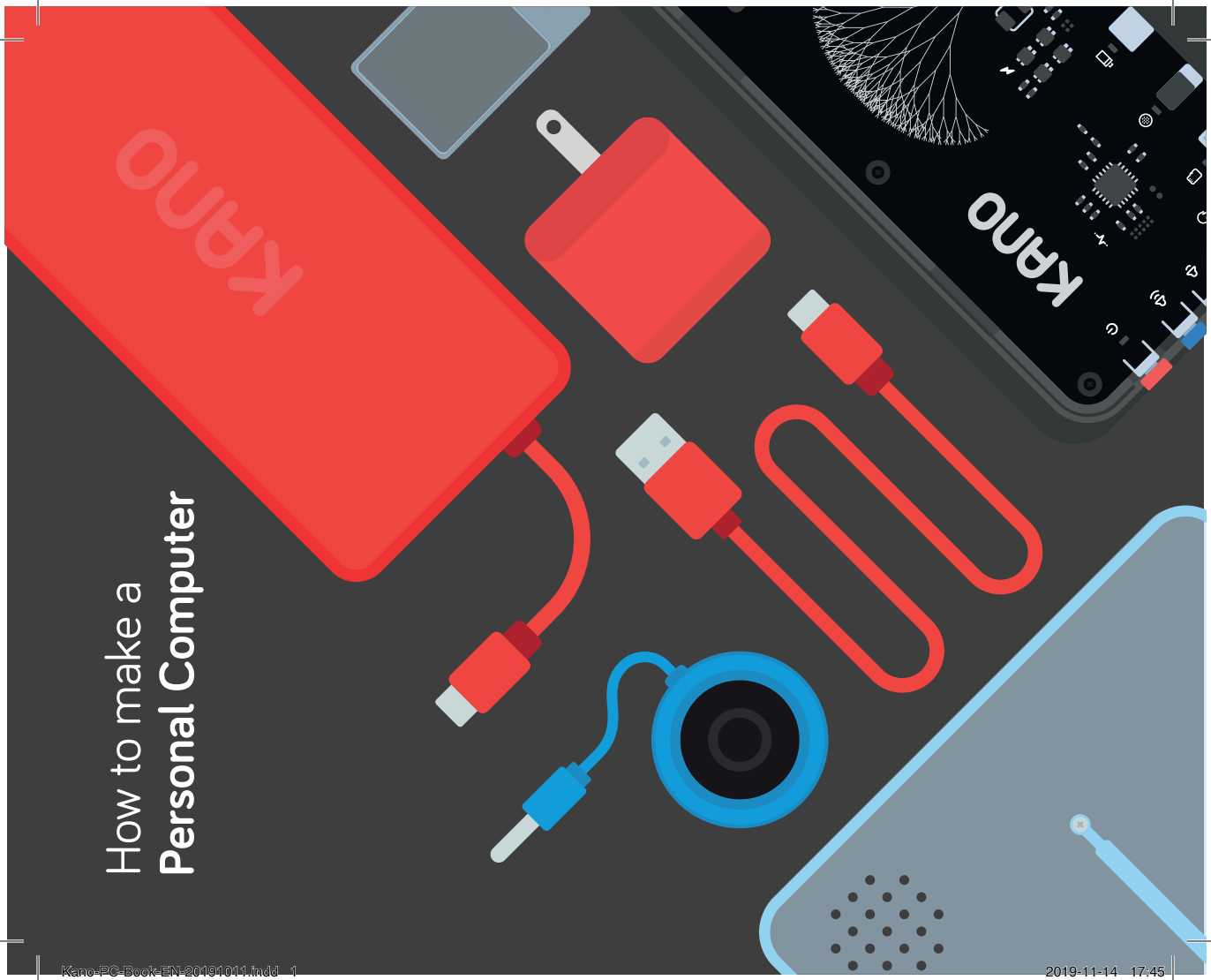


How to make a Personal Computer





SAFETY FIRST

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

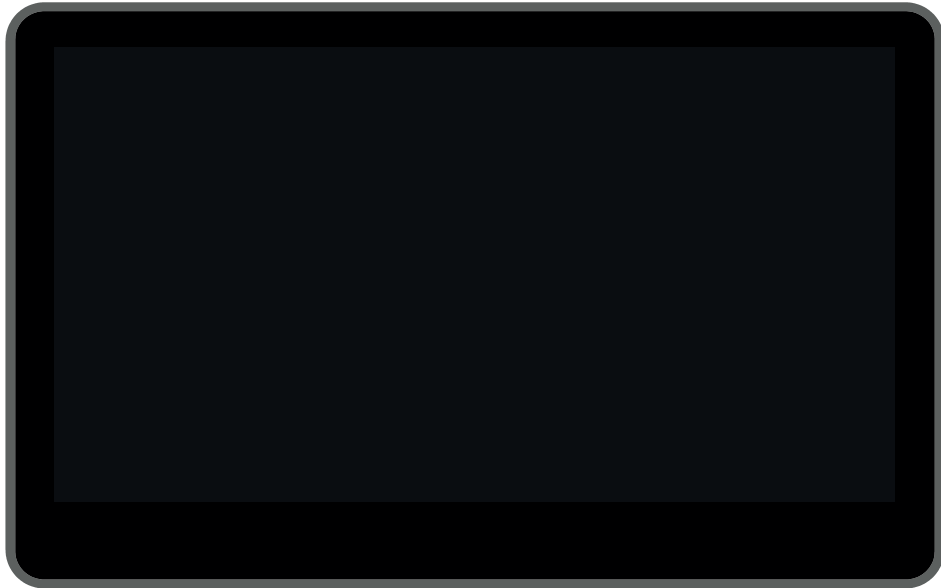
- Never touch the heat sink because it can get hot!
- Only use the battery and power supply unit that come with this computer. Using a different battery or power supply unit can cause a fire or damage the computer!
- Don't charge your computer near anything that can burn, or when no one else is home!
- 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 Center 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

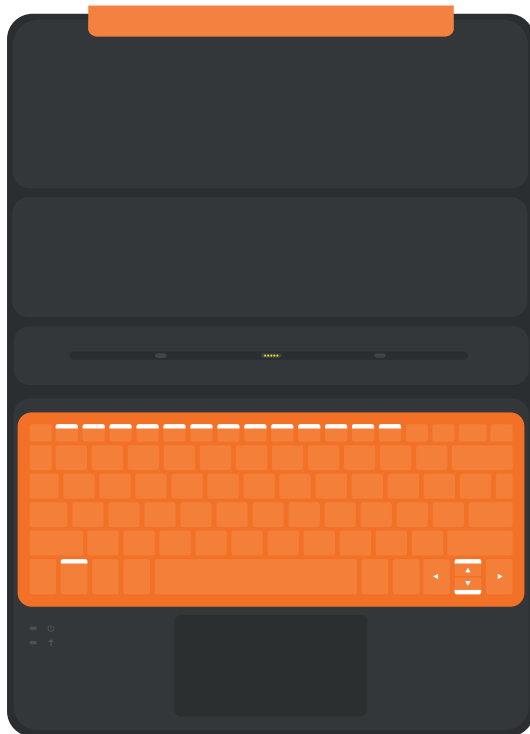


Take out the pieces!

