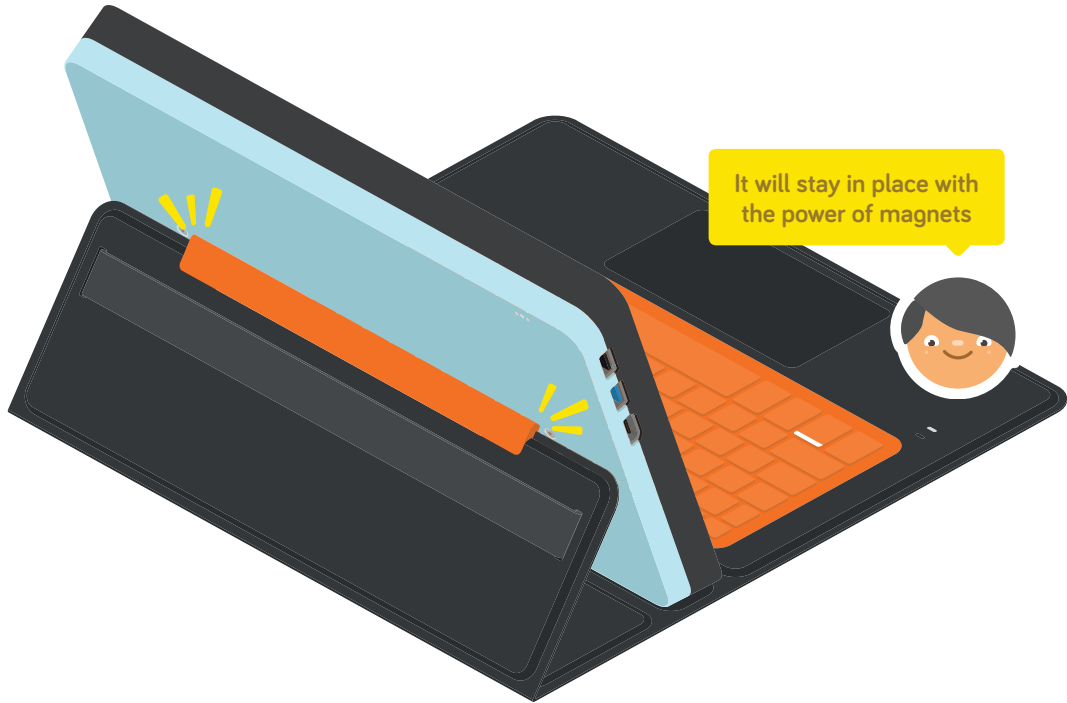
Can you feel the magnetic pull?

Hold the screen in place...



then lift the back of the keyboard

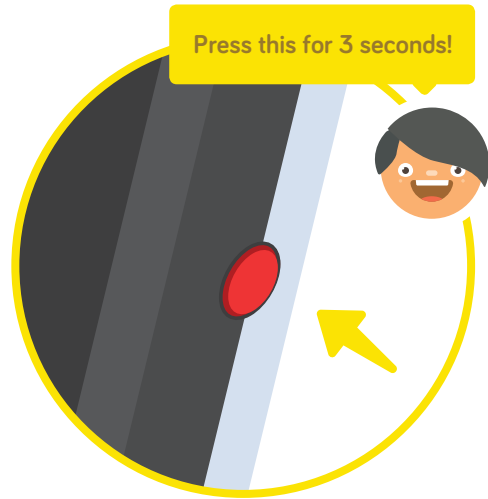
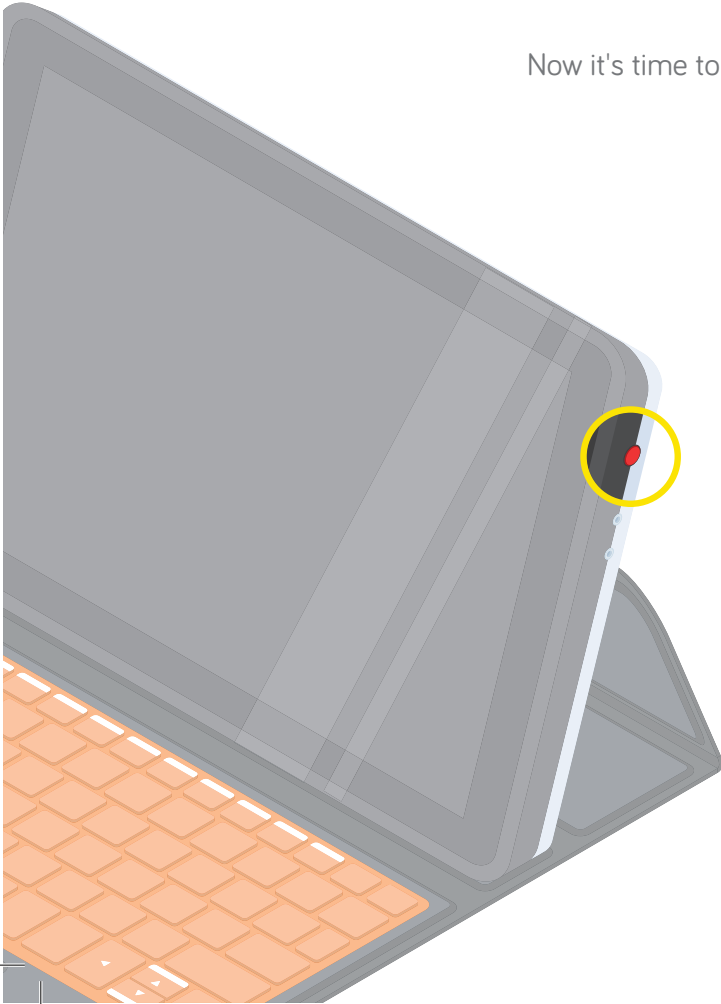
Slot the orange piece into the groove in the clear case



