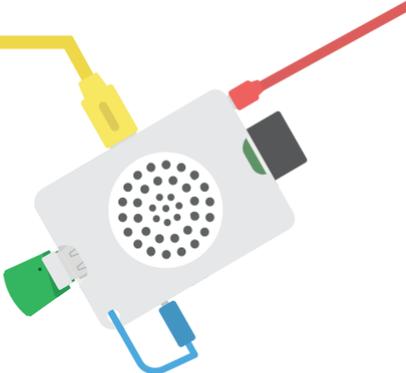
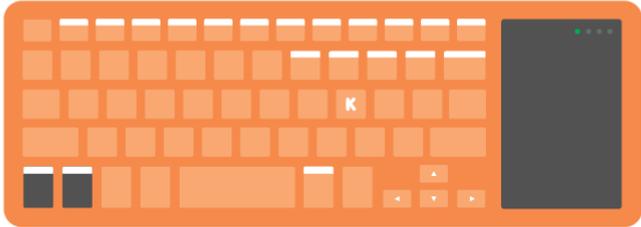




BOOK 2  
code powers





Lets make...

**SNAKE**



Page 14

**PONG**



Page 19

**MINECRAFT**



Page 32

**MUSIC**



Page 44

**VIDEO**



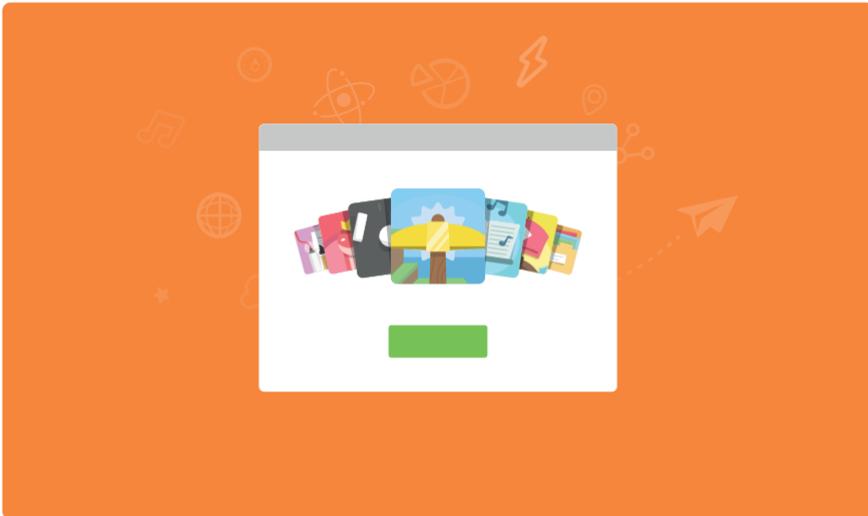
Page 50

**APPS**



Page 56

Awesome! You just made a computer



Now let's play

To get set up, follow along onscreen



Find your keyboard, speaker, and WiFi signal

Put in an email and password to create a Kano character

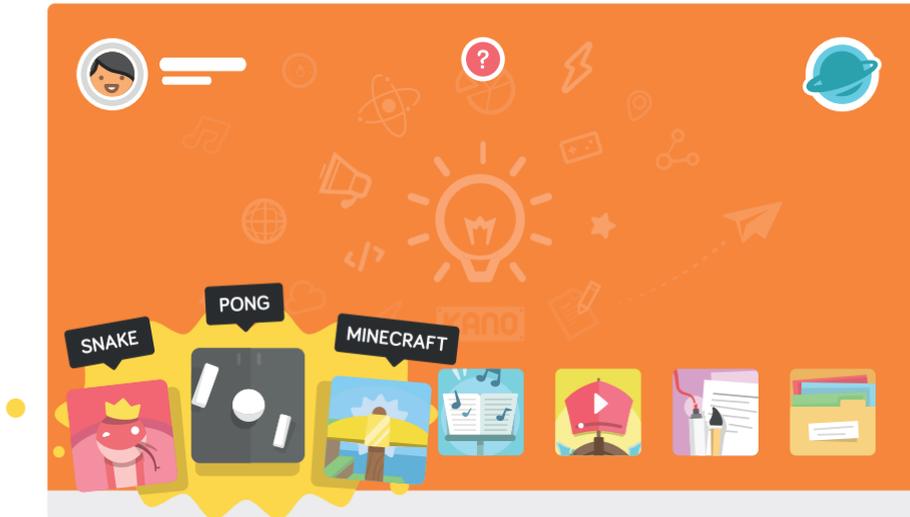


Under 13? Put in a parent's email, and tell them to check their inbox!

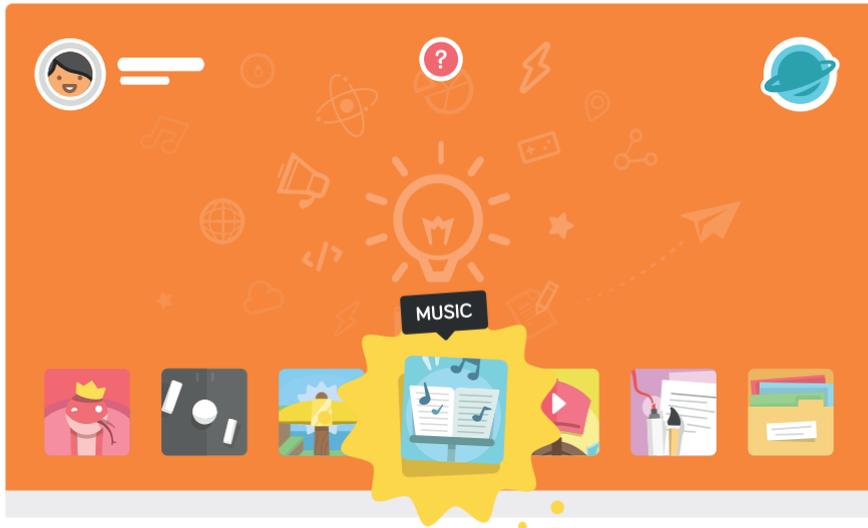
You unlocked your Kano Desktop!



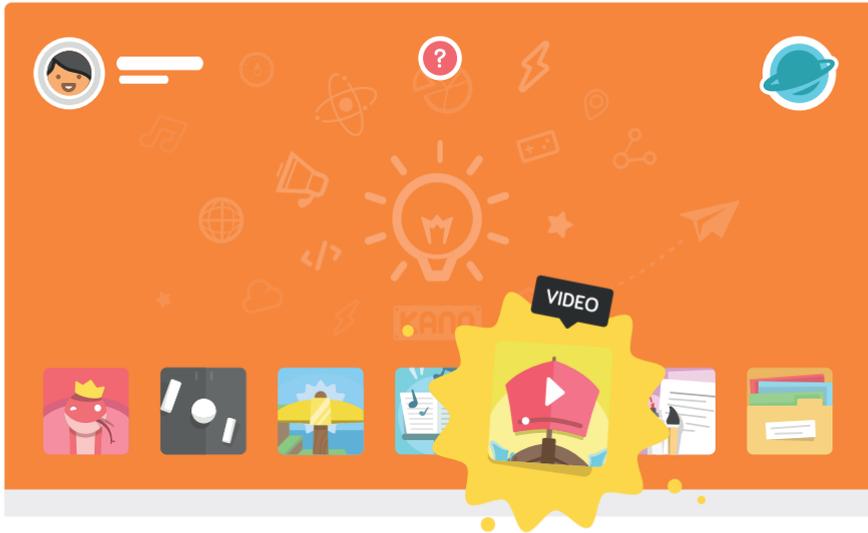
You can make games...



# Code music



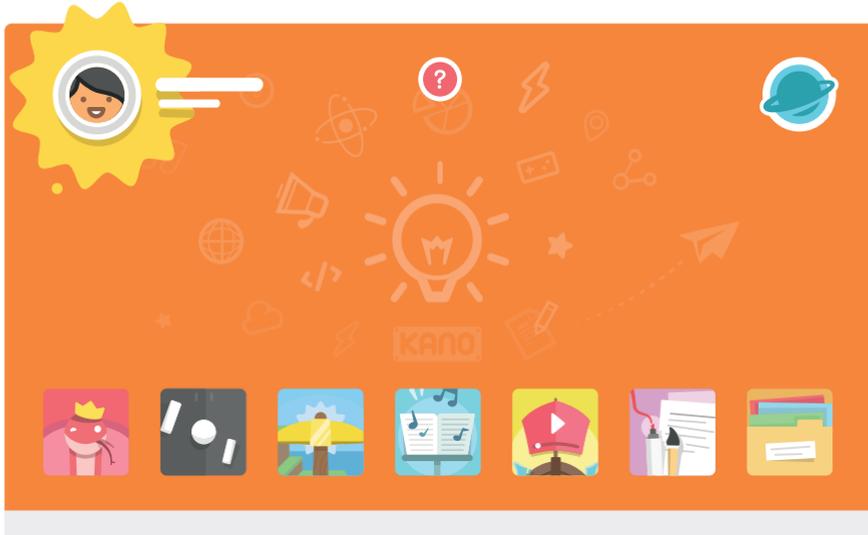
## Play videos and songs



...and tons more!

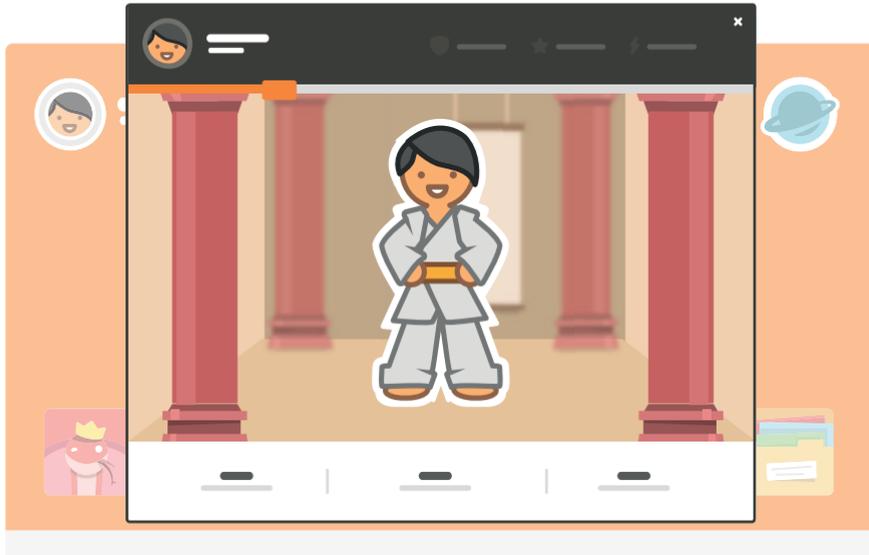


Let's start with you!