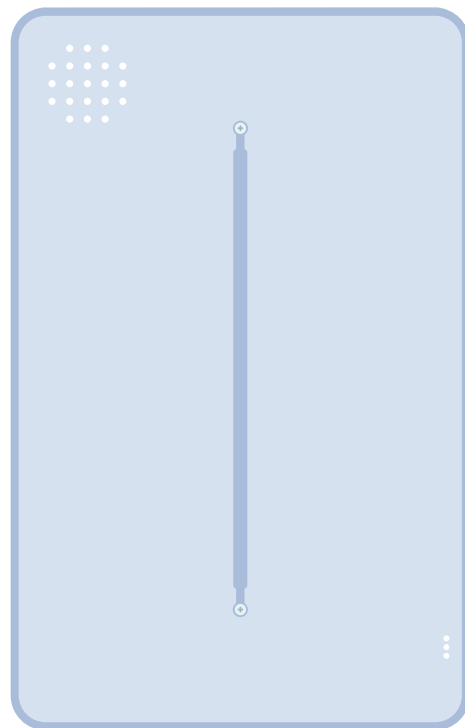


Screen + Printed Circuit Board

Keyboard + Sleeve



Case



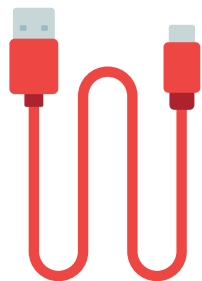
Power Supply Unit



Battery



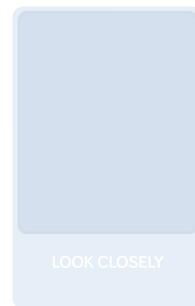
Power Cable