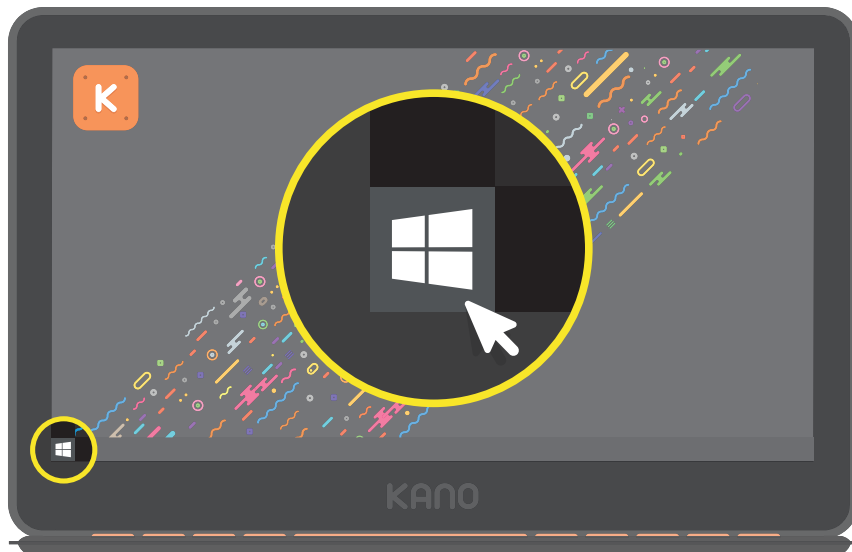
Congratulations! You've built your computer



Now it's time to turn it on



Open the start menu

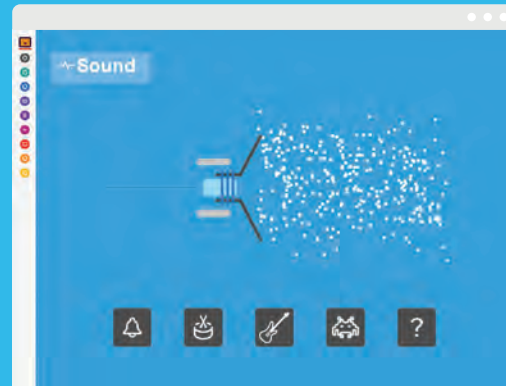
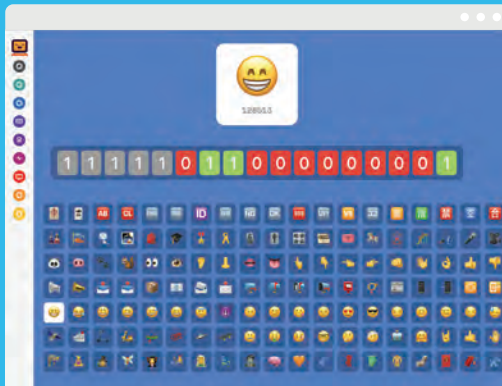


and click on 'How Computers Work'



