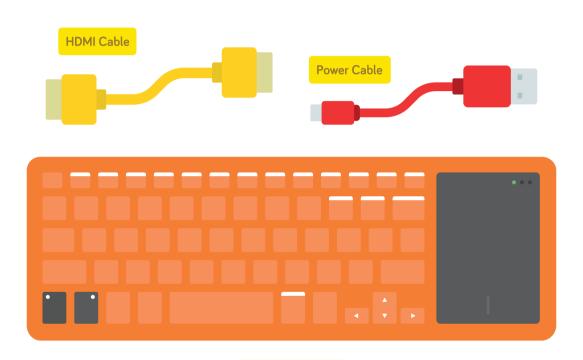


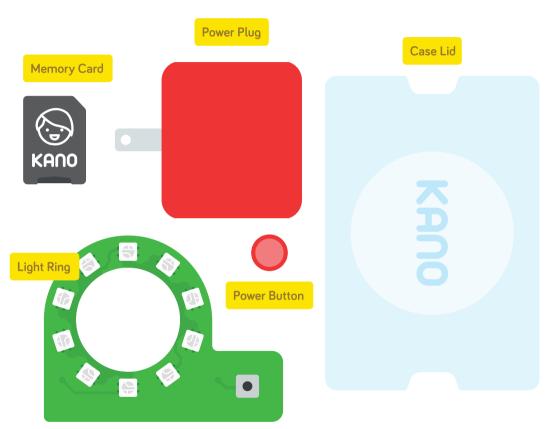


Hey! I'm Judoka, your computer companion. Ready to go?

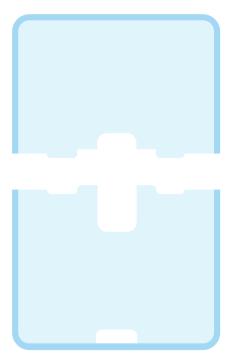
Take out the pieces!



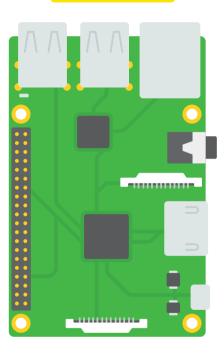
Keyboard + Mouse



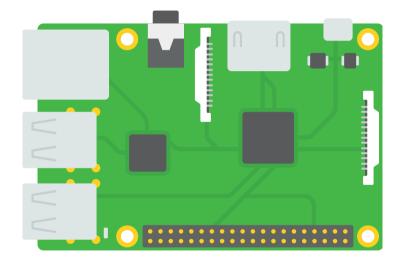
DIY Case



Raspberry Pi 3 Brain



This is your computer's brain



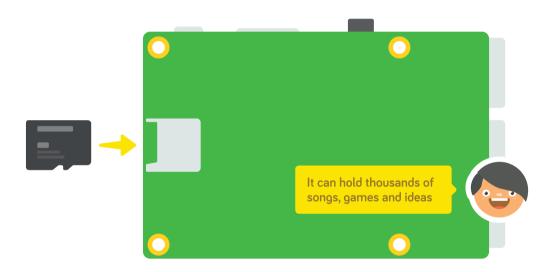
It's tiny, but powerful

Let's give the brain new powers



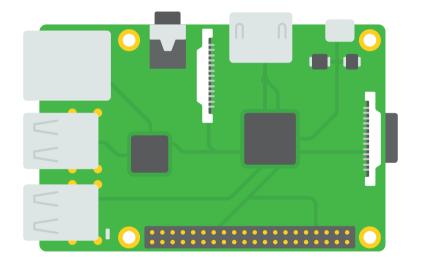
Grab the memory card, and slide out the micro card

Turn the brain over



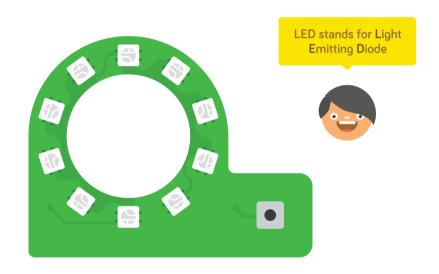
Slide in the micro card securely

Great!



