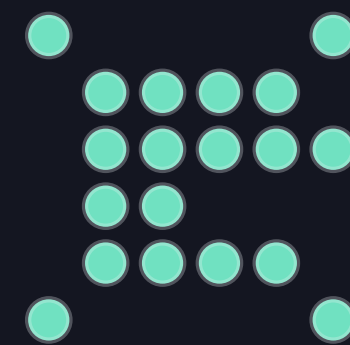
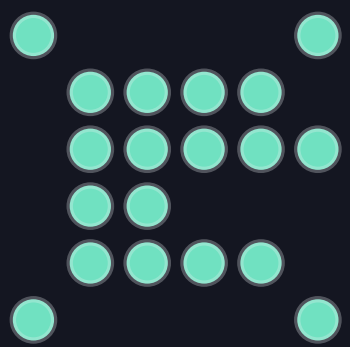




Board Designer



CHALLENGE: CREATE YOUR FIRST PIXEL



You will learn What Are Instructions, Sequences, and Repetition

You will make Pixel art

You will need Pico W / Pico 2 W · Pico Unicorn Pack

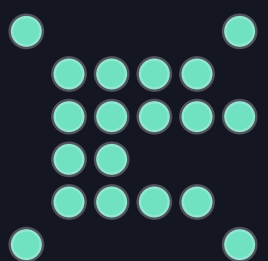
01 / CREATE

About 15 minutes

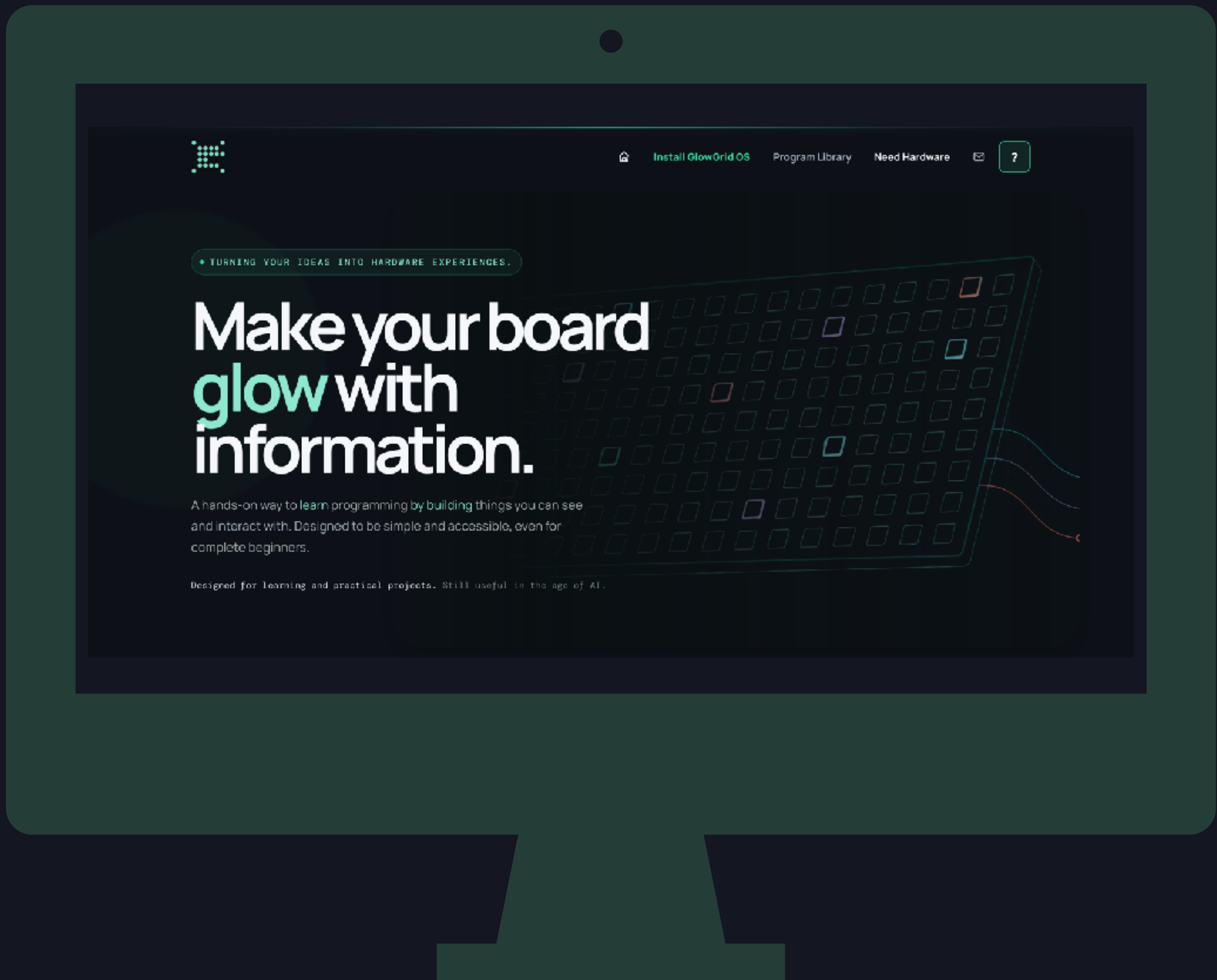
First steps

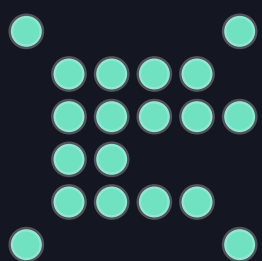
Create your own pixel art, bring it to life with a simple animation, and run it on your board. No programming experience required.



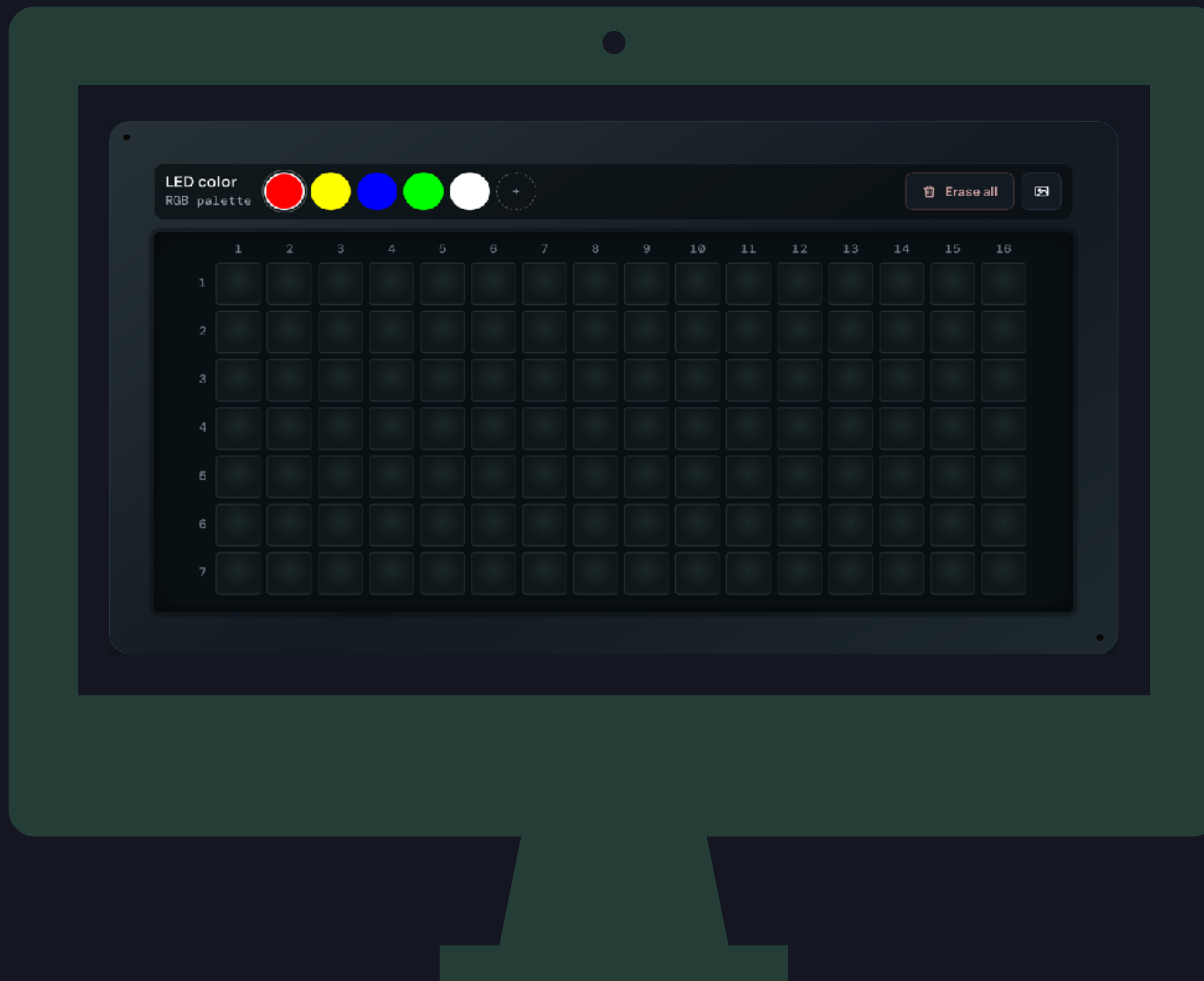


<https://glowgrid.nodes.ro>





Program Collection - Board Designer



Open Program Collection

Navigate to the Program Library using the top menu.

Open Board Designer

Open the Board Designer program.

Select a color from the LED color palette

Select a color, then click a position on the board.

Select Prepare Board

Send your program to the board using Wi-Fi or a wired USB connection.

See the result

The pixel lights up on your hardware board in the color you chose.



Send it to your board

Loading a program to the board </> Prepare Board

In Board Designer, select Prepare Board button.

Confirm your hardware configuration.

Choose Wi-Fi or USB cable and follow the connection instructions.

Send the program to your board and keep the board powered.

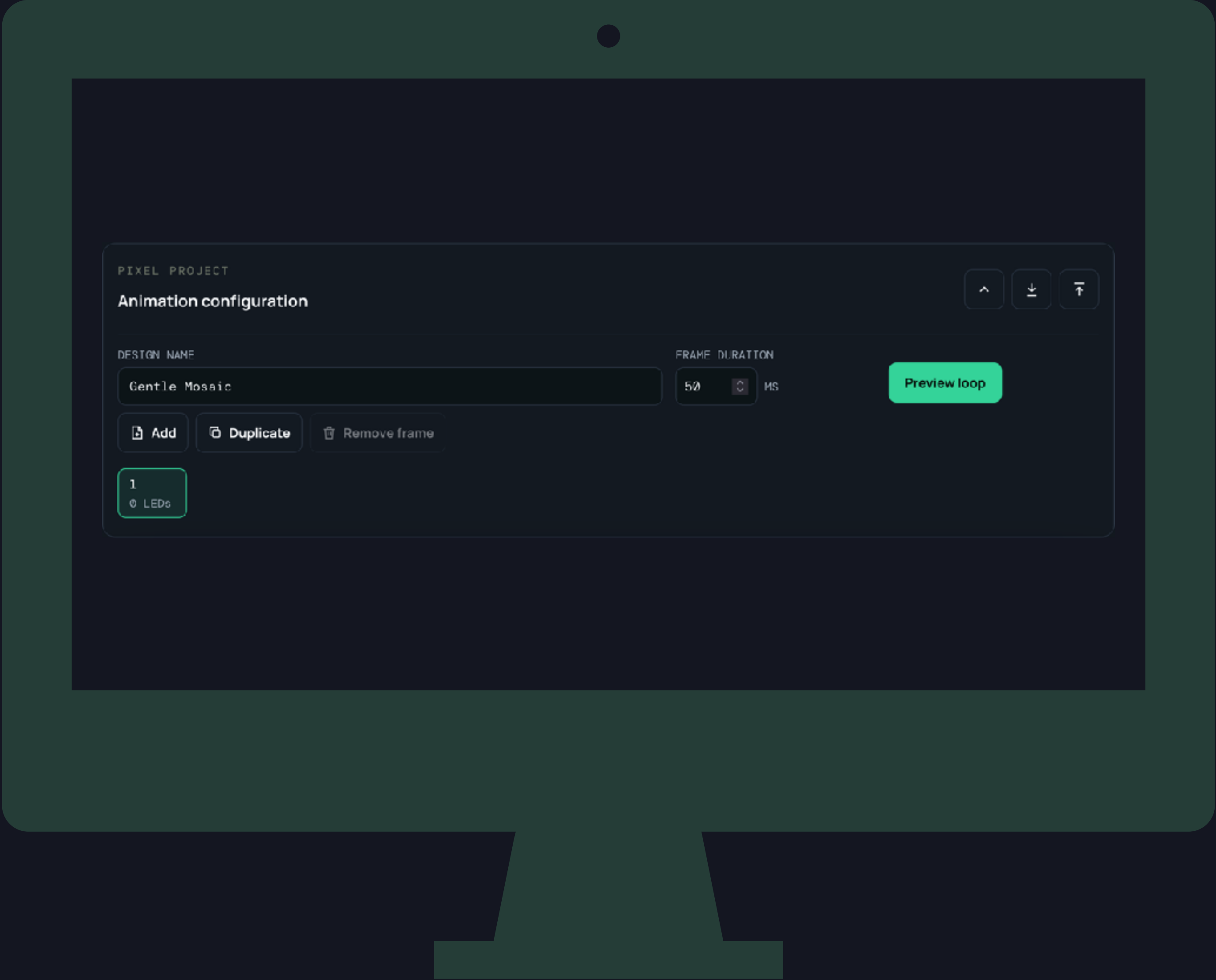
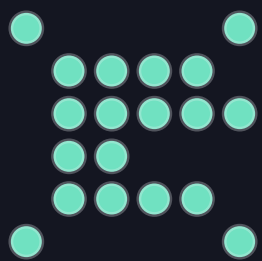
Wait until GlowGrid confirms that your program is running.

What have you learned?

Instructions

You're already giving the board an instruction. Light up a LED with the color you selected.

A program is a collection of clear instructions. Your picture tells the board which pixels to light and which colors to use.



Animation

Make it move

Select **Duplicate** to copy your first frame.

Change a few pixels in the copied frame.

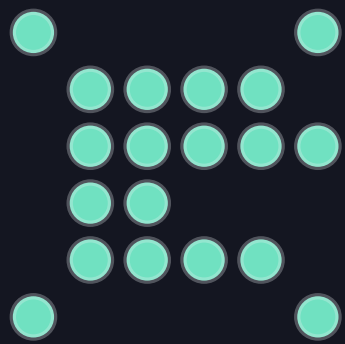
Set the **Frame duration** to control how long each picture stays visible.

Select **Preview loop** to watch the frames play in order.

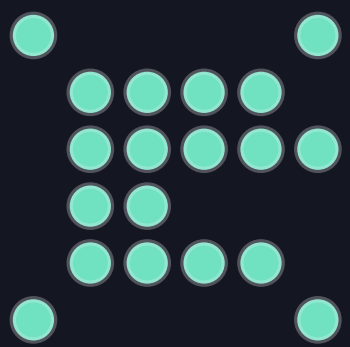
What have you learned?

Sequence and Repetition.

The frames run in order(sequence), then loop back. After the last frame, the sequence begins again, this is called repetition.



02 / EXPERIMENT AND IMPROVE



CONGRATULATIONS

Let's talk

Need a hand with GlowGrid?

Drop us a line – we'd love to hear from you.

info@nodes.ro