How Computers Work

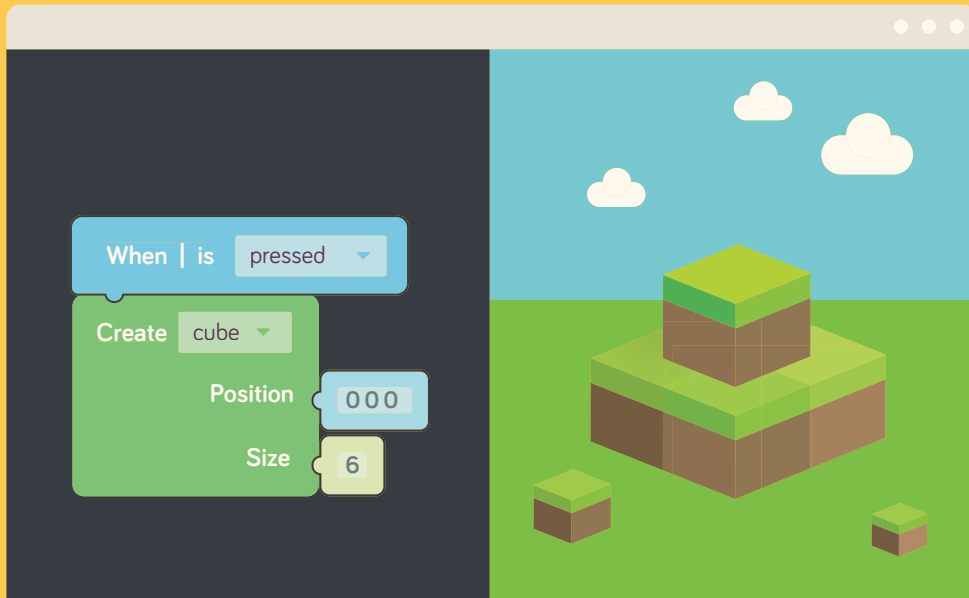
Look inside your computer, see how it works. Make emojis with binary code, tinker with touch and sound, play with the processor, and more





Kano Code

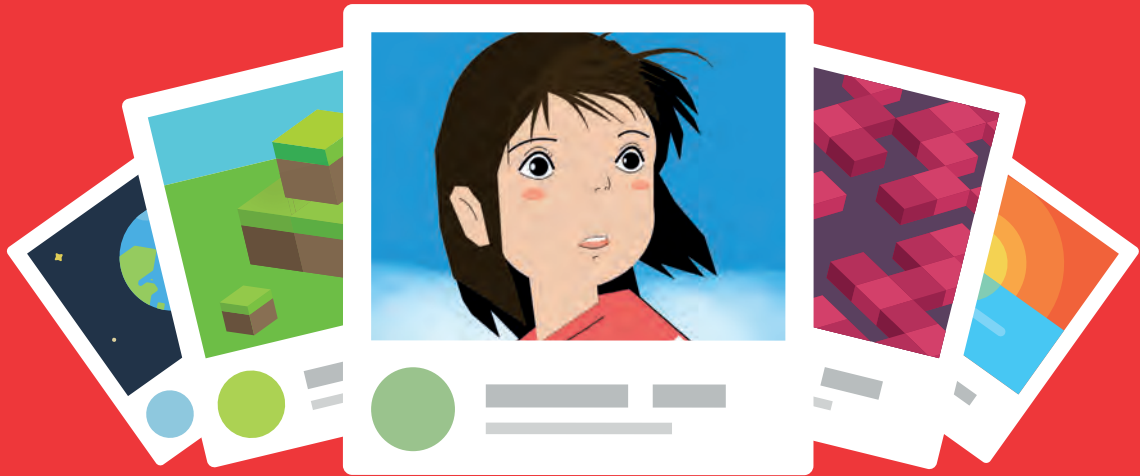
Make, learn, and play with technology. Level up and unlock coding powers.
Share your creations with the world





Make Art

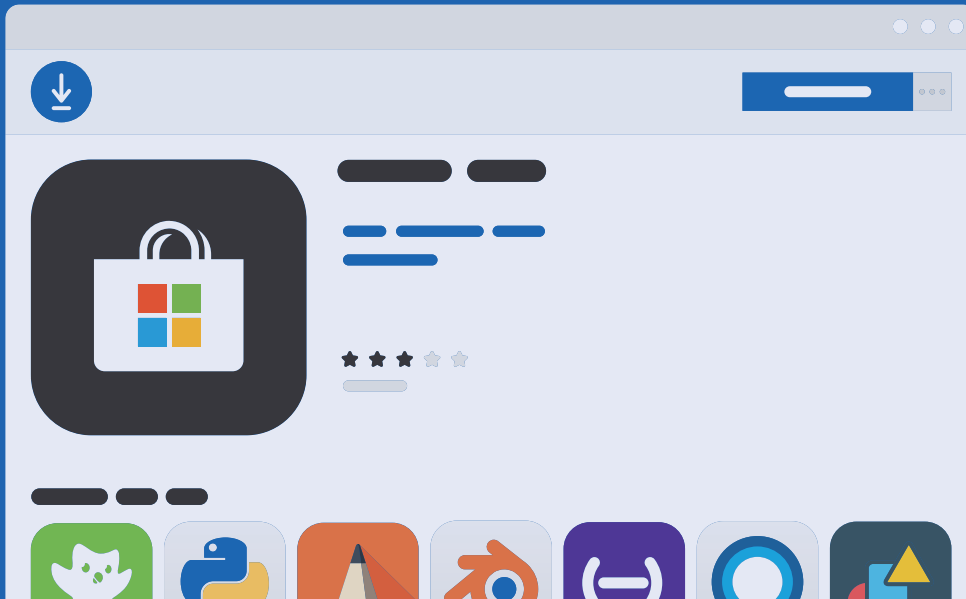
Learn to draw beautiful images with code