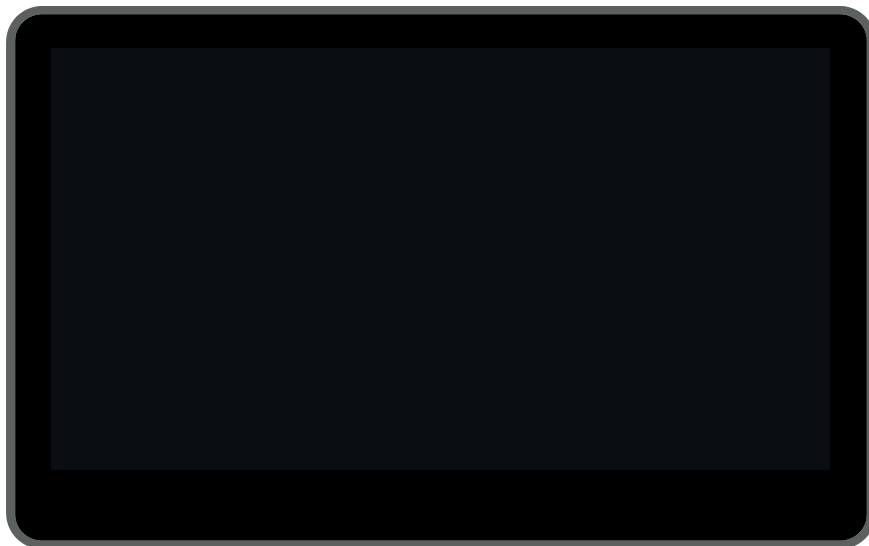
Speaker



Magnifying Glass

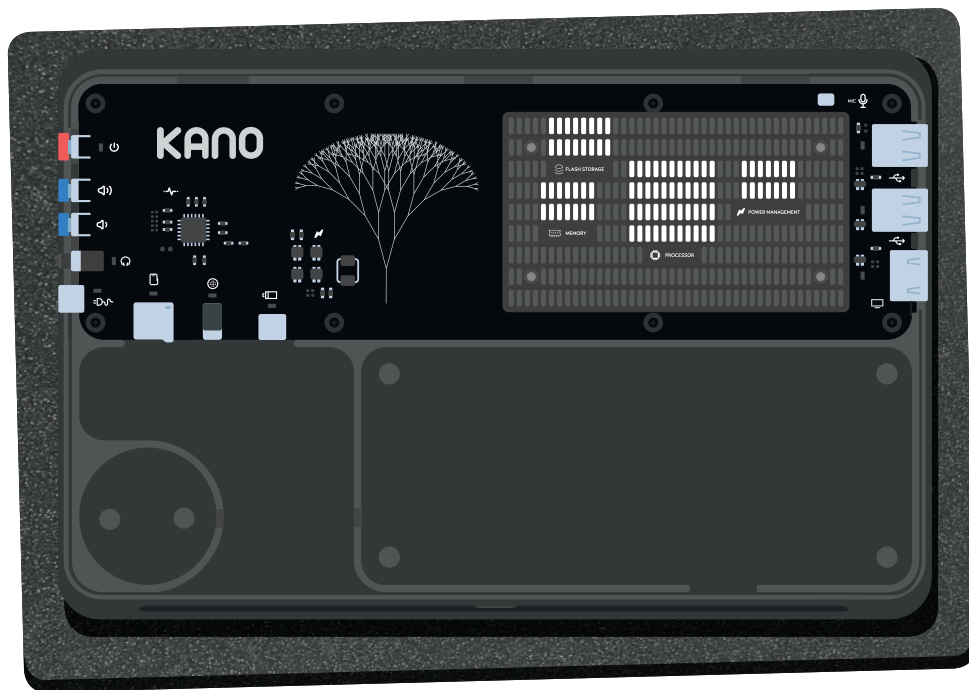


Pick up the touch screen



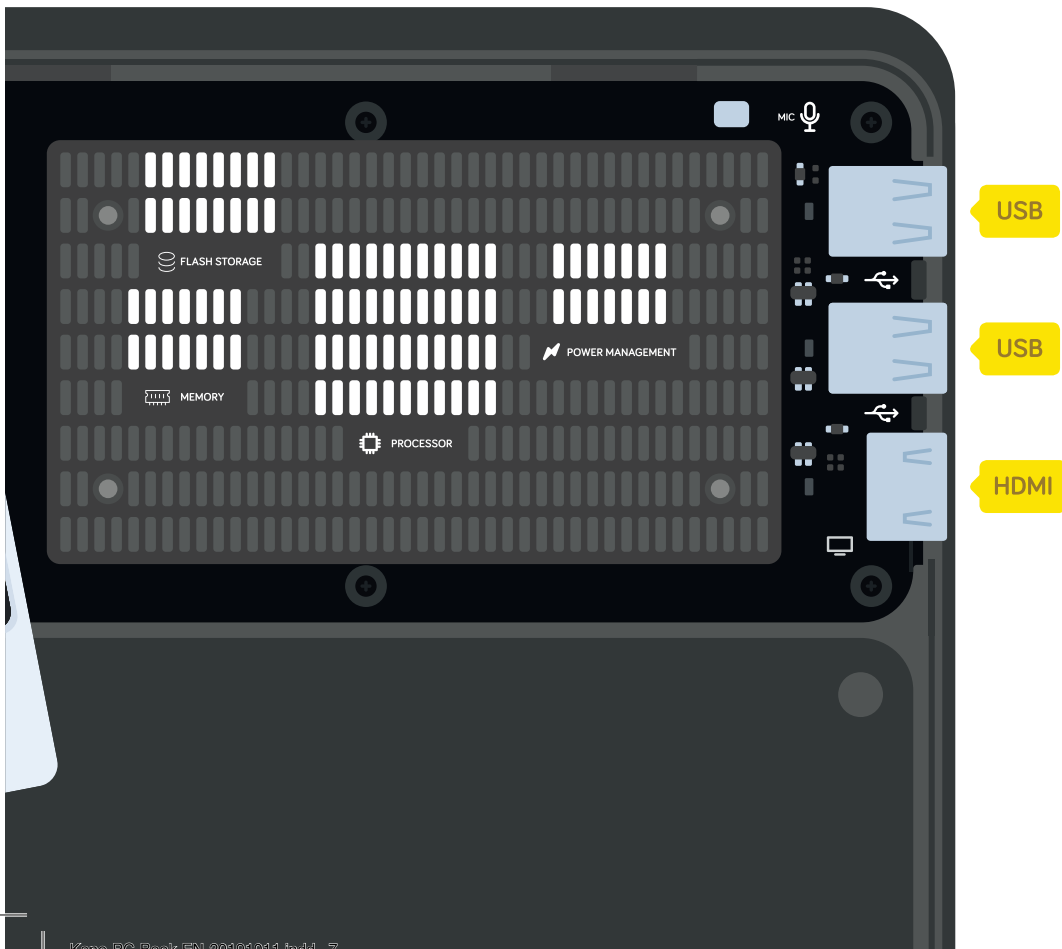
The front has over 1,000,000 pixels!