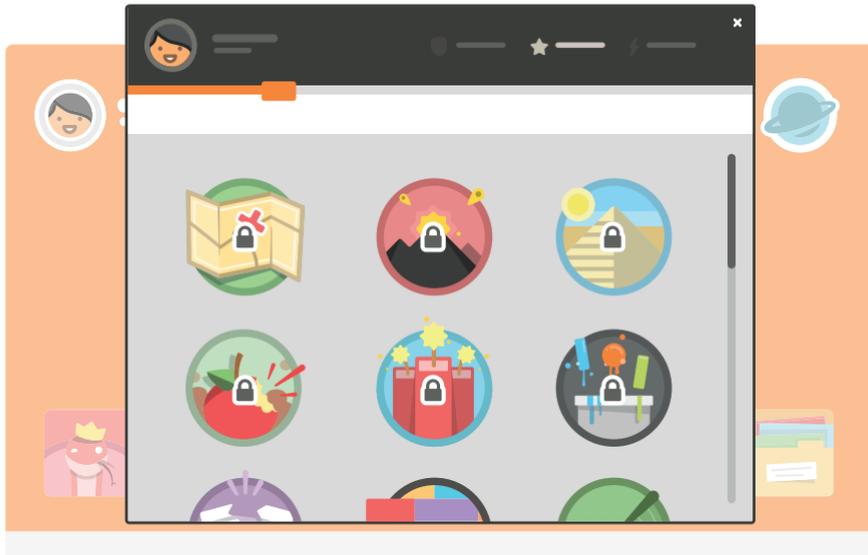
Click on your name in the top left corner

In here, you can customize your character and background



You can also check out your badges and saved creations

The more you play, the more you'll win!



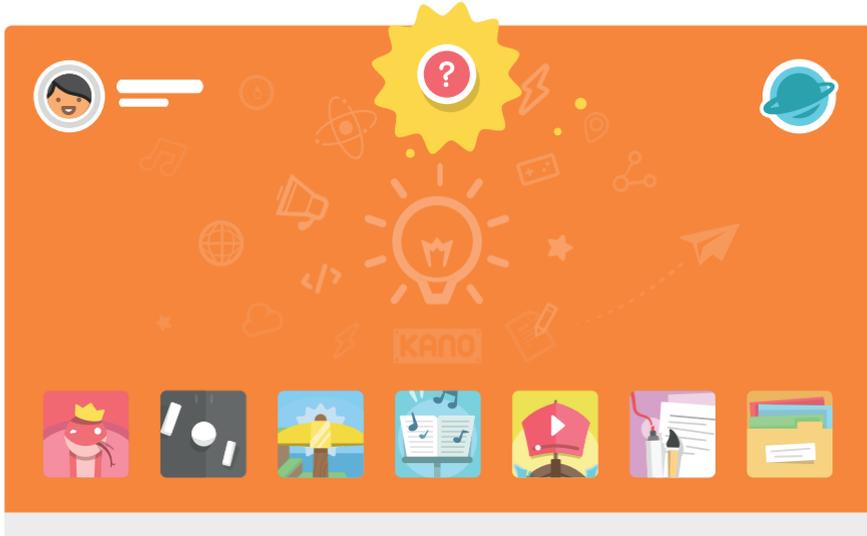
Beat challenges to gain XP, unlock swag, and level up

Go back to the desktop by clicking the cross in the upper right corner



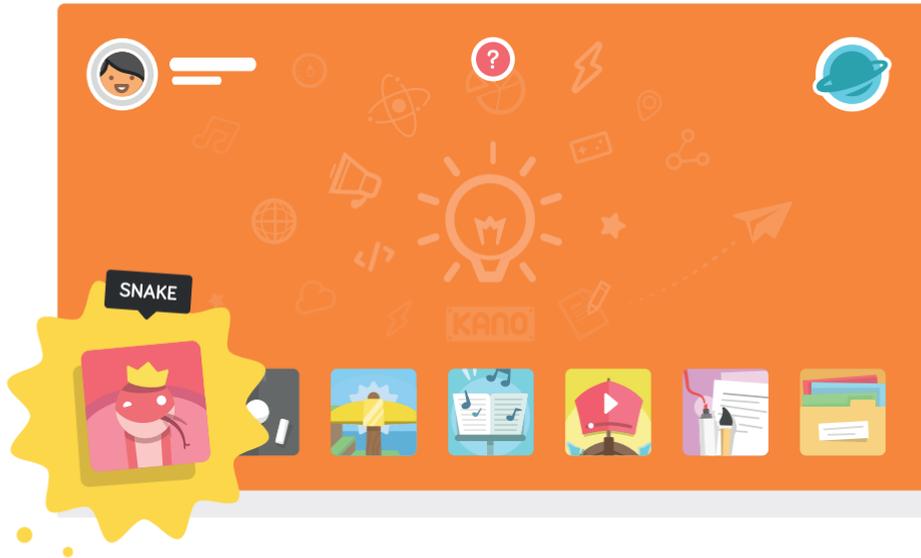
Or the home widget in the taskbar

And if you ever need Help, just click on the ?



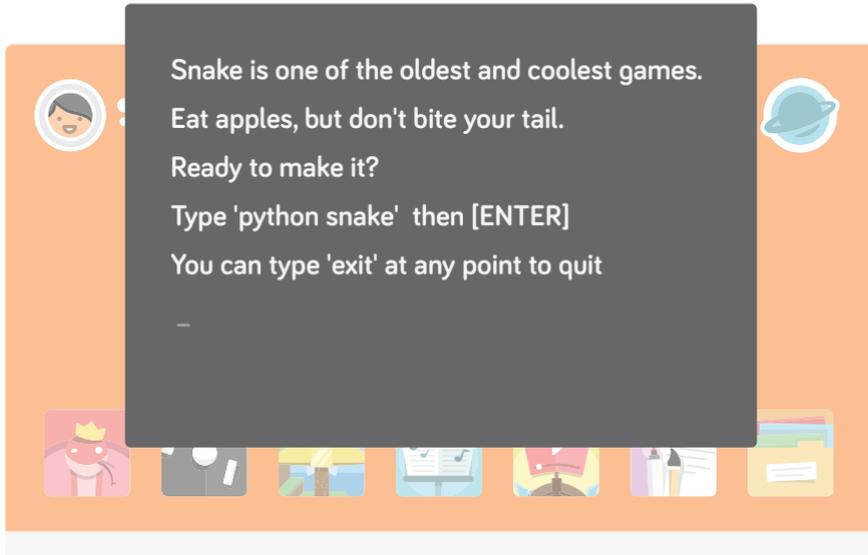
You can also push [FN] + [K] on your keyboard

Let's start with Snake



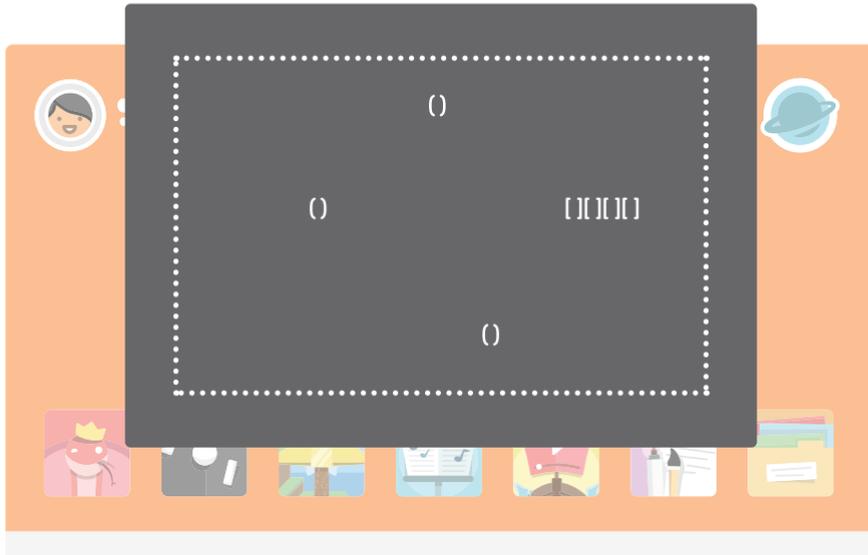
Click once on the icon

Type a command, then press [ENTER] to make it real



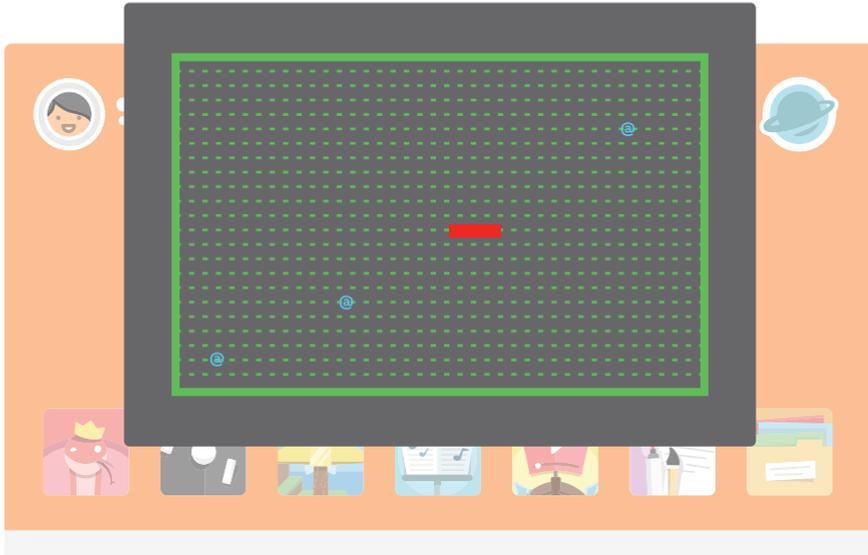
Follow the instructions on your screen to start coding

Basic Snake is cool



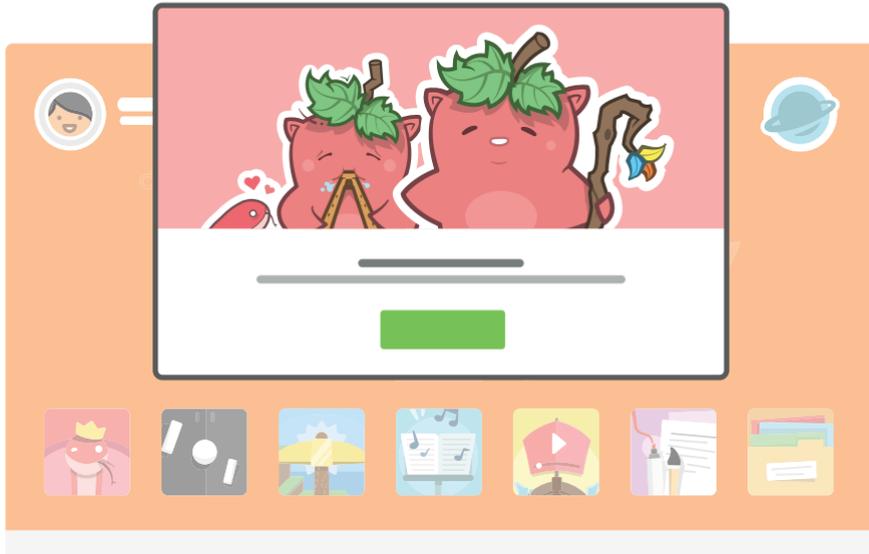
But we can make it cooler...

