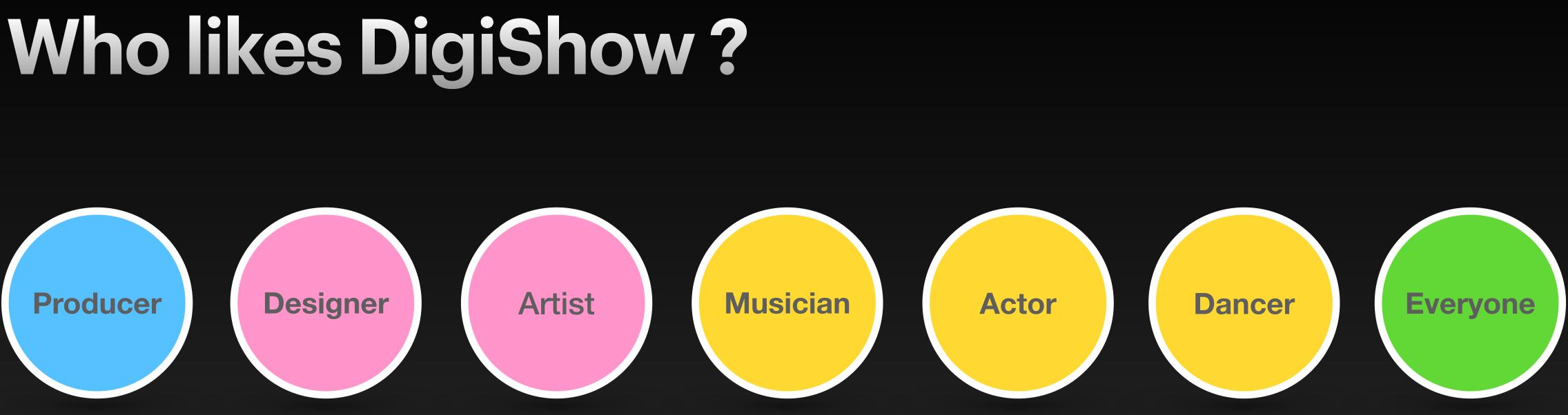


Learning Dig Show



Basic Concepts

Robin Zhang and Labs 2025



Suppose you are an immersive show producer, or an interactive media designer, artist, musician, theater person, dancer, magician or none of the above. We hope to discuss with you all: To consider objects, spaces, people and systems as co-performers. We want to use DigiShow to provide an easier workflow. Even for an ordinary person, every daily scene in life may be transformed into your mini 'disneyland'.