Lay it screen-down onto the black foam sheet



The back has a Printed Circuit Board, or PCB





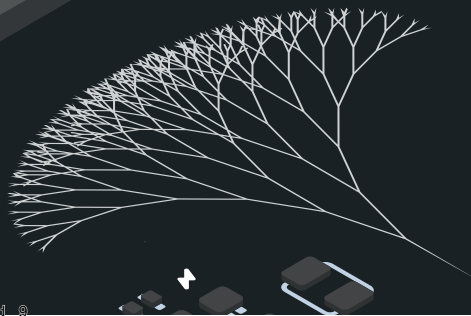
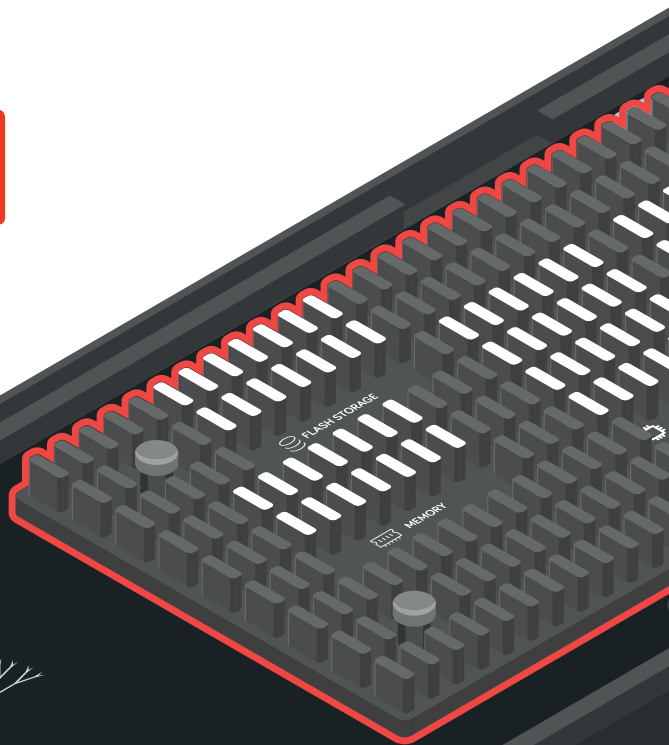
This part is called a heat sink



It protects very important chips from over-heating



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

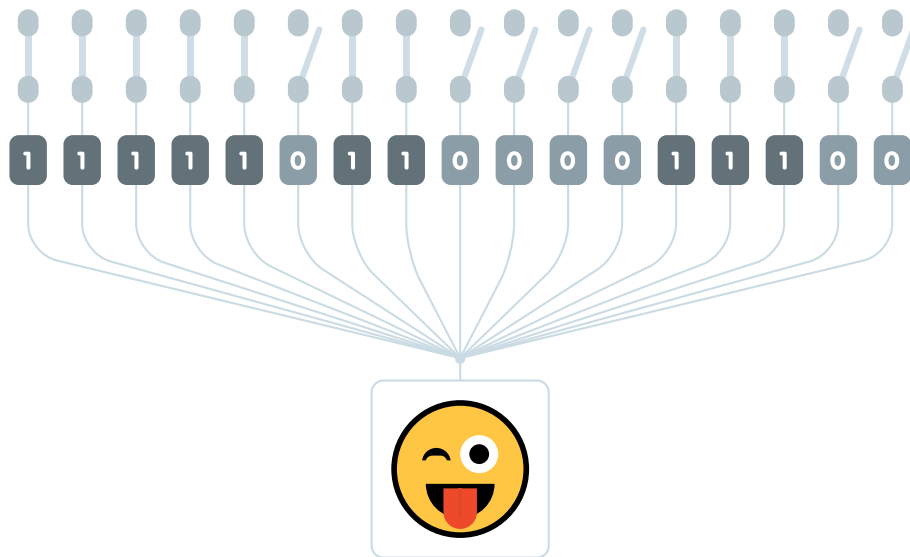


How does your computer think?