[python snake -b m] will make the board smaller



[python snake -t jungle] will give it a new theme!

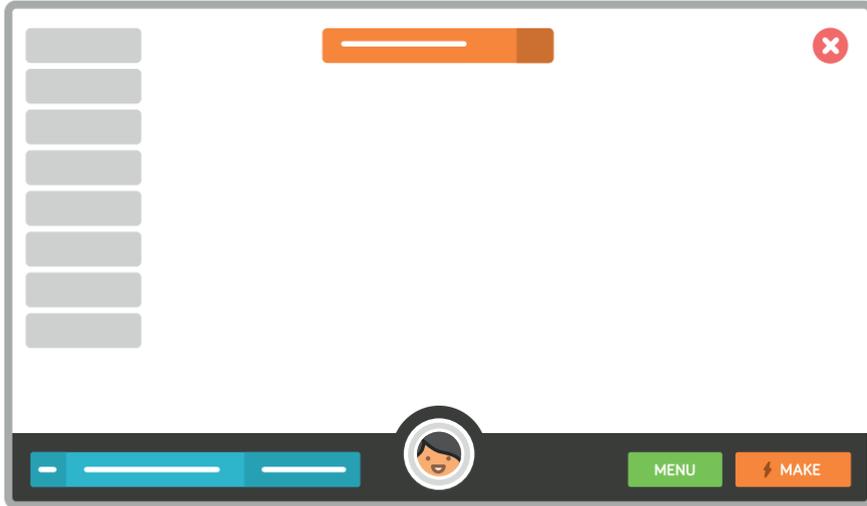
Make the game harder, faster, more colorful!



Beat the Level to get a new character

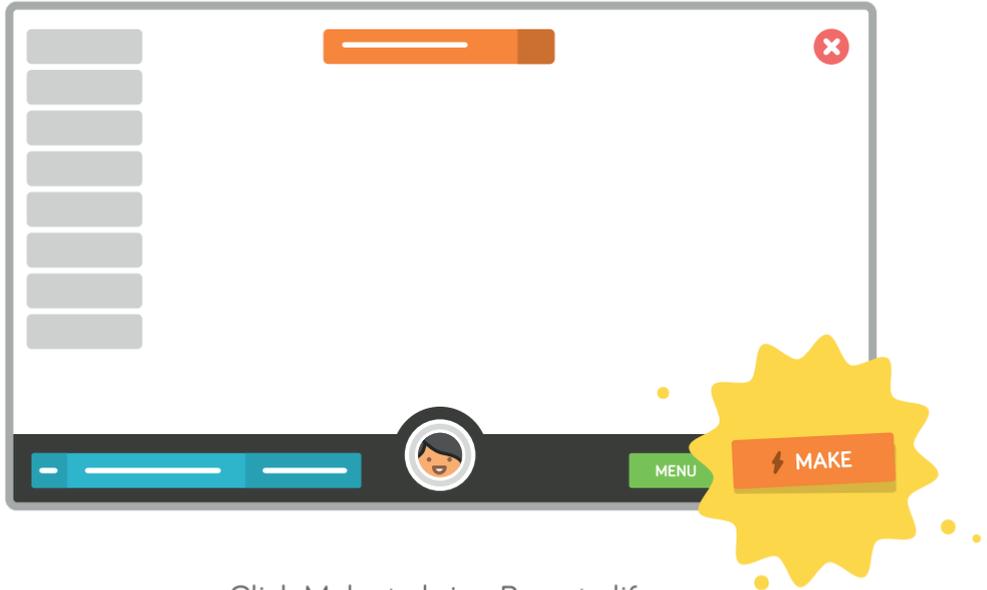


In Snake, we typed commands



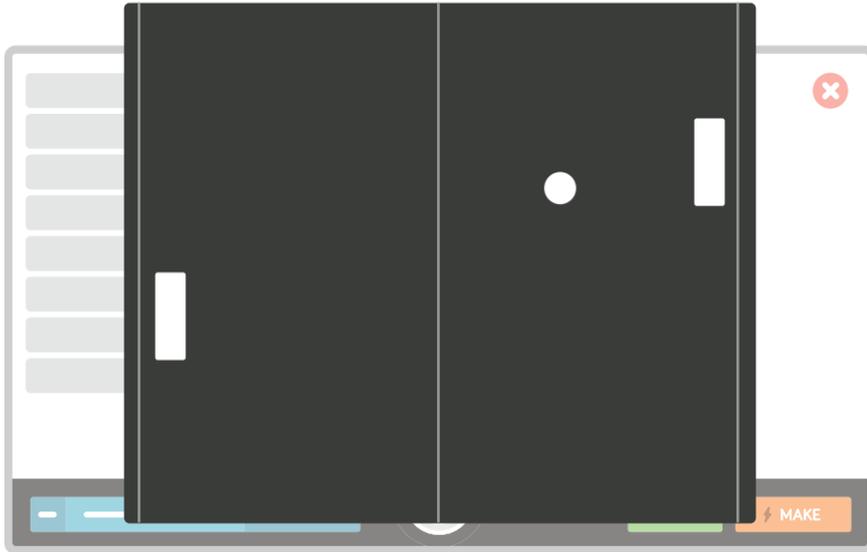
Now we'll build code with Kano Blocks!

First, start the game



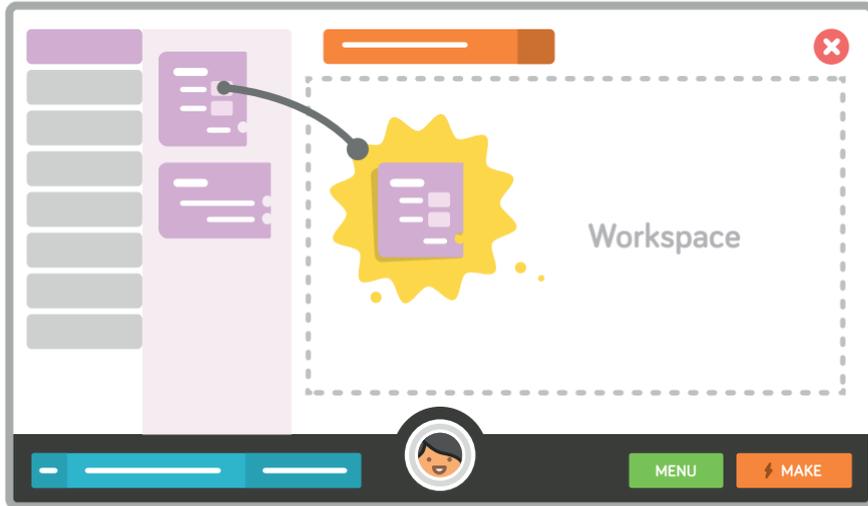
Click Make to bring Pong to life

Use the arrow keys to play



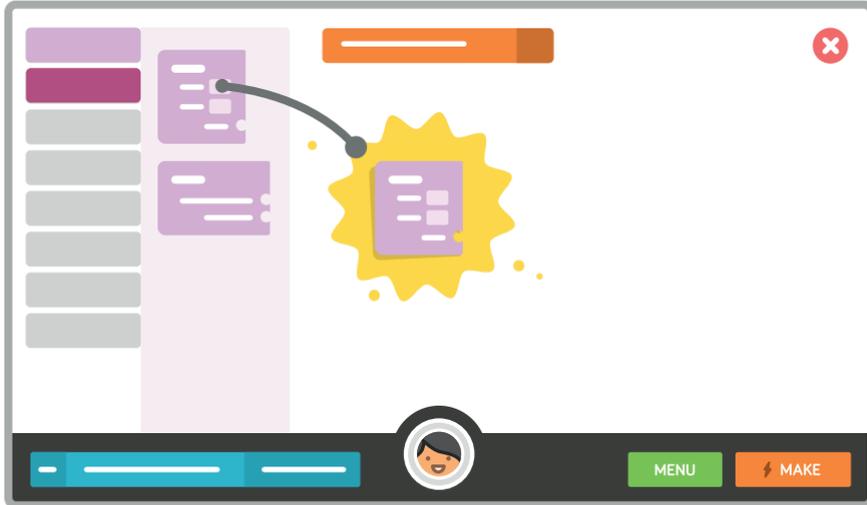
When you're ready to make Pong even cooler,  
press [Q] or click outside the window

Click on a block, hold down your mouse, and drag it into the workspace...



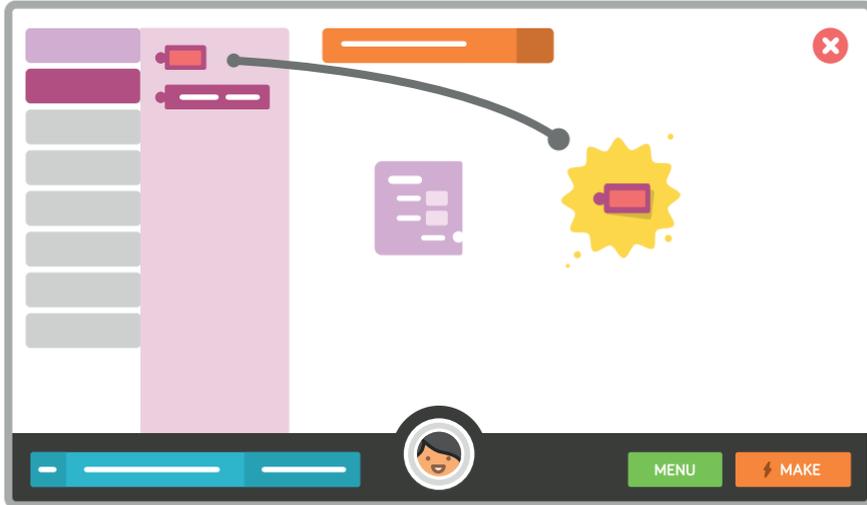
Then press Make

Let's start with painting the board



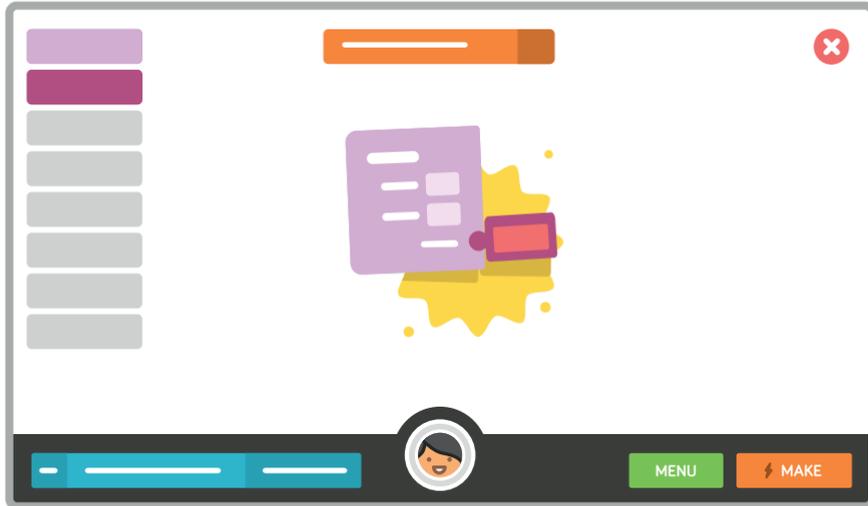
Click Start Ups, then click and drag the Board block into the workspace

Now let's pick a color!