Microsoft Store

Download more fun and creative Windows apps for your computer from the store





Cool Things To Do



Hair



Color

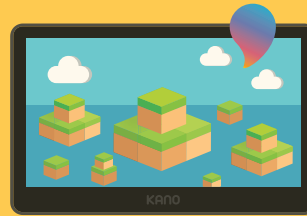


Create a custom Kano avatar



Hey Cortana

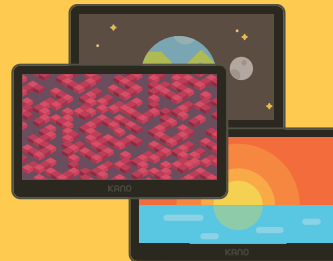
**Ask Cortana
a question**



**Make a 3D shape
in Paint3D**

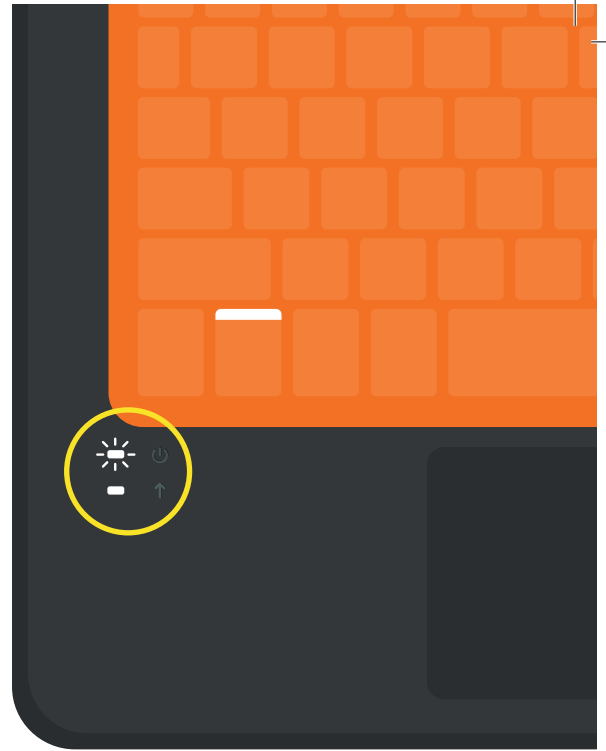
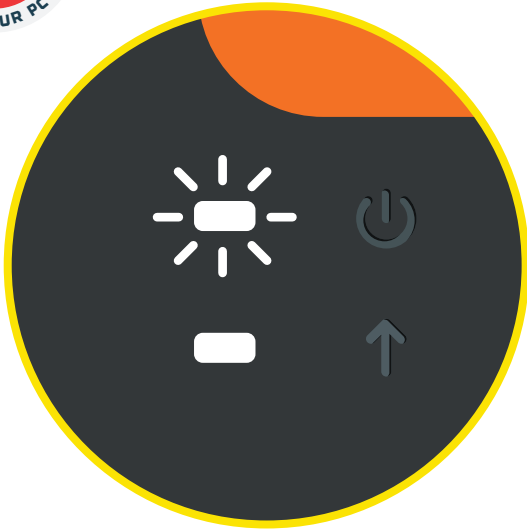