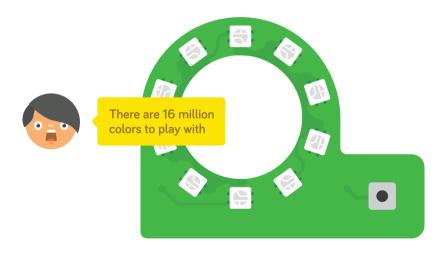
Now let's add lights

Grab your Light Ring



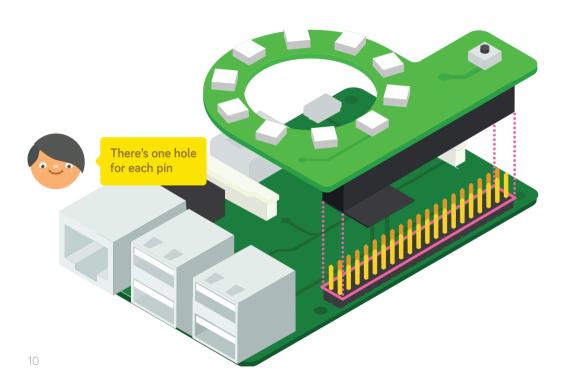
It has 10 LEDs you can code

The ring will flash colors after the brain is brought to life

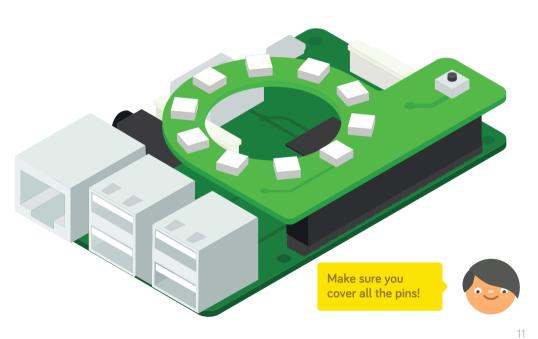


When it's processing data, the lights turn orange

Line it up with the pins on the brain



Then push it down



Nearly there



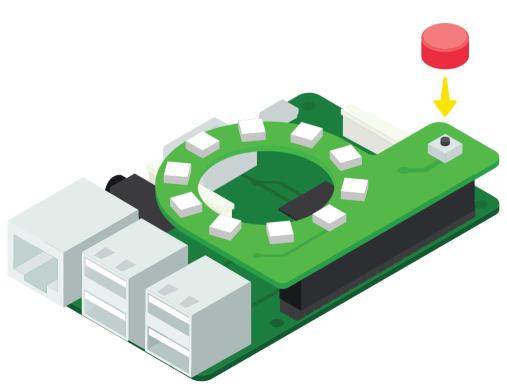
Make sure it's pushed all the way down



The Light Ring borrows power from your computer

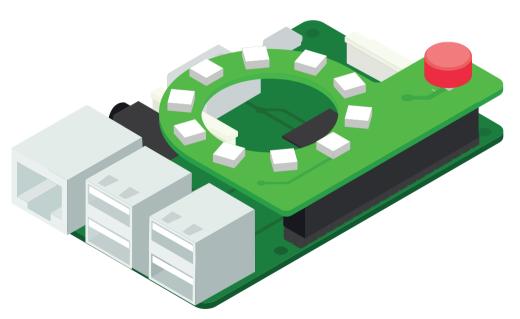


Add the power button

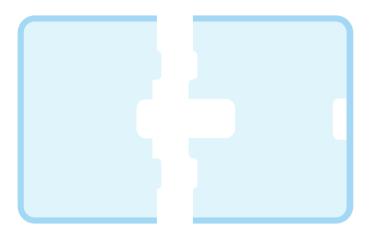


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Great! Now you can safely turn your computer on and off

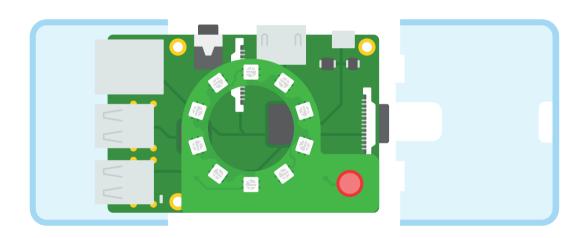


To keep it strong and safe, let's make a case



Grab the sides and line them up

Place the brain between the case sides

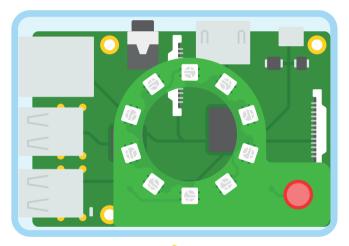


Slide them together



Now you have a brain with armor and memory!





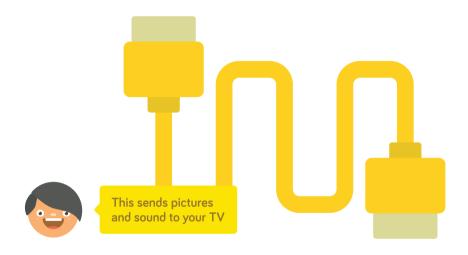




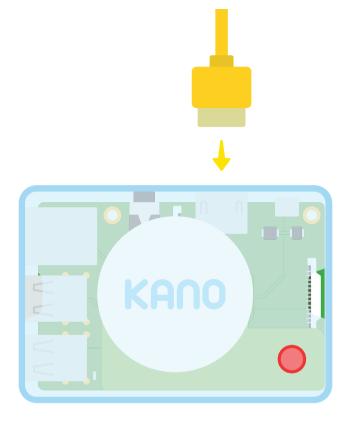
Awesome! A powerful, protected processor



Let's connect a screen



Grab the yellow HDMI cable

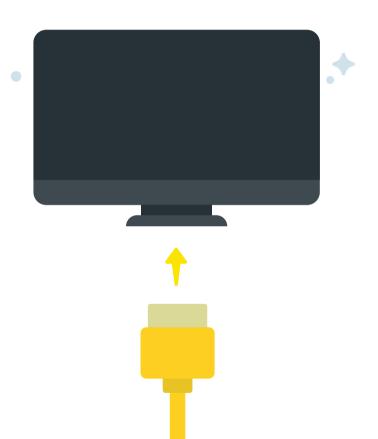


Plug it into your computer

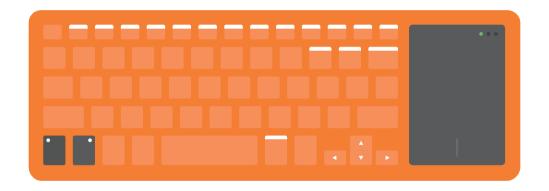
Find a screen or TV with this kind of plug

HDMI

Connect the other end of the cable to your screen



Now you need a way to talk to your computer



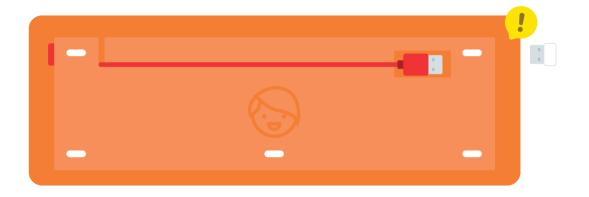
Grab your keyboard!

Pick it up, flip it around, and push the red power button





Take out the white piece



This USB has a radio antenna!

Plug the piece into your computer

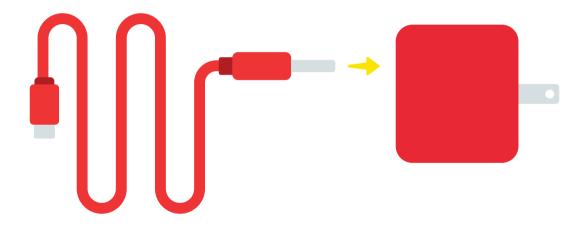


Now the keyboard and brain are connected



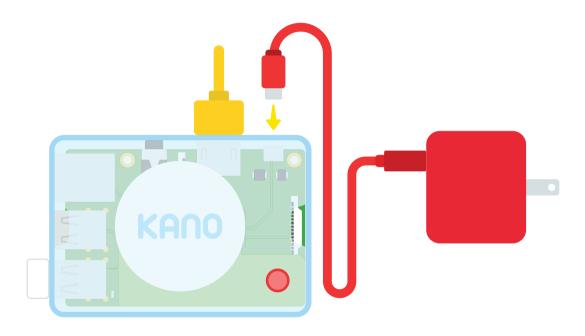
Almost there...

Let's bring it to life! Grab the red pieces...

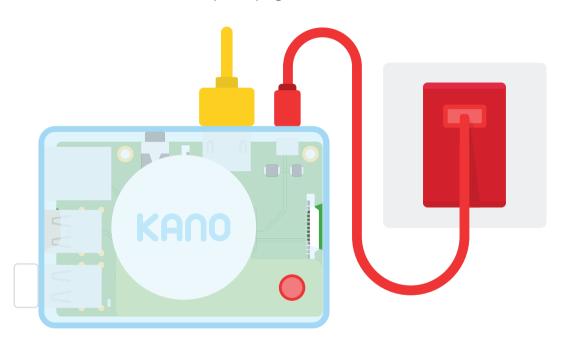


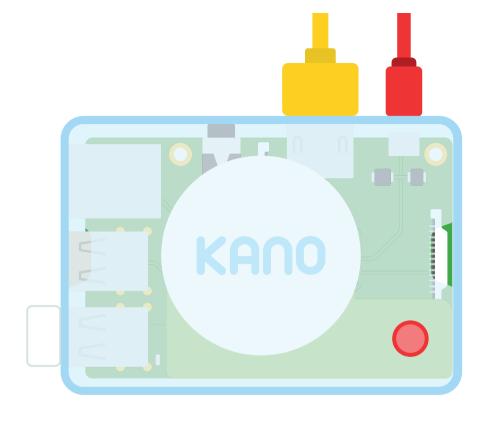
...and plug the big end into the power plug

Now grab the small end and connect it to your computer



Put the power plug into a wall socket





You made a computer! Now, follow the steps on screen...



...to bring your lights to life!

The lights on the keyboard tell you how it's feeling





GreenSuccessful radio connection



Slow flashesTurned on, but not connected



Fast flashesLow on power, time to charge!



OrangeCaps lock status



Red Charging

Your keyboard has hidden powers



Activate the white functions by holding [FN]



Run code Make it happen!



Mouse speed Medium or fast



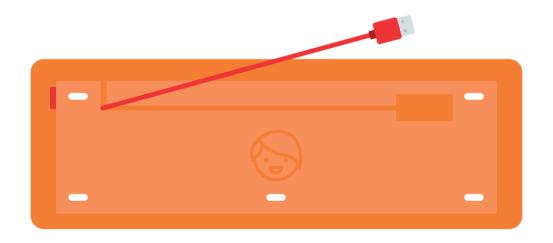
Share creationsShow off to friends



Useful for coding

All of these keys are frequently used when coding, so make sure to learn them

When the green lights flash fast, charge your keyboard



Plug the red cable into the power plug, or to your computer

Need help? Want more?



help.kano.me Help with anything from kits to coding



kano.me/world Endless content by a friendly community



kano.me/shop More kits and sensors



/teamkanoFor tutorials, films
and fun stuff



/kanocomputingTalk to us and get the latest news



@teamkanoSend us your pic
and questions



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