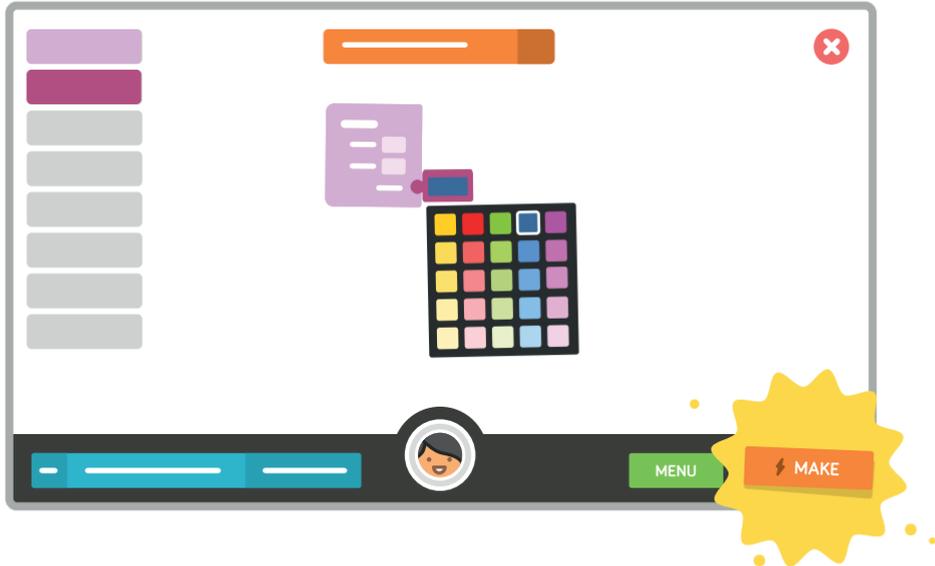


Click on Color, and drag in the Color block

Connect it to the Board block

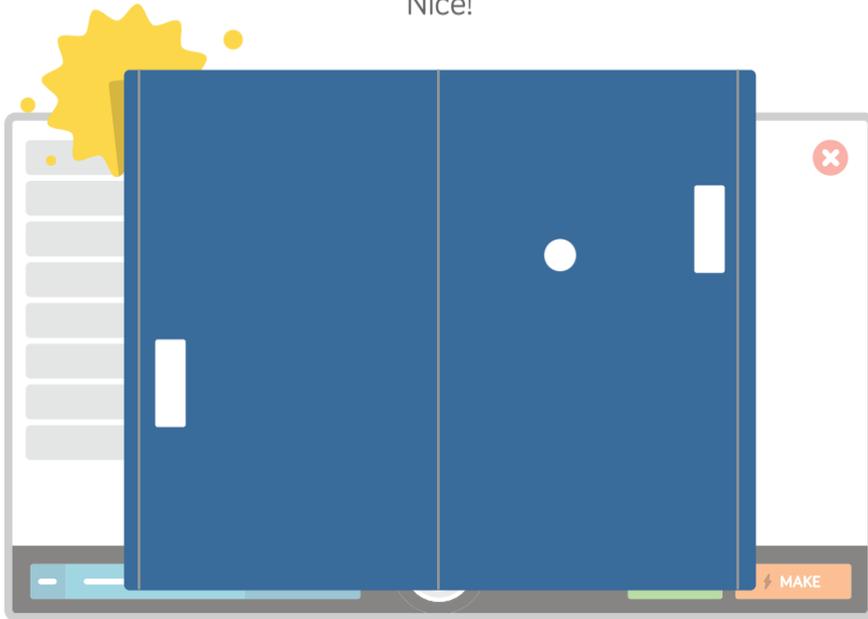


Click the Color block, and choose a new color



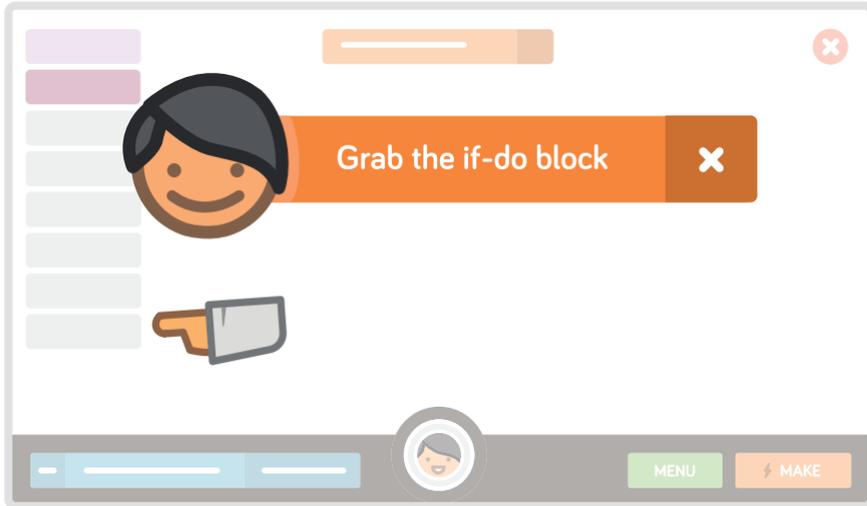
Then press MAKE to bring it to life

Nice!



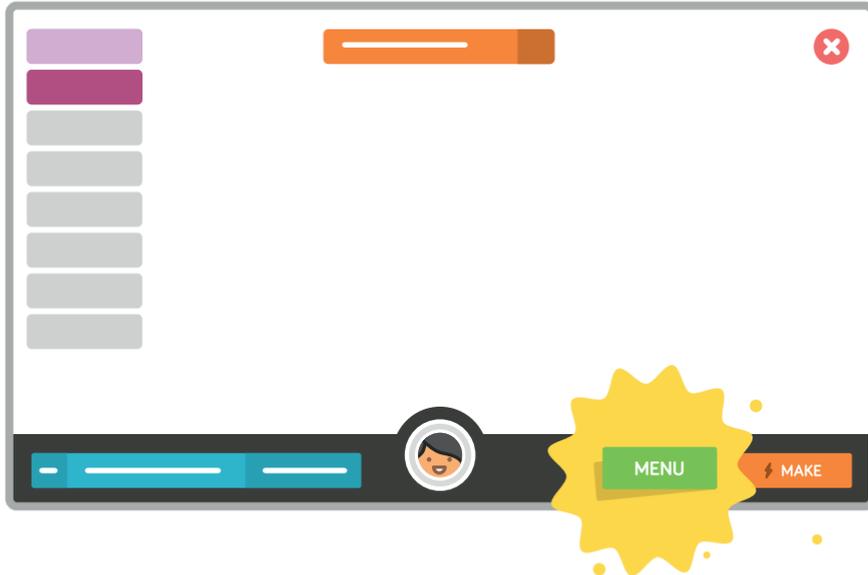
Next, you'll use Blocks to change speed, size, and rules!

Follow the tips at the top

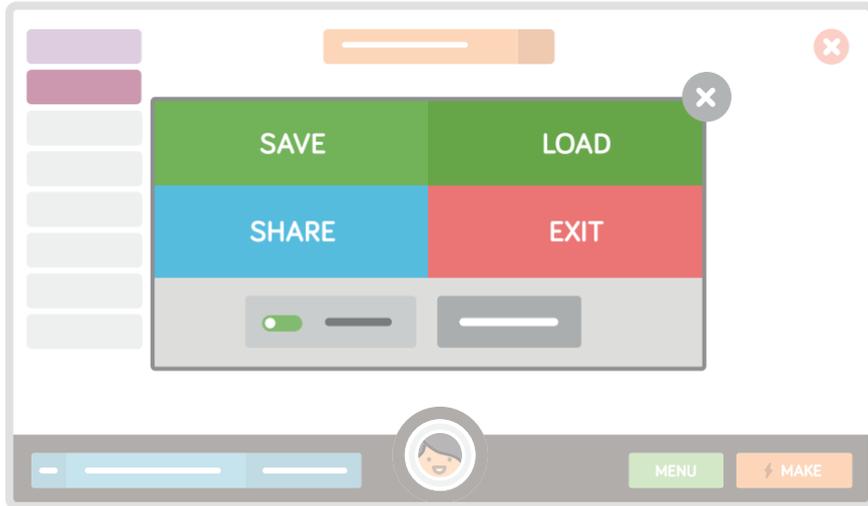


The judoka's finger points to the next block you'll need

When you're ready, click on MENU



Save your creation, and Share it with the world!



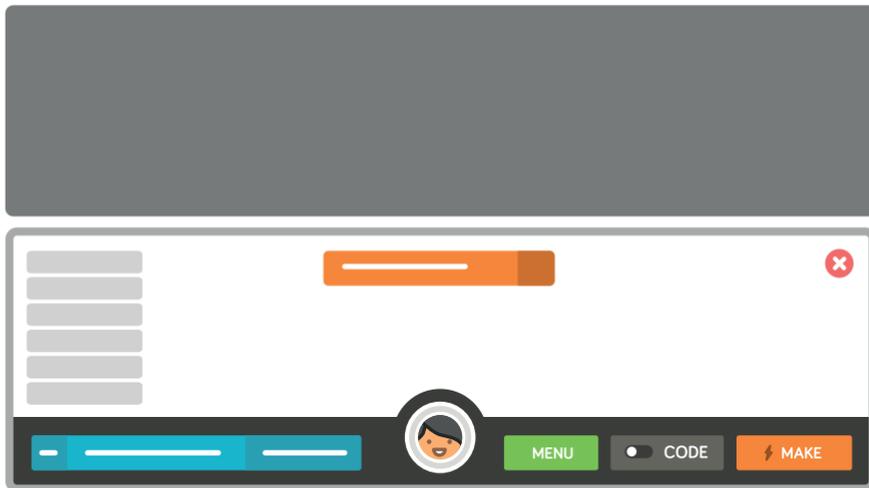
Click EXIT to close Pong

Ready for some Minecraft?