Put stickers on the case



Change wallpaper

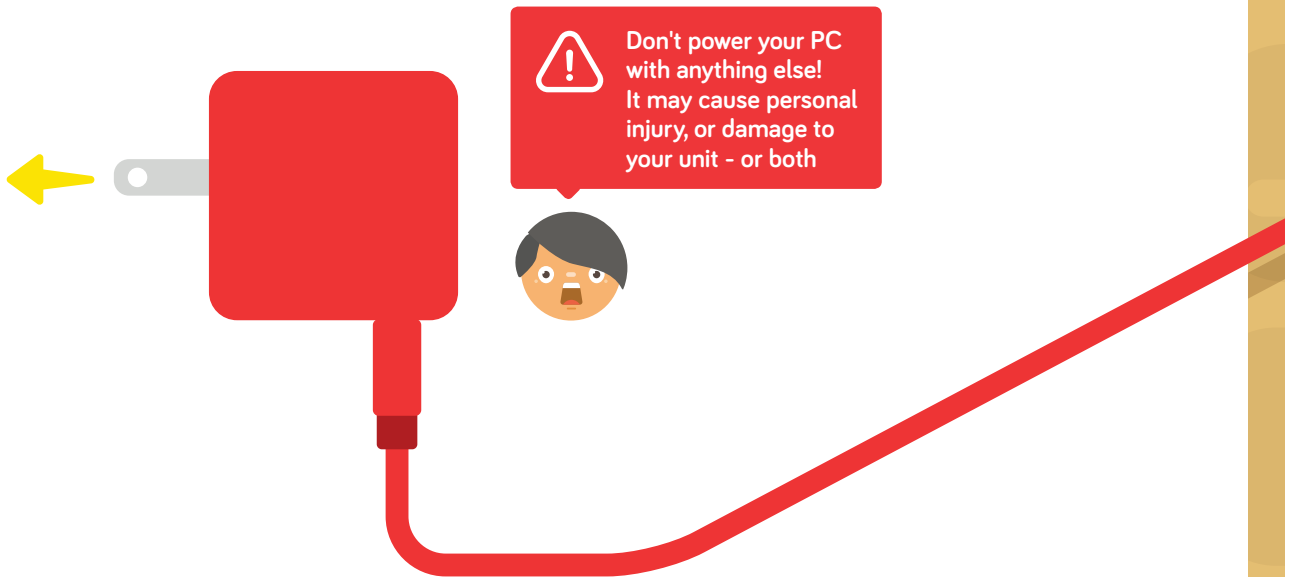


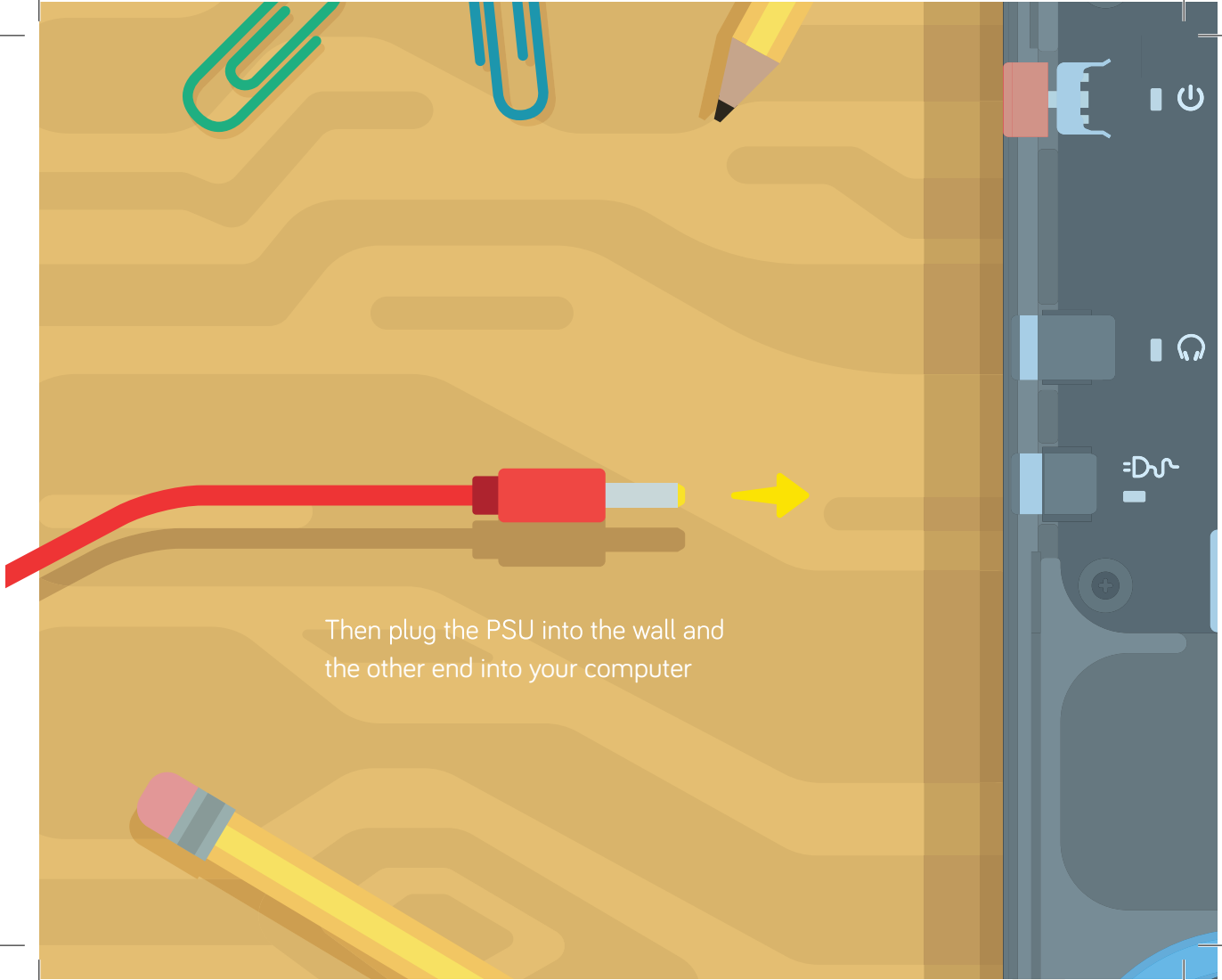


The white LED lights will tell you when your keyboard is connected and the caps lock is on