Underneath the heat sink is a CPU (Central Processing Unit)
with billions of electric switches inside of it

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



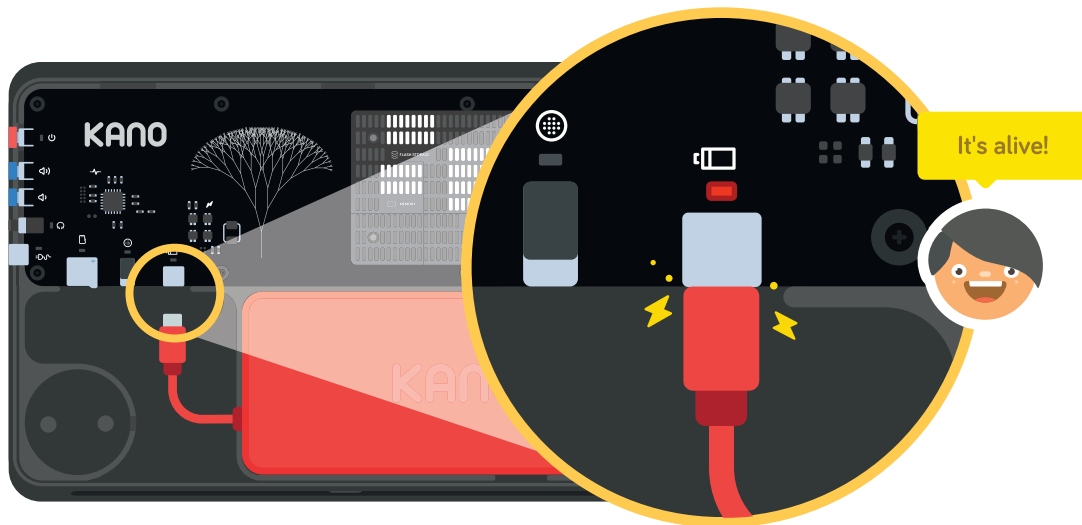
Your computer turns specific sequences of 0s and 1s - called binary code - into words, pictures, and logical rules

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



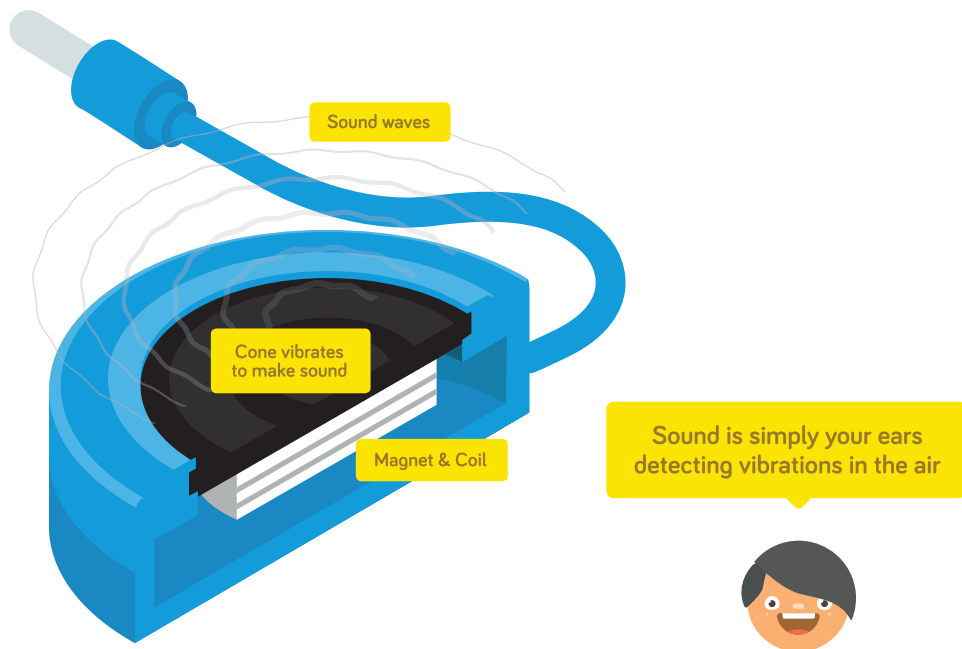
Electricity is now flowing from the battery into your computer!

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

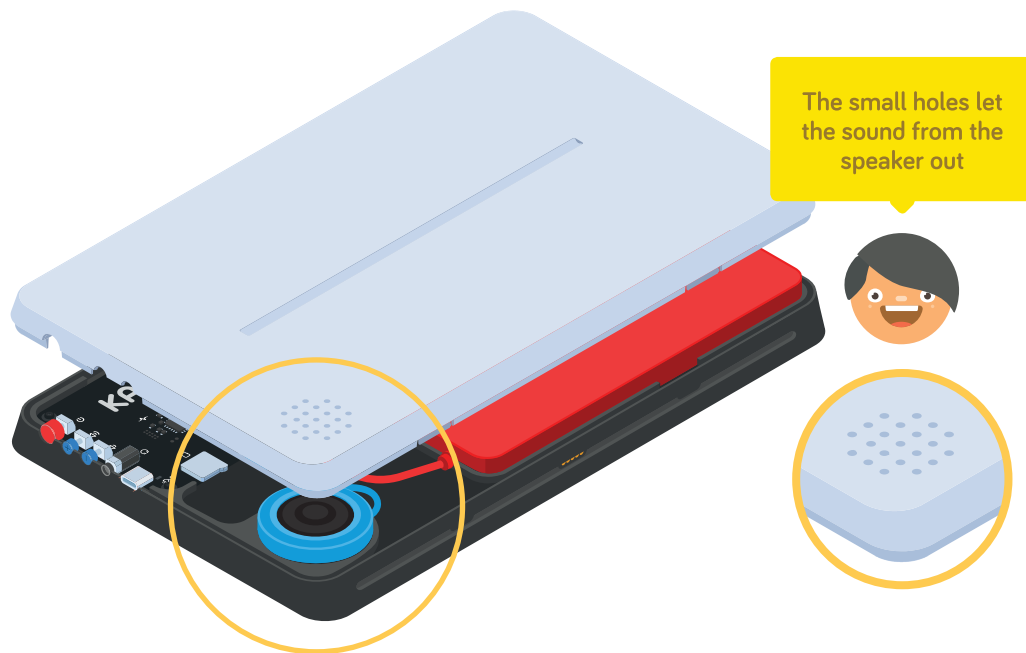


The light will come on to show it's connected



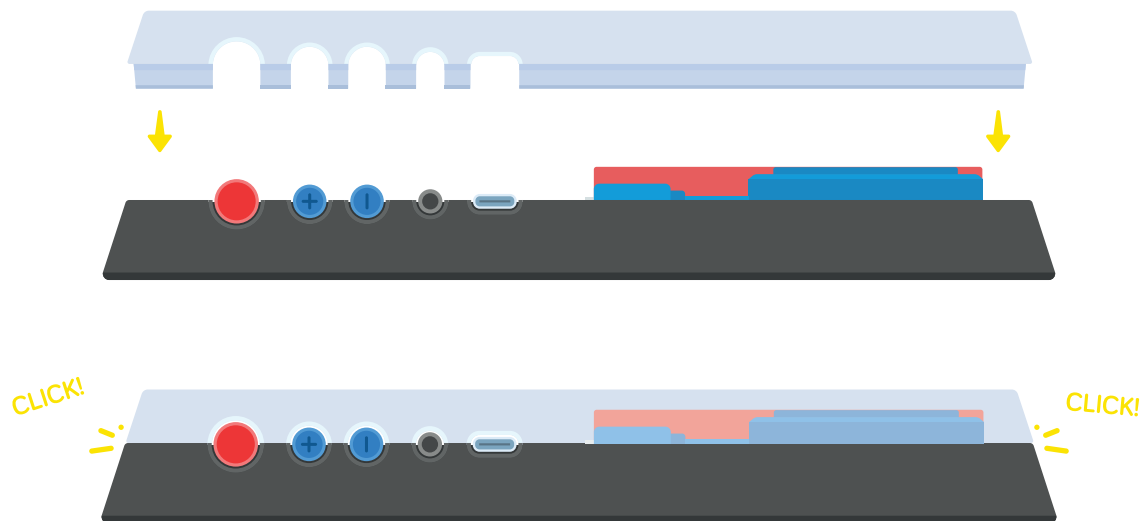
The cable sends signals to your speaker and they vibrate the magnet, membrane, and the air inside

Pick up the clear case



Hold it above the screen

Line up the grooves and push the edges into place



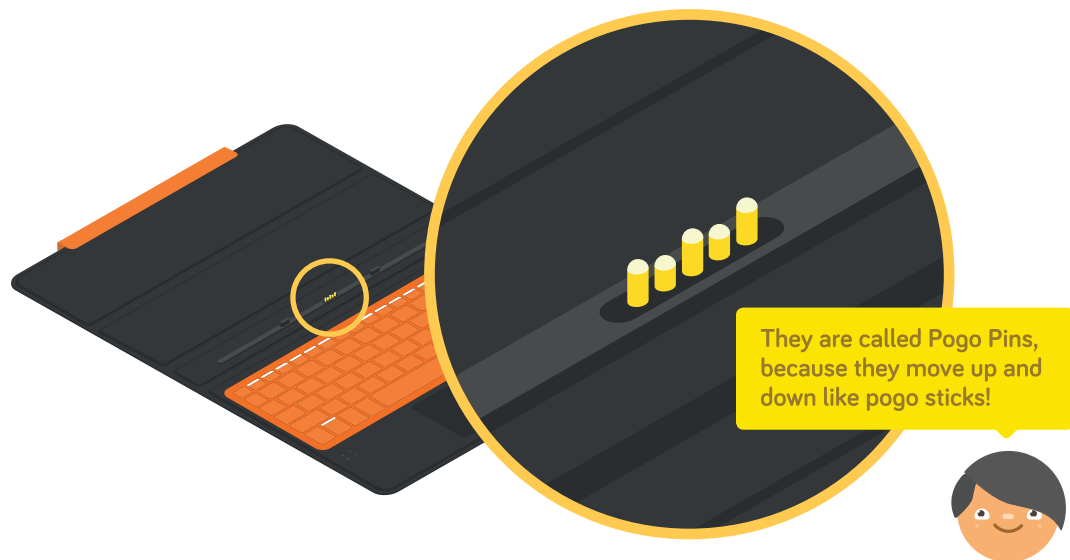
Make sure the case is snug and secure

You need a way to control your computer



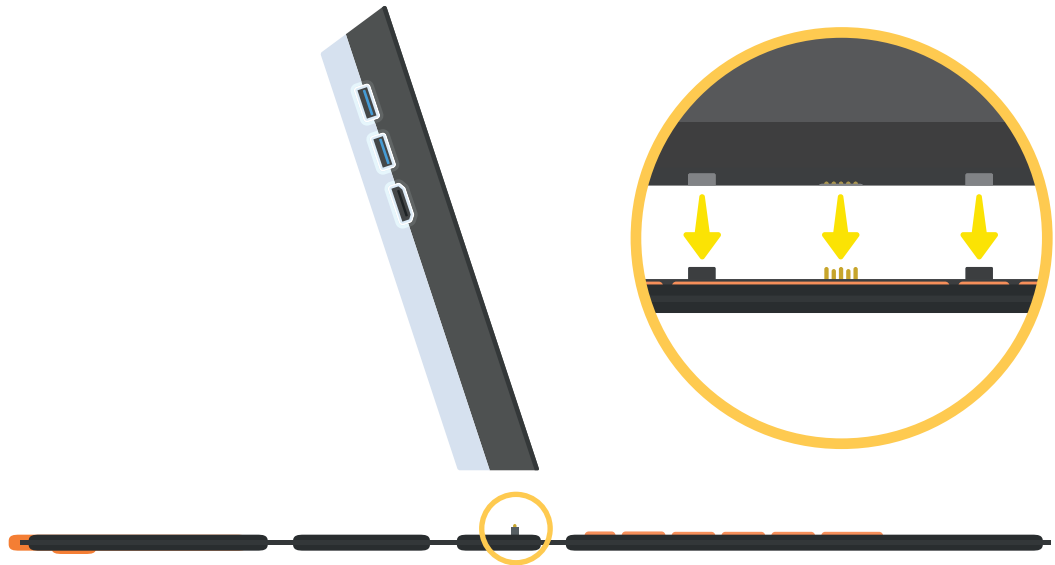
Flatten out the keyboard

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



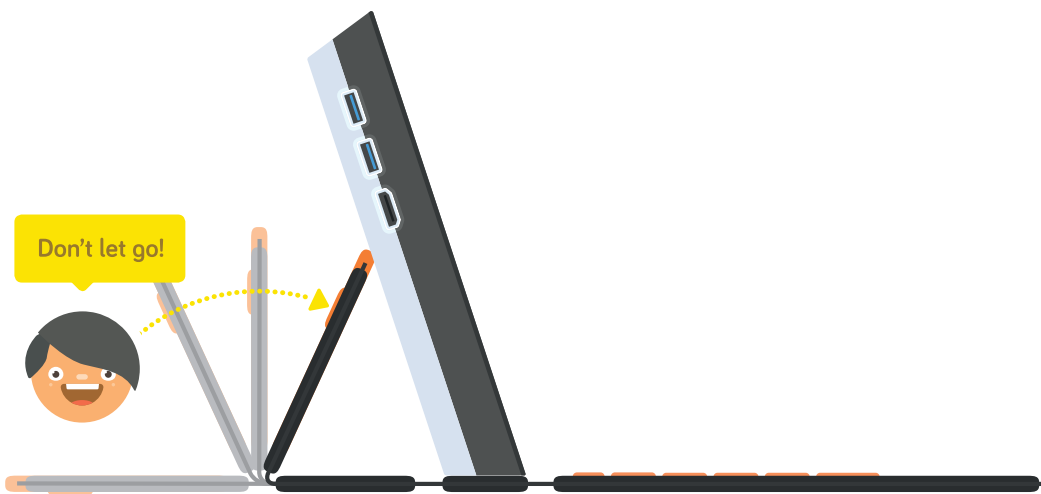
and send your commands from the keyboard to your computer

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

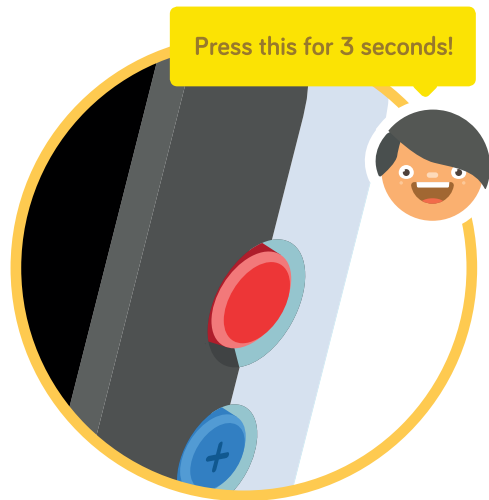
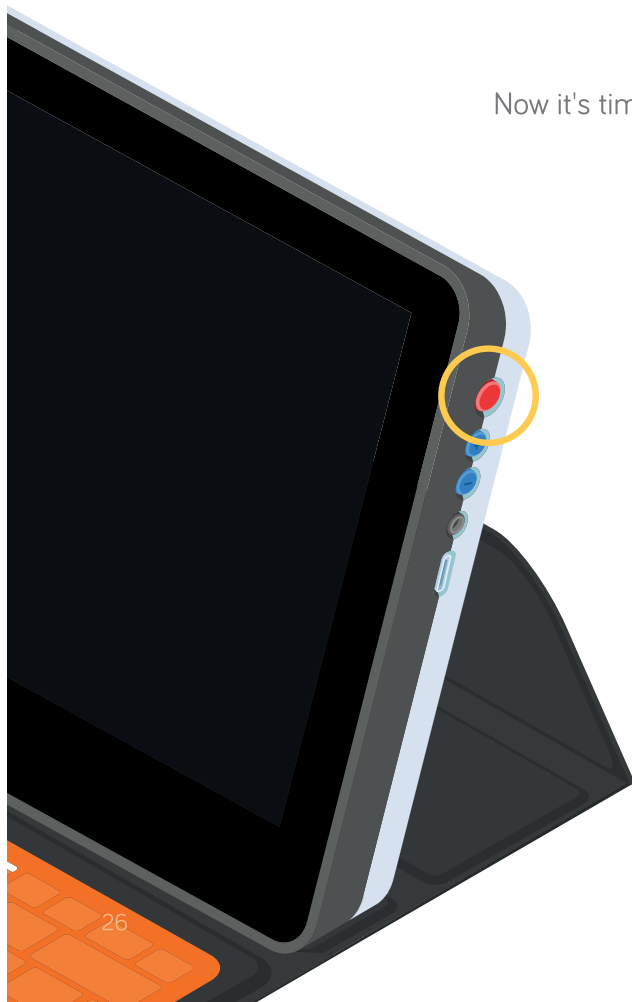
Slot the orange piece into the groove in the clear case



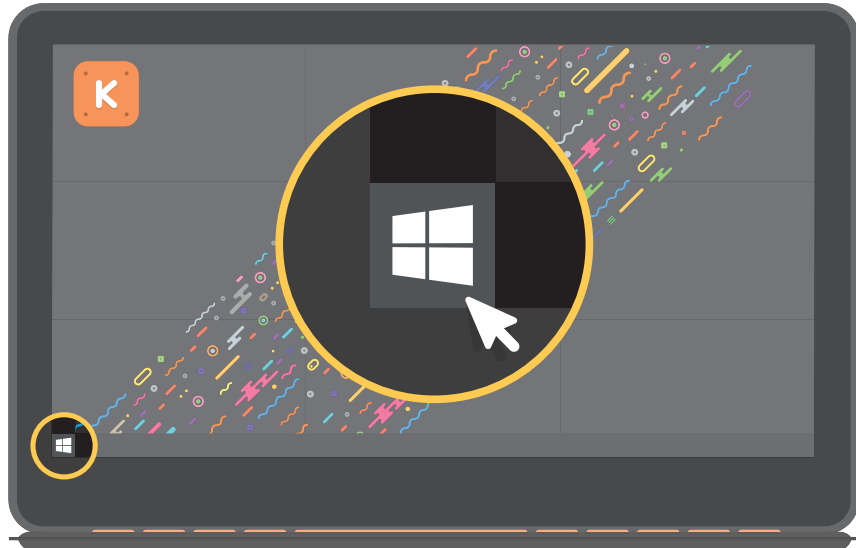
Congratulations! You've built your computer



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