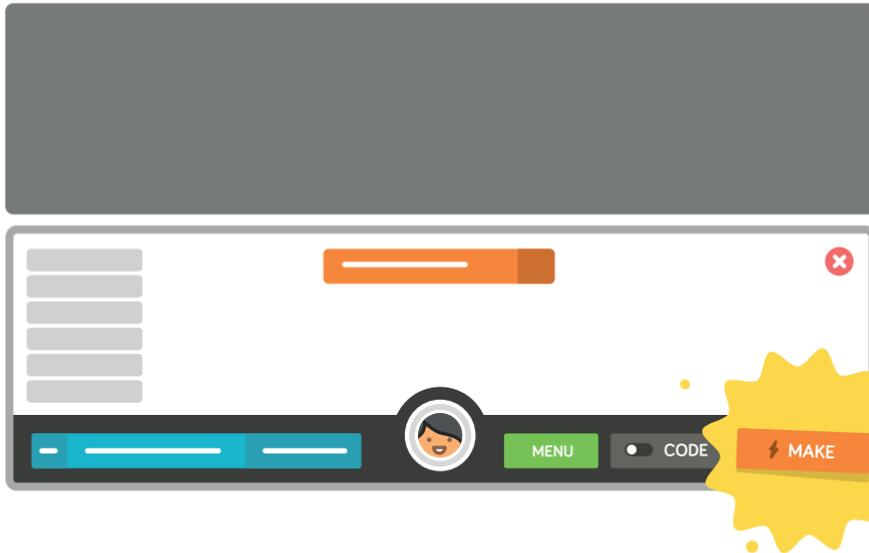
Click once on the icon

Use code to build epic worlds



Drag blocks, connect them, add variables, and MAKE

First, load up the game by clicking MAKE



Play Minecraft on the computer you made yourself!



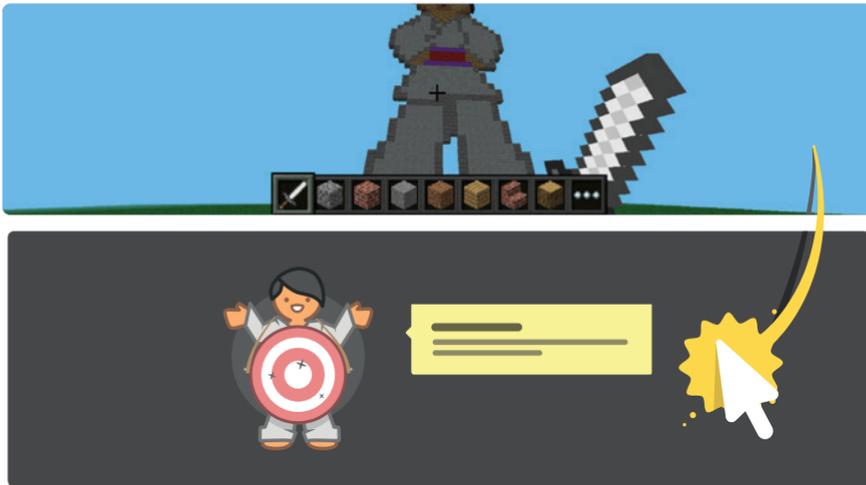
Move with [W], [A], [S] and [D].

To go back to Kano Blocks,  
you need to activate the bottom half of the screen



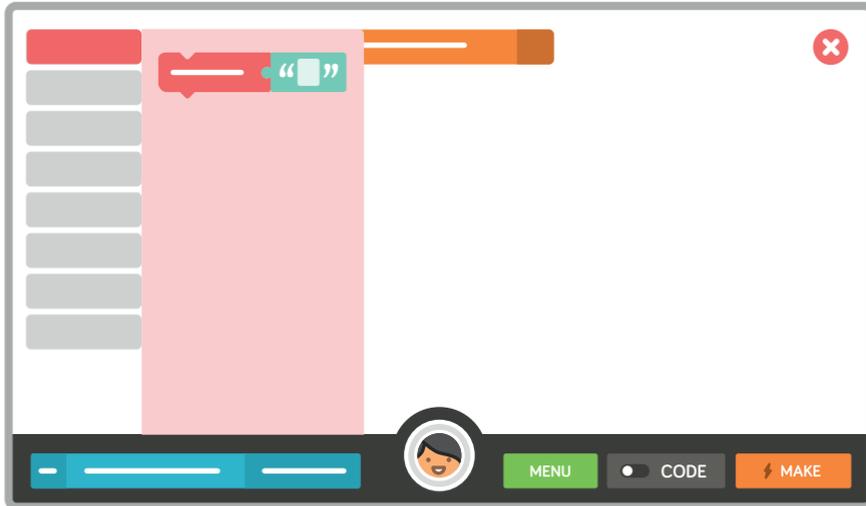
Press TAB on your keyboard to free the mouse from Minecraft

Drag the mouse down until you can see it...



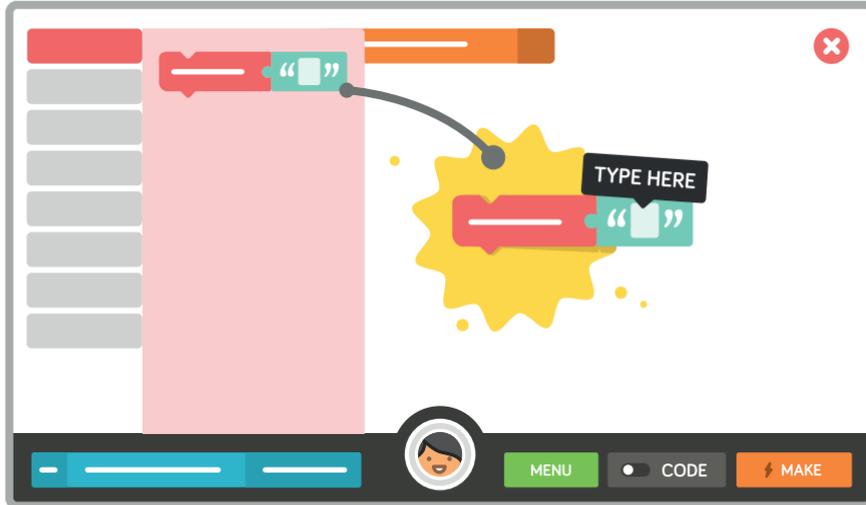
Then click

First, we'll use Blocks to code a message



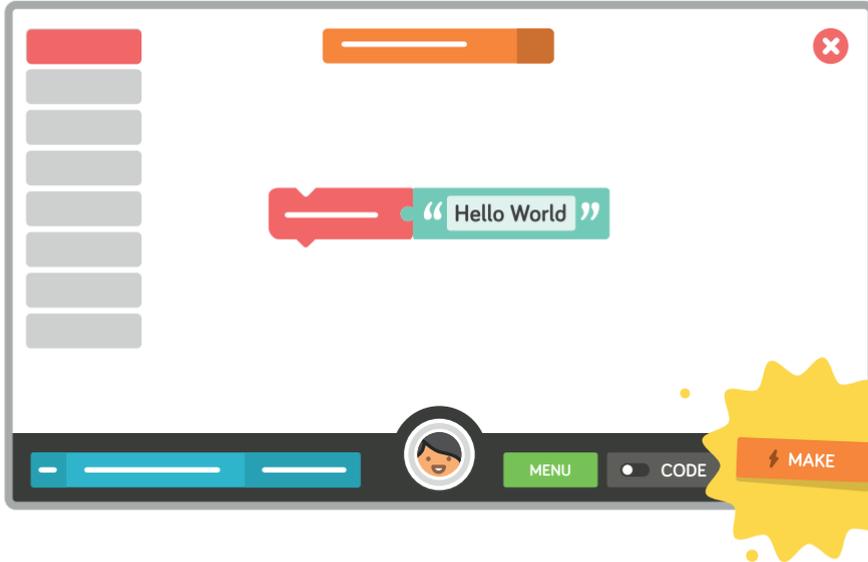
Click on the Actions tab

Click the post To Chat block and drag it in...



...then click on the block and type something inside

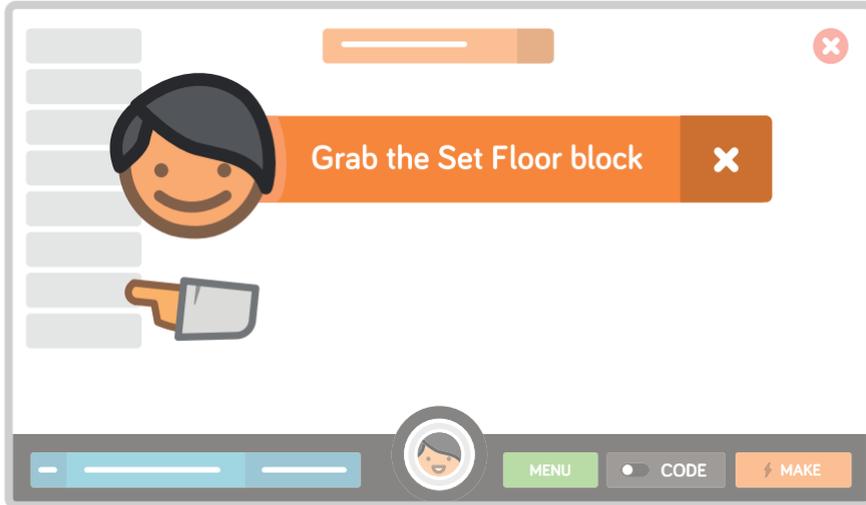
Click Make to run your code



And that's just the first challenge...

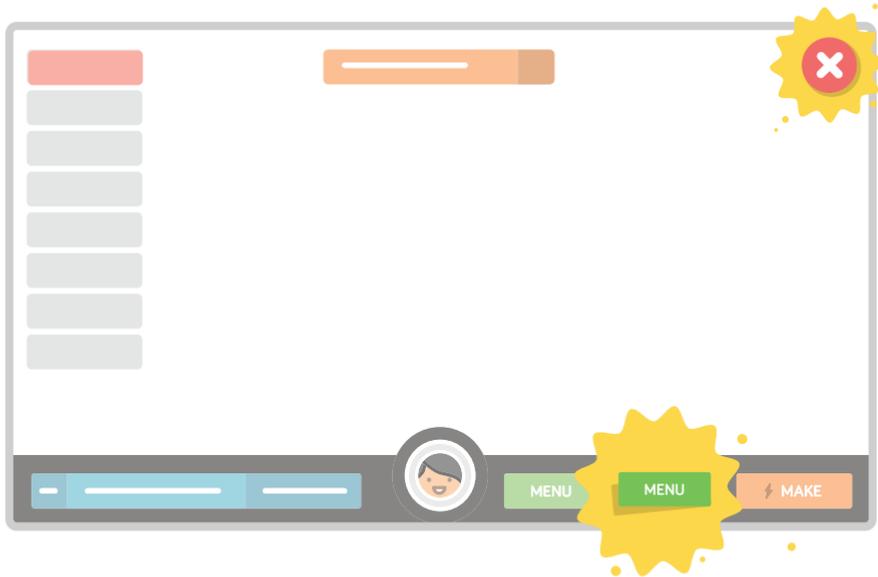


Follow the Judoka's face and finger...



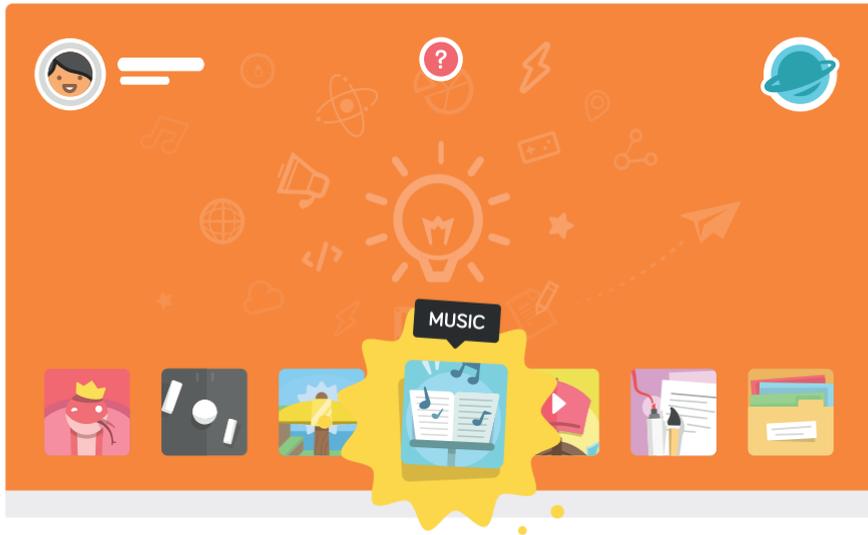
You can build towers, castles, volcanos, and more...

Beat all the challenges to become the Master Builder



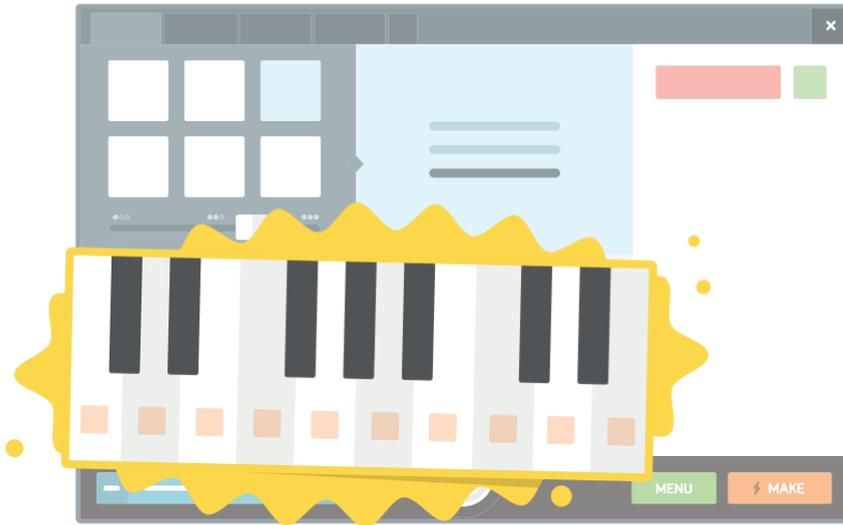
When you're done with Minecraft, click the red cross or MENU to Exit

Ready to raise the roof?



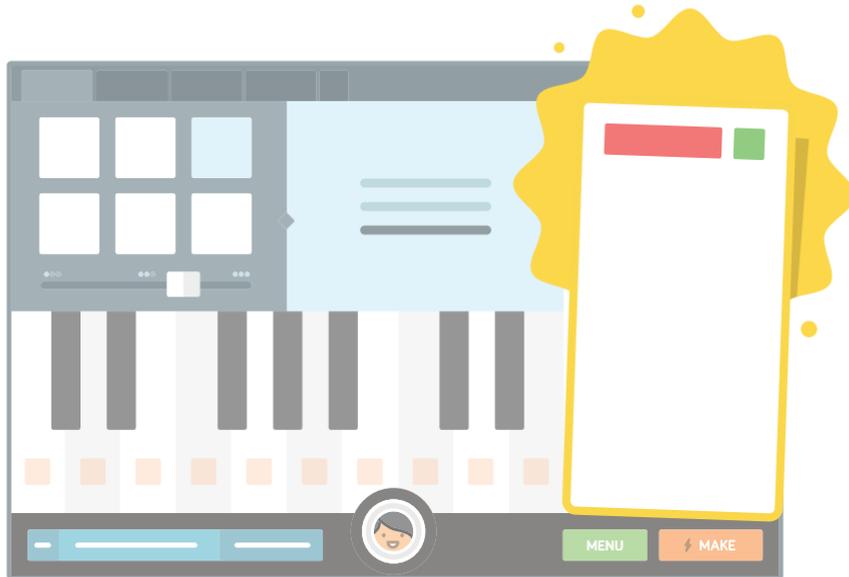
Click on Music

Play tunes and beats on your keyboard



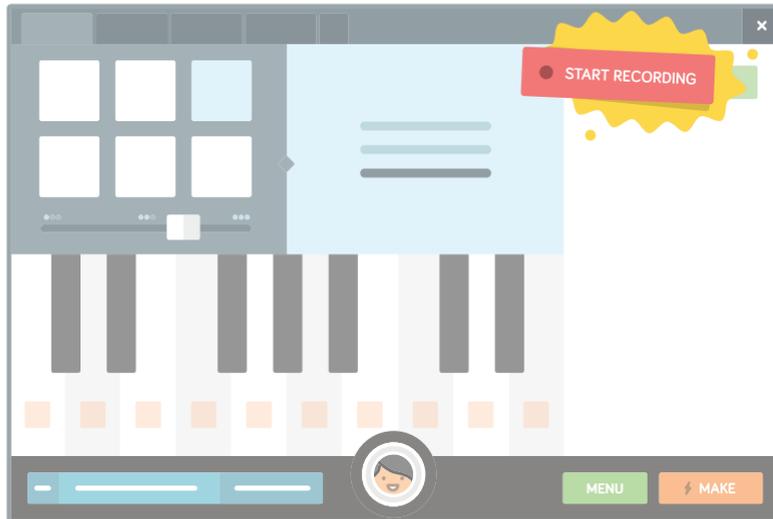
And watch them turn into code!

You can also type in your music...



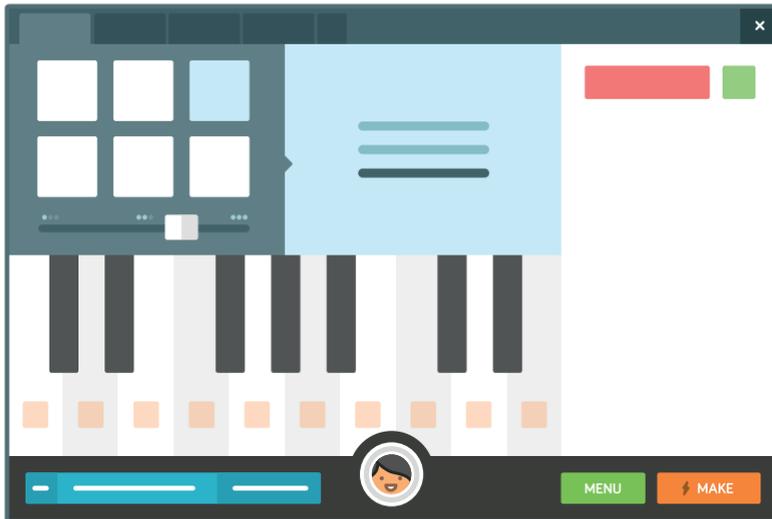
And press MAKE to play it back

Hit REC, then play notes on your keyboard...



...and save their code!

Follow the tips to beat the challenges...



You can change instruments and share your masterpiece!



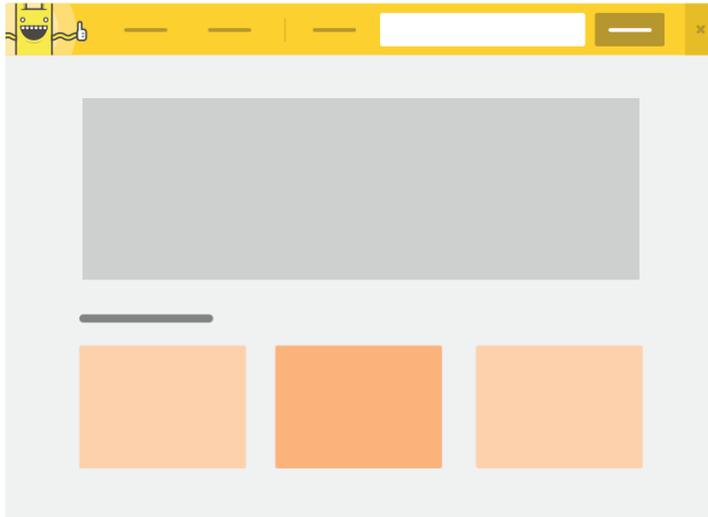
When you're ready, click MENU and Exit

Ready to turn on, tune in, and rock out?



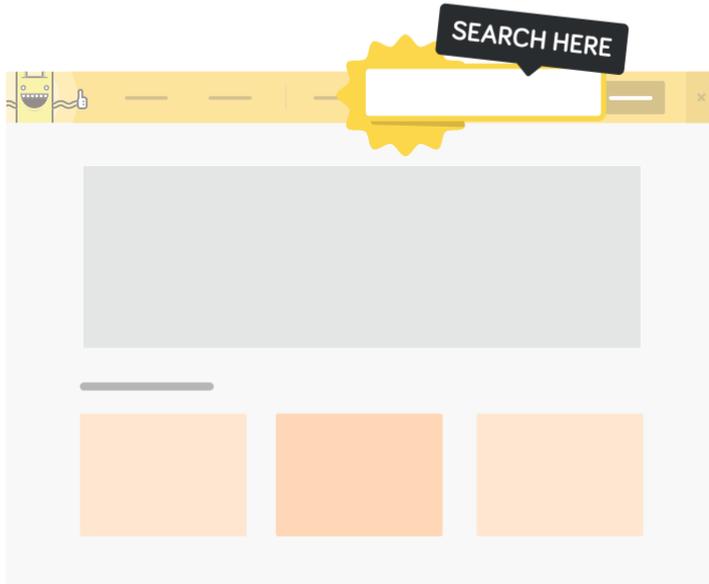
Click on the Video icon

The player can watch, save, and load videos and songs



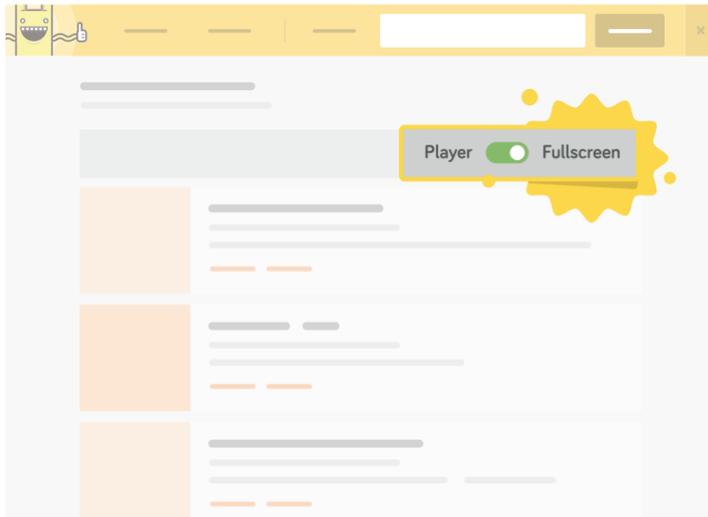
You can search all of YouTube, or files on your computer!

Try searching for KanoComputing



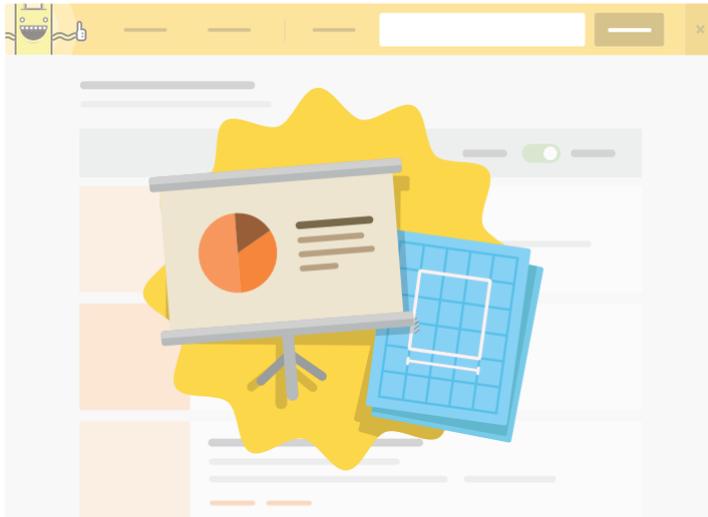
You can watch, listen, and save your favorites into a Playlist!

Choose a small player or fullscreen



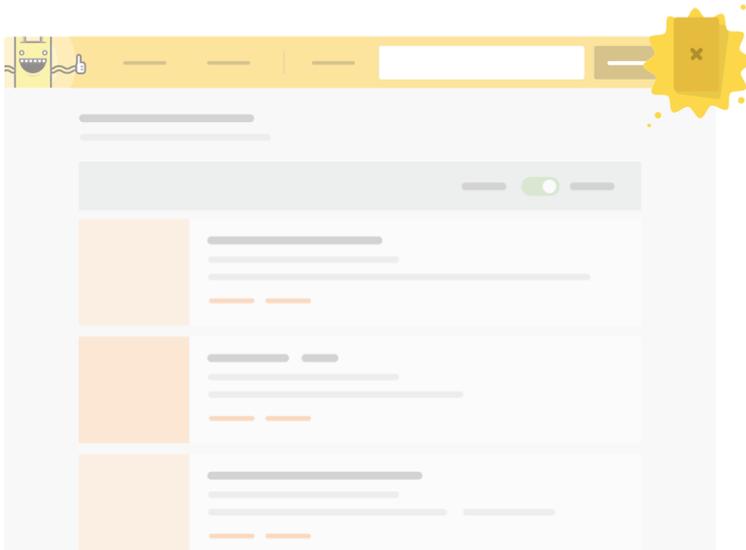
Then click Watch

And YouTube has almost every song in the world...

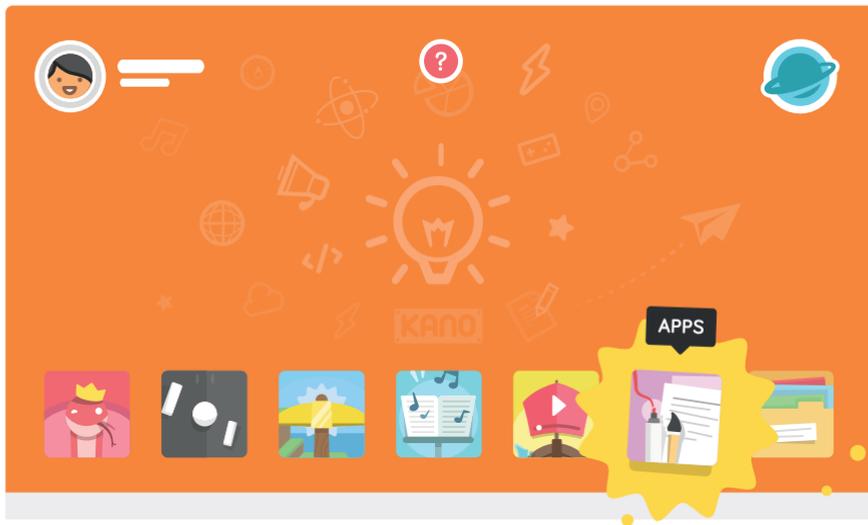


Plus lessons, stories, and projects

Click the upper right corner to close the player



There's no limit to what your Kano can do

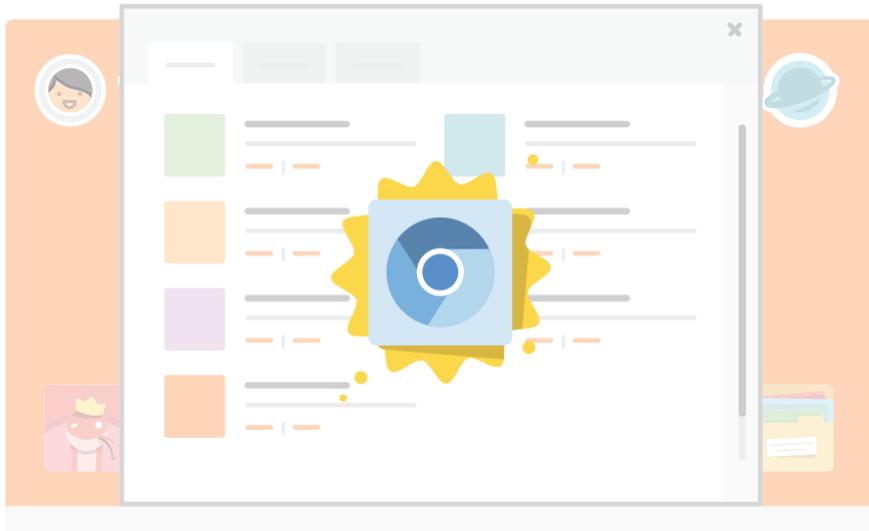


Click on Apps

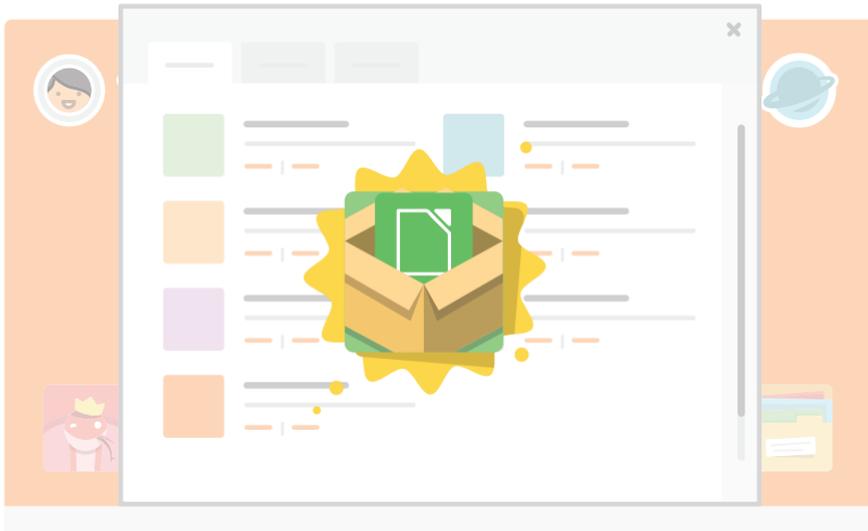
These apps let you draw, browse, code, calculate – and more!



Click on Chromium to browse the Internet

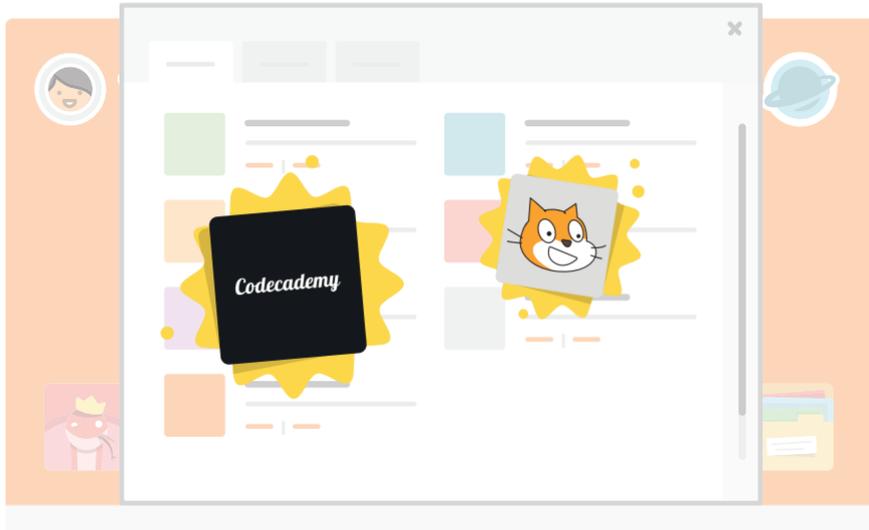


Want to get some work done?



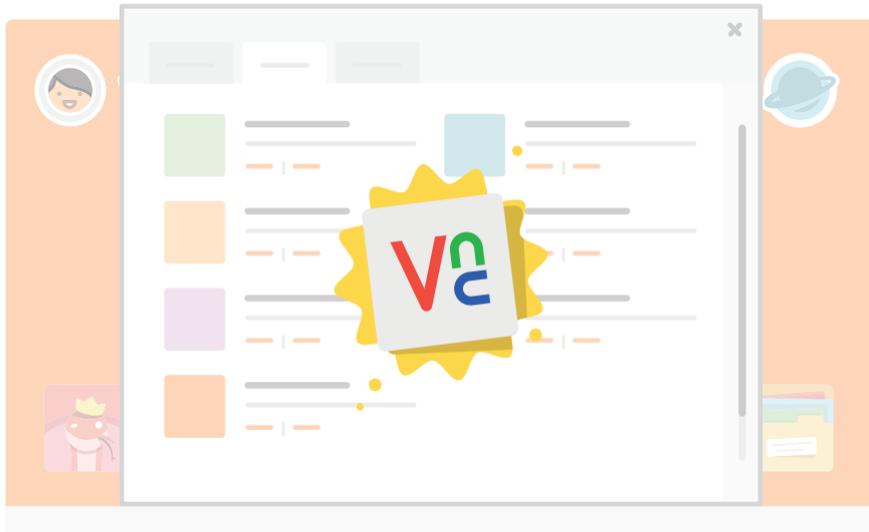
Click to install LibreOffice, with docs, spreadsheets, and more

Want to learn some more code?



Try Codecademy lessons or Scratch games

Want to use a phone or tablet as a Kano screen?



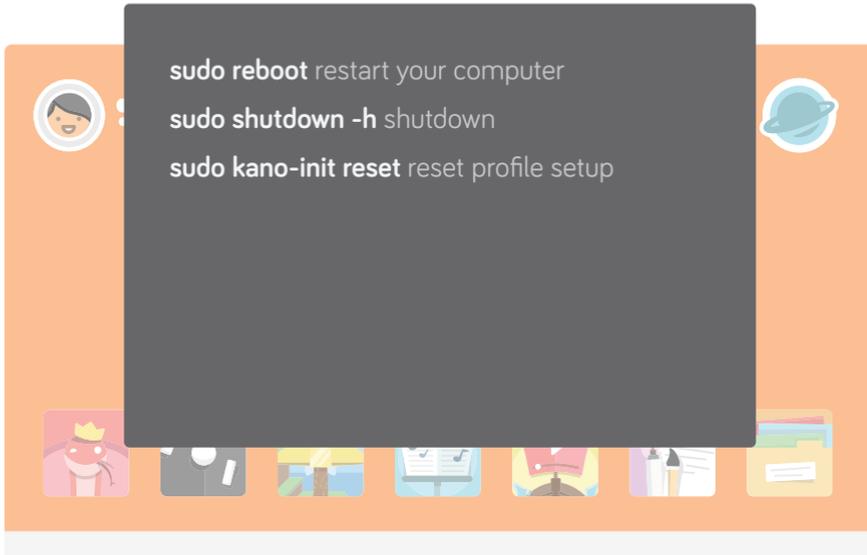
Click on VNC, and follow the onscreen instructions

Want to talk to your computer's brain? Open the terminal!



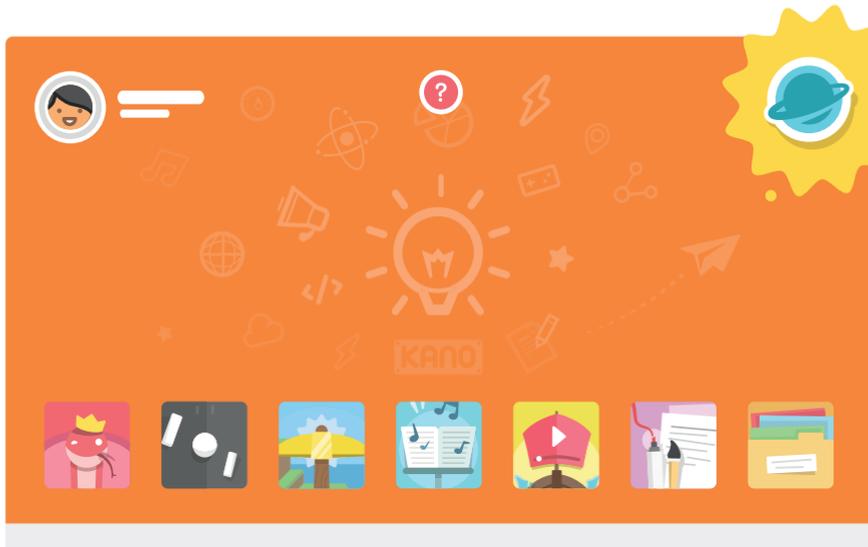
From here, you can control everything

Here are some useful commands



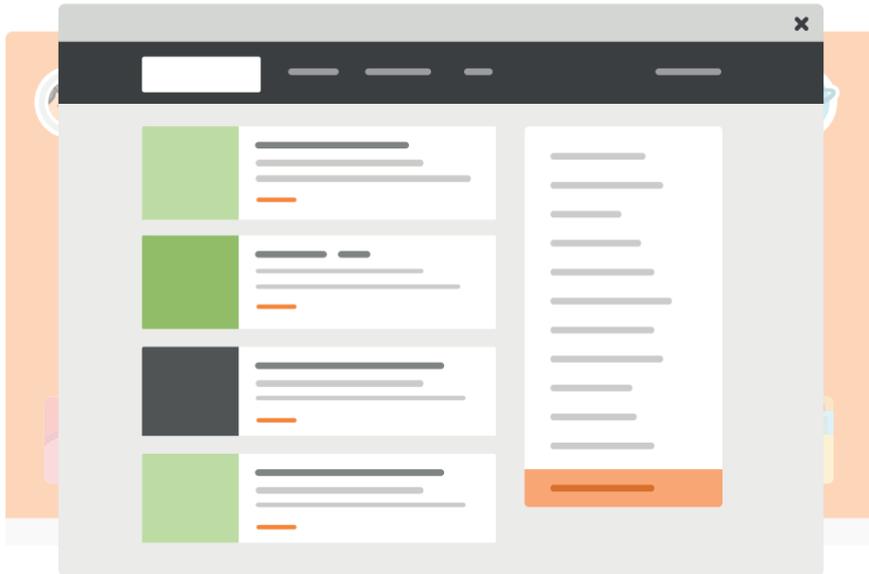
When asked, your password is "Kano"

Want to add new apps and share your creations?



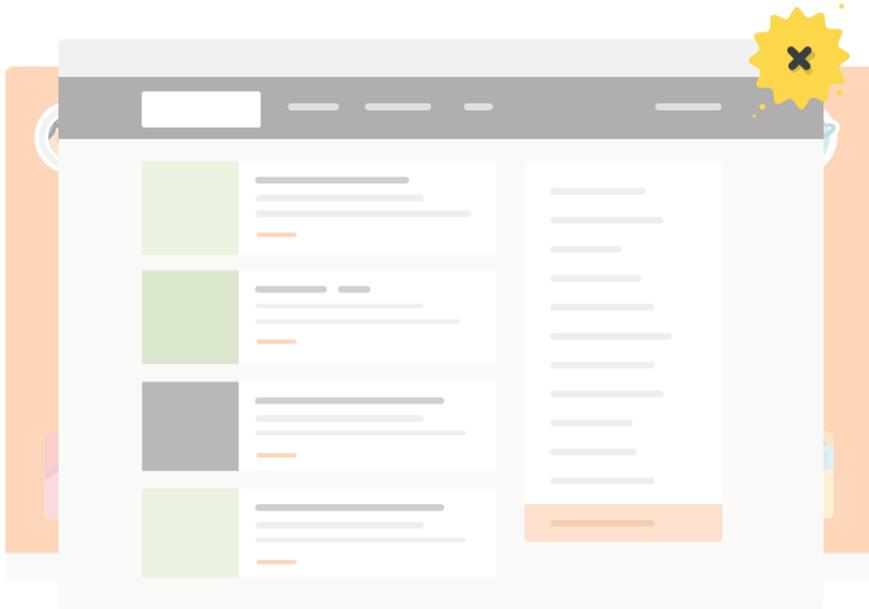
Click on Kano World

Chat with Kano creators



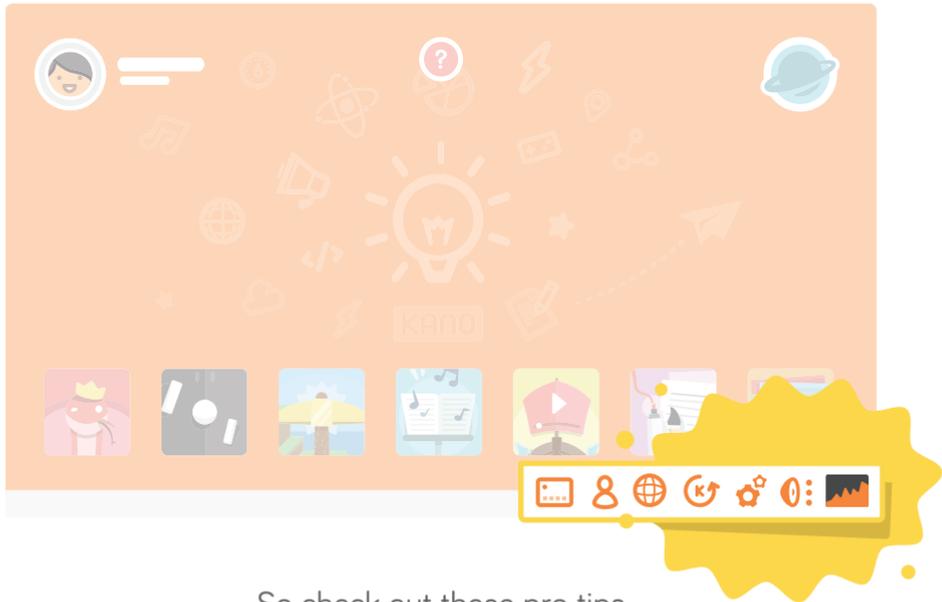
And download brand new challenges

Come back here often for new surprises!



For now, close World and check out your Desktop

You're almost a Kano Master...



So check out these pro tips



**Home** Jump back to desktop



**Profile** Log in, sync, backup, and restore your profile



**Internet Status** Check your connection



**Kano Updater** If it's orange, click to get new stuff!



**Settings** Change your setup



**Volume** Keep it bouncing



**CPU Monitor** If it's full, wait a few seconds