Battery power low? Charge your computer with the red PSU and the red charging cable. PSU stands for Power Supply Unit





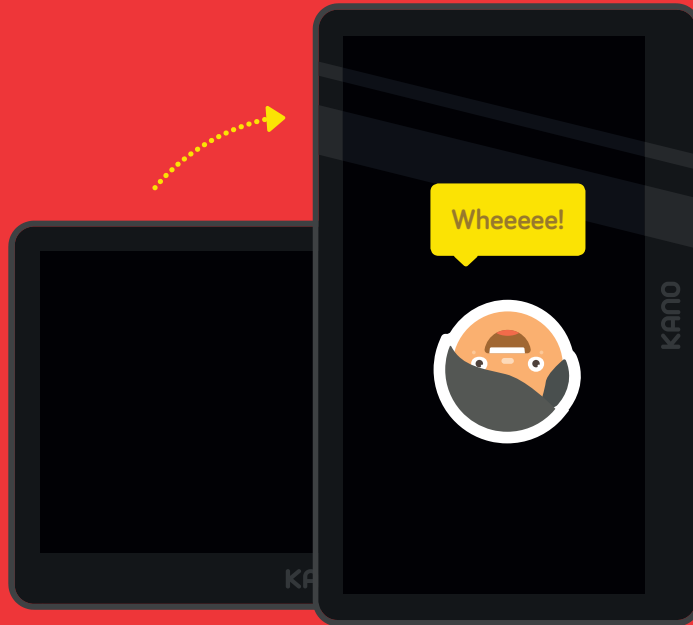
Then plug the PSU into the wall and
the other end into your computer



You can remove the touchscreen to use it without the keyboard

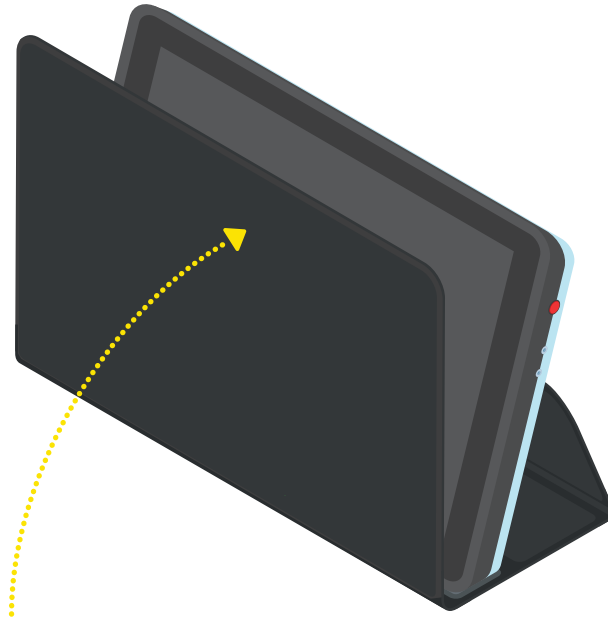


Oh, and it flips





To carry your computer, lift up the keyboard



Unfold the back stand, and cover your computer





Your keyboard has hidden powers



COPY



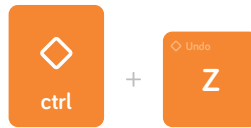
PASTE



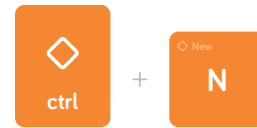
CLOSE



CUT



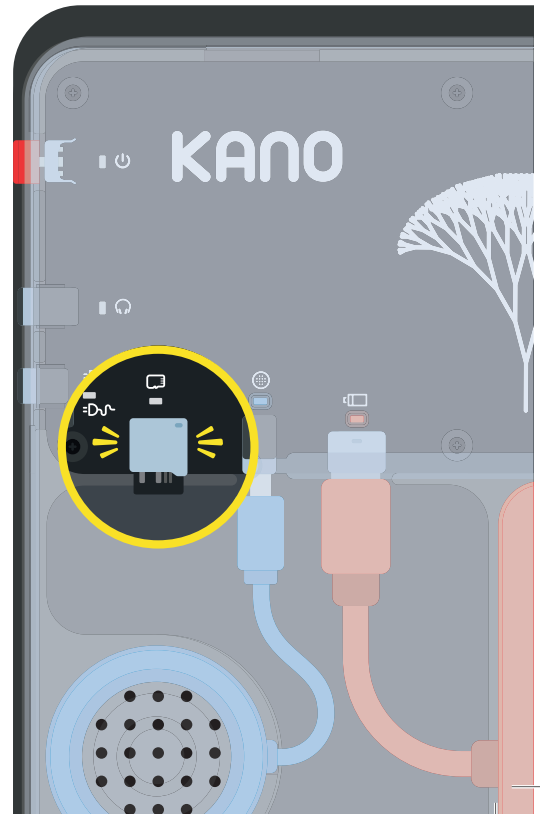
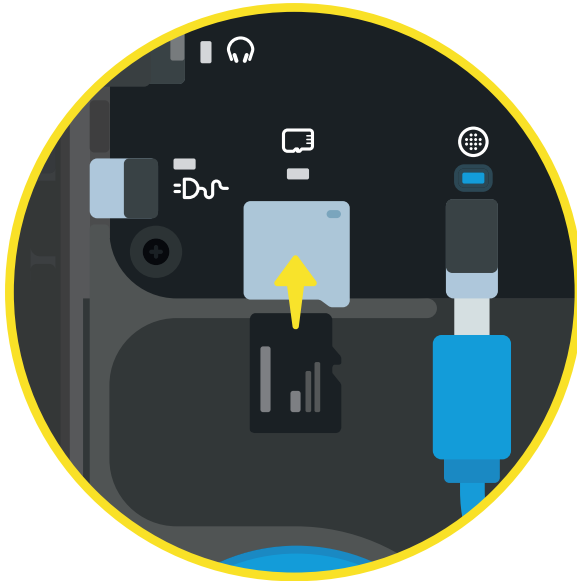
UNDO



NEW



Want to know a little secret? You can increase the memory



Something not working? Get help fast at help.kano.me



Use these help codes

Computer start-up issues	KPC2
Wi-Fi troubleshooting	KPC3
Keyboard troubleshooting	KPC4
Warranty and replacement parts	KPC5

Need help?



help.kano.me

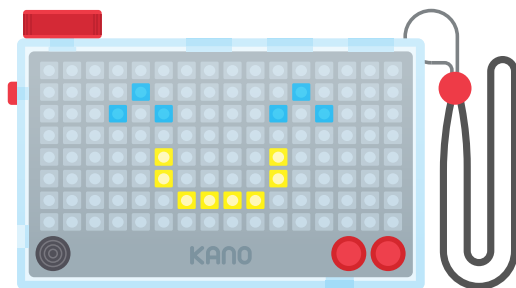
Help with anything from kits to coding

Have you played our other kits?



