

Learning DigiShow

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Basic Concepts

Robin Zhang and Labs 2025

Who likes DigiShow?



Suppose you are an immersive show producer, or an interactive media designer, theater artist, dancer, musician, 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.

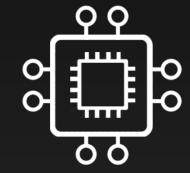