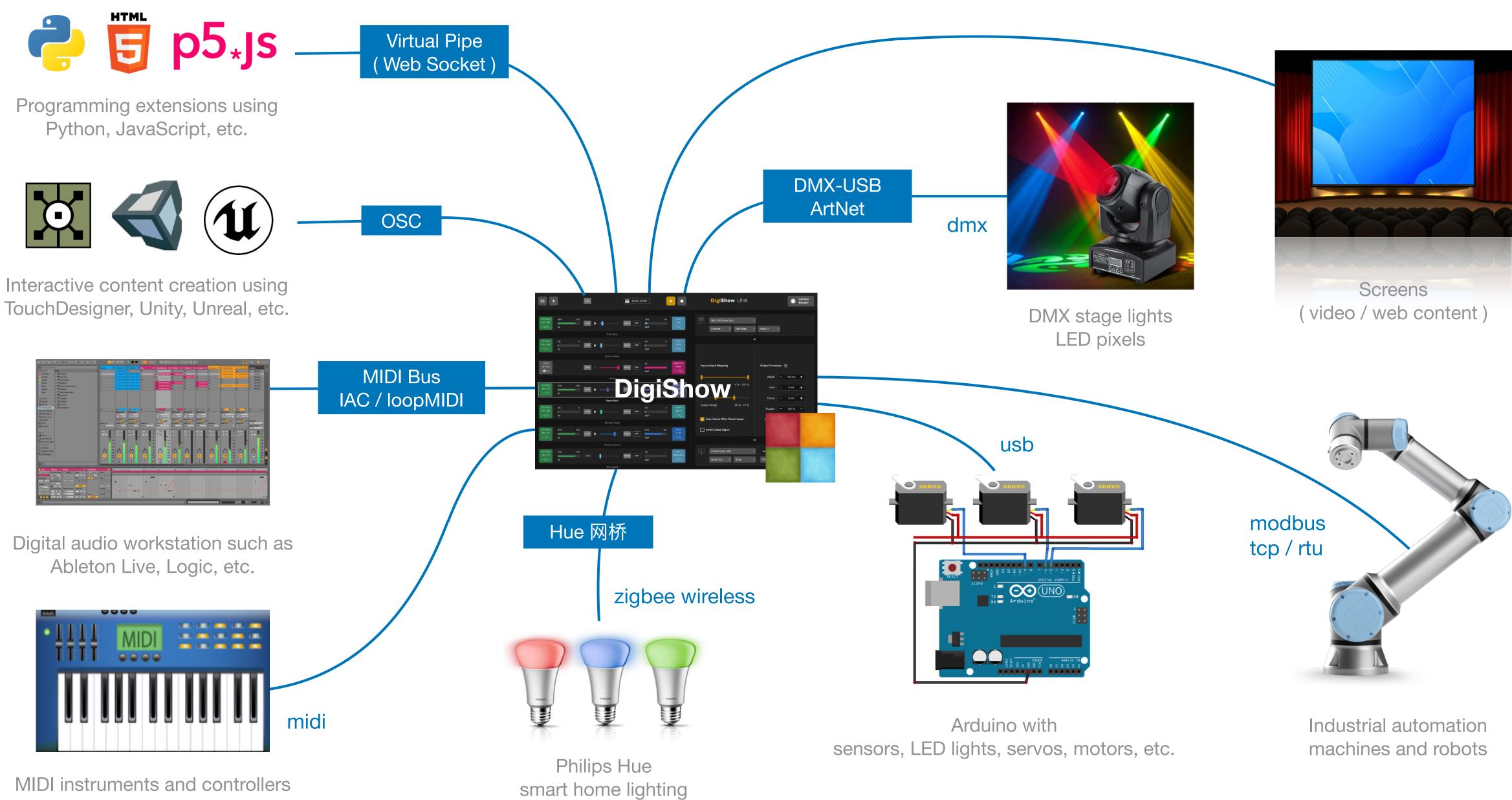
What is DigiShow?

DigiShow is a lightweight control software designed for **performance scene** and **immersive space** with music, lights, displays, robots and interactive devices.



It serves as an easy-to-use **signal console**, also enables **signal mapping** between MIDI, DMX, OSC, ArtNet, Modbus, Arduino, Philips Hue and more digital interfaces.





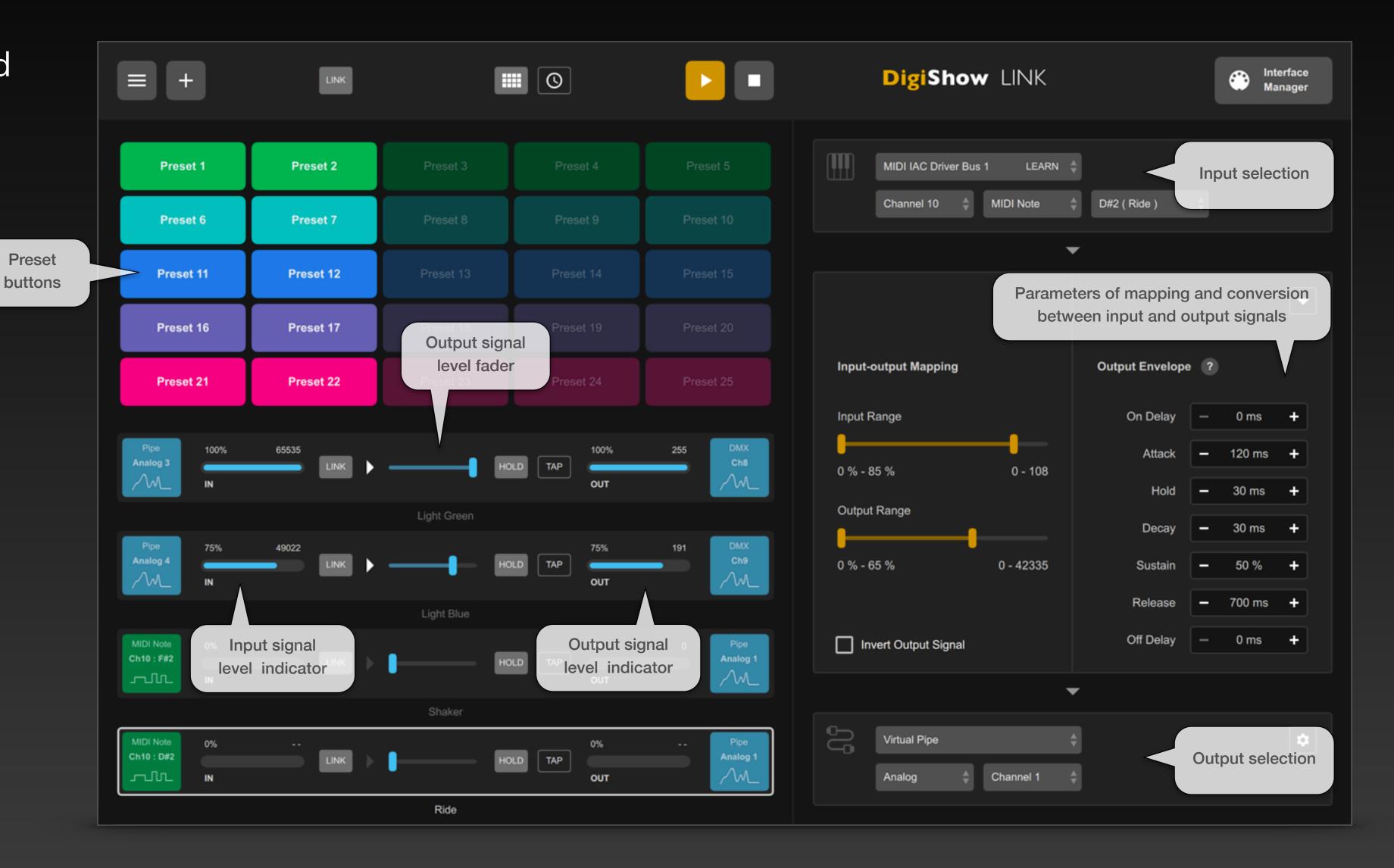
DigiShow Signal Console

DigiShow itself is a simple and easy-to-use console software used to control various crossmedia signals.



Comparison with lighting console

Lighting consoles generally only control stage lighting, DigiShow supports more signal types.



DigiShow Signal Mapping



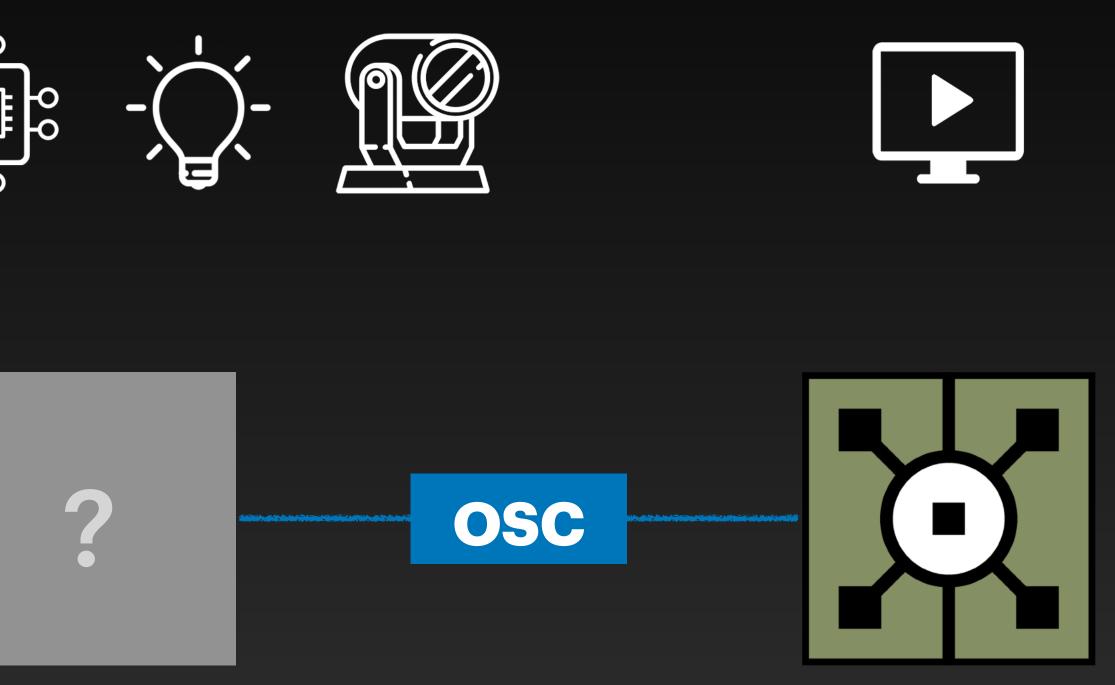
MIDI





Ableton Live

Enables signal exchange between various hardware and software



DigiShow

TouchDesigner

DigiShow Signal Mapping ! What do we create ?

Signal Mapping Example 1 Dancing Ink (ferrofluids)

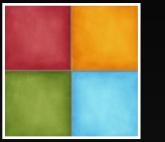


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Arrange and play drum rhythms and output MIDI signals synchronously







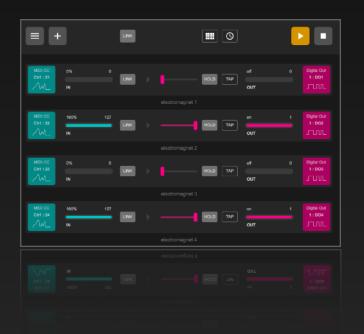


Ableton Live

DigiShow

Arduino

OUT	2 Drums		3 Z
	►	Conga and Tam	►
		Bouncy-117bpr	
		Egypt-92bpm	
		Break Booty-13	



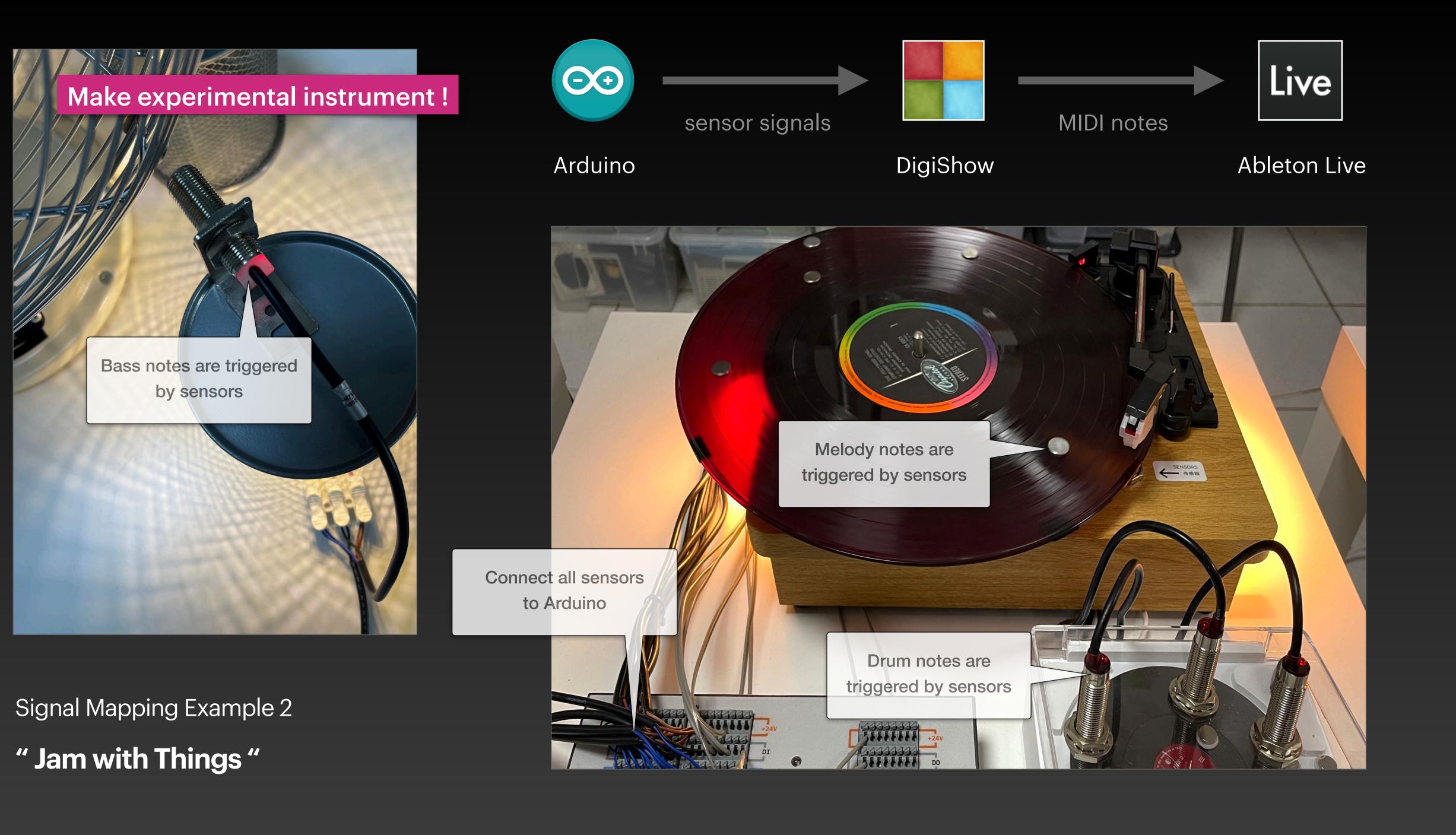
Receive MIDI signals and map them to Arduino IO switch signals

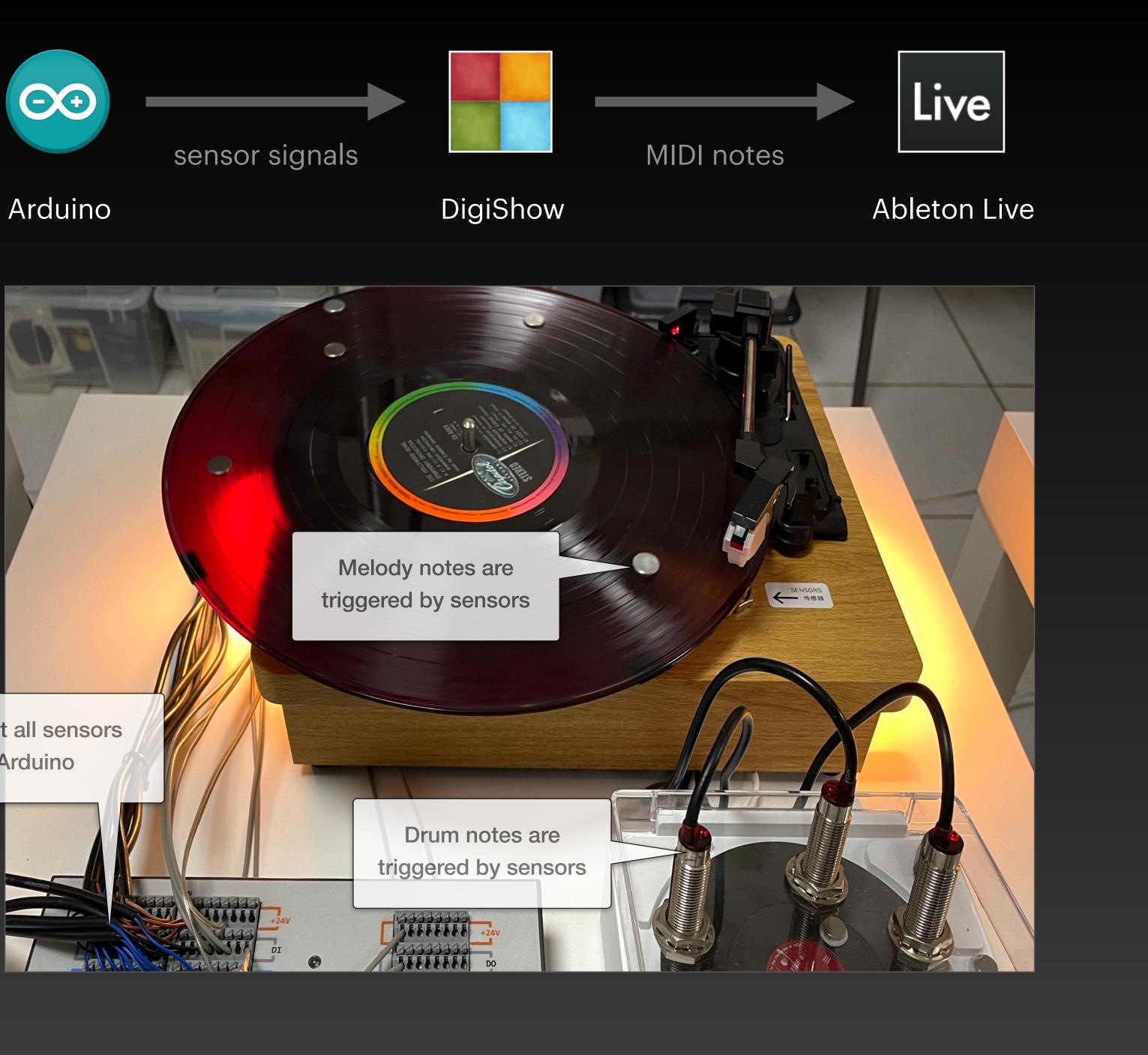


Receive switch signals to drive the connected electromagnets

Completely no coding required!





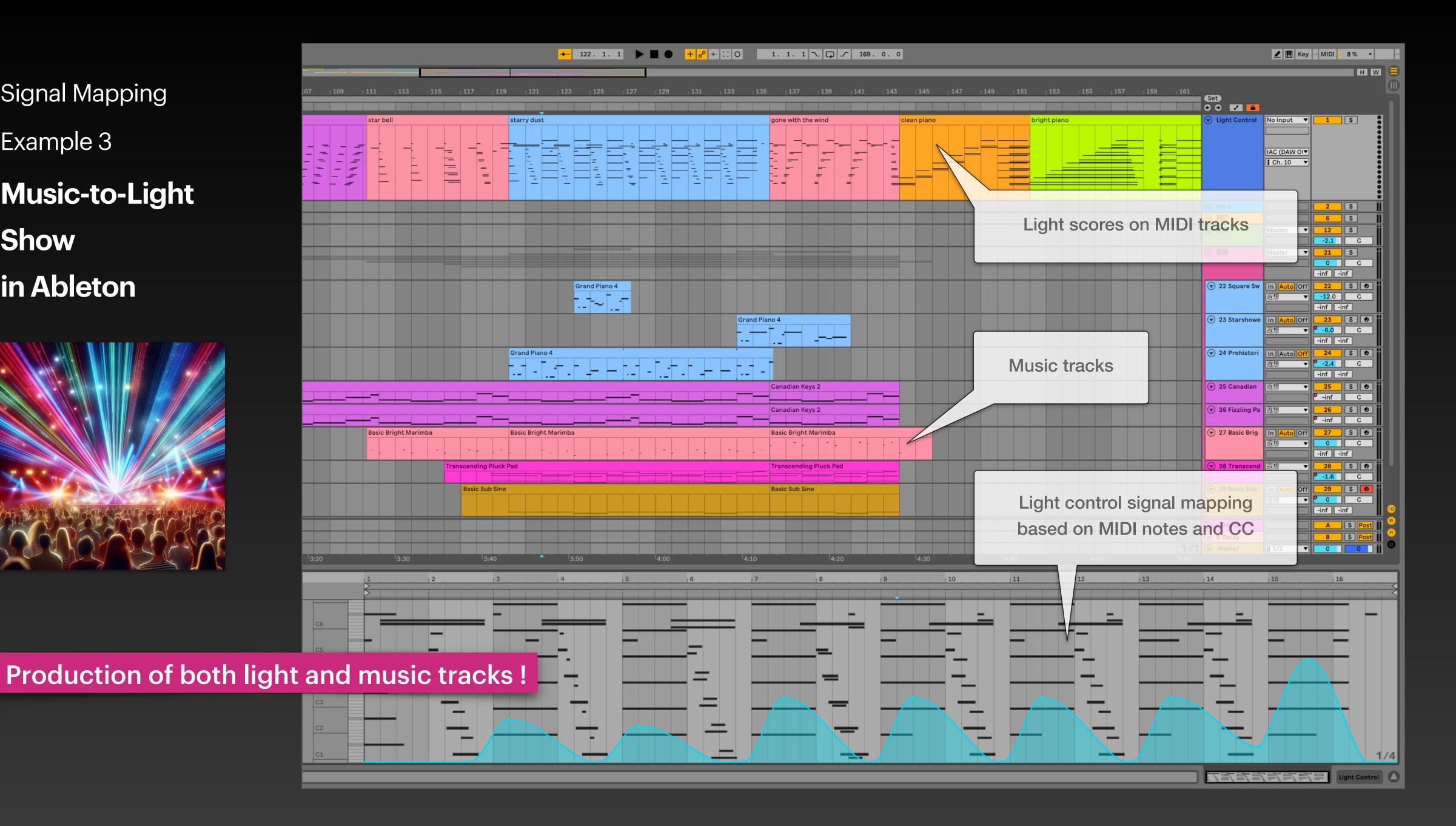






Signal Mapping Example 3 **Music-to-Light** Show in Ableton





DigiShow Application Fields

- Interactive media art installations
- Interactive performance props, experimental musical instruments
- Cue control for small stage, linking audio, lights, screens, props
- Scene design for immersive spaces (shows or games)
- Scene design for parties and public events
- Scene design for smart homes or daily life environments

DigiShow Design Philosophy

• All are performers

DigiShow requires a group of hardware and software playing their own roles to work together. They are all considered as co-performers along with objects, spaces, people and systems.

• The creator is the **director** hardware and software to direct the performance.

Through DigiShow, we share the language to communicate with various



Learning DigiShow

1 Basic Concepts2 Installation and Basic Usage3 Signal Mapping4 Common Operations

5 Artistic Lighting Applications
6 Digital Music Applications
7 Interactive Applications
8 Expressions and Scripts