Harry Potter Coding Kit

Build a wand. Learn to code. Make magic



Pixel Kit

Learn to code with light



Motion Sensor Kit

Learn to code with movement

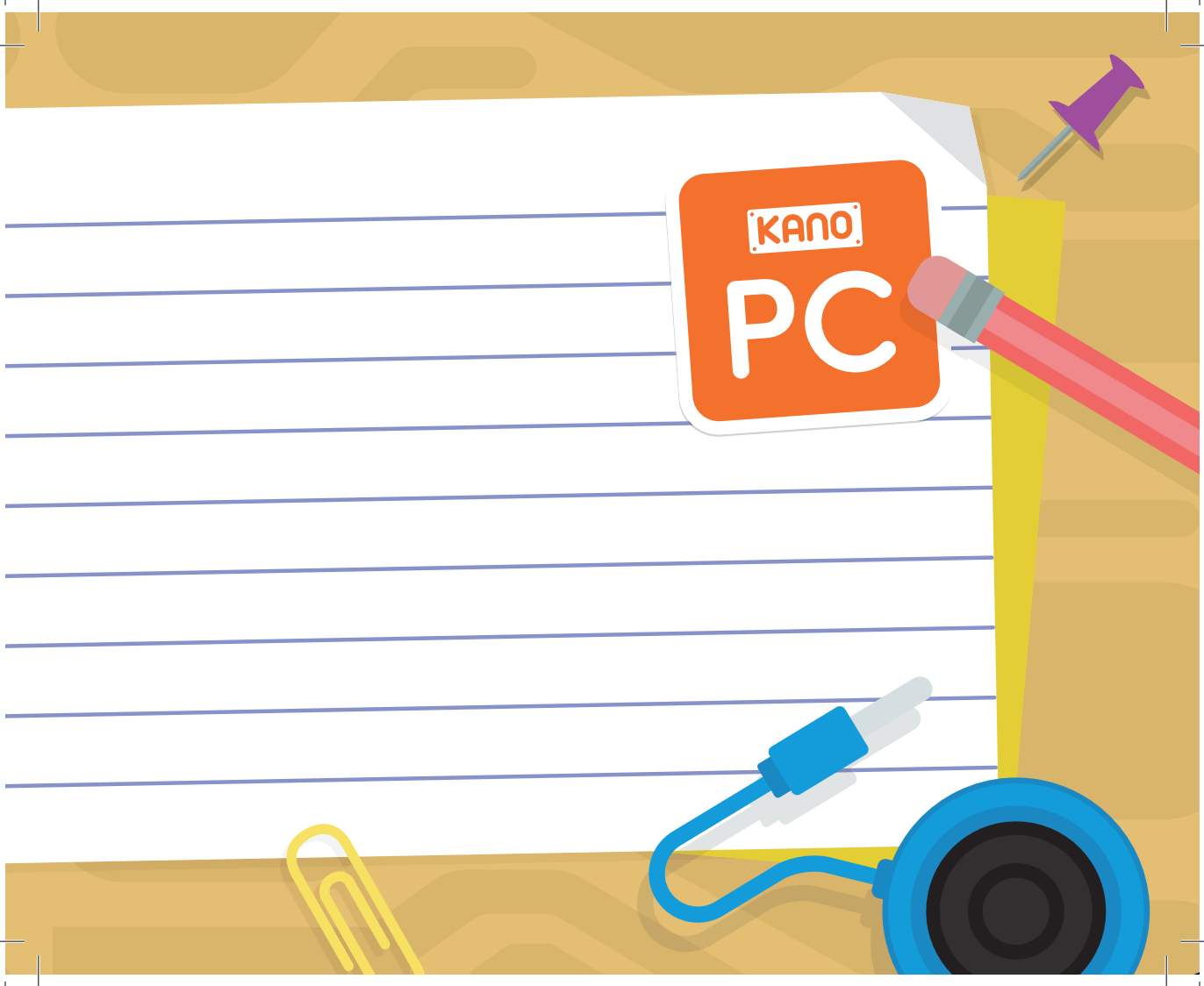


WOW

You've just built
your own PC.
Now... what are
you going to create?

LOOK CLOSELY





KANO
PC



KANO®

A Computer Anyone Can Make™
Anyone Can Make™

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ALL RIGHTS RESERVED. 19G9044-01A

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.

Any 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

SAR Statement:

This device has been tested and meets applicable limits for radio frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body and head absorbs RF energy. The SAR limit is 1.6 watts per kilogram in USA that set the limit averaged over 1 gram of tissue. This device (FCC ID:2ATYD-1100,) has been tested against this SAR limit. During testing, the device radios are set to their highest transmission levels and placed in positions that simulate uses against the body and head, with no separation, the highest SAR value reported is 0.276 W / kg. SAR information on this can be viewed on-line at <https://www.fcc.gov/oet/ea/fccid>. Please use the device FCC ID number for search. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified.

IC Caution:

English:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

French:

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

SAR Statement: This device has been tested and meets applicable limits for radio frequency (RF) exposure. The test distance of the device is 0mm. Specific Absorption Rate (SAR) refers to the rate at which the body and head absorb RF energy. The SAR limit is 1.6watts per kilogram in Canada that set the limit averaged over 1 gram of tissue. This device (IC:25240-1100) has been tested against this SAR limit. During testing, the device radios are set to their highest transmission levels and placed in positions that simulate uses against the body and head, with no separation, the highest SAR value reported is 0.276 W / kg. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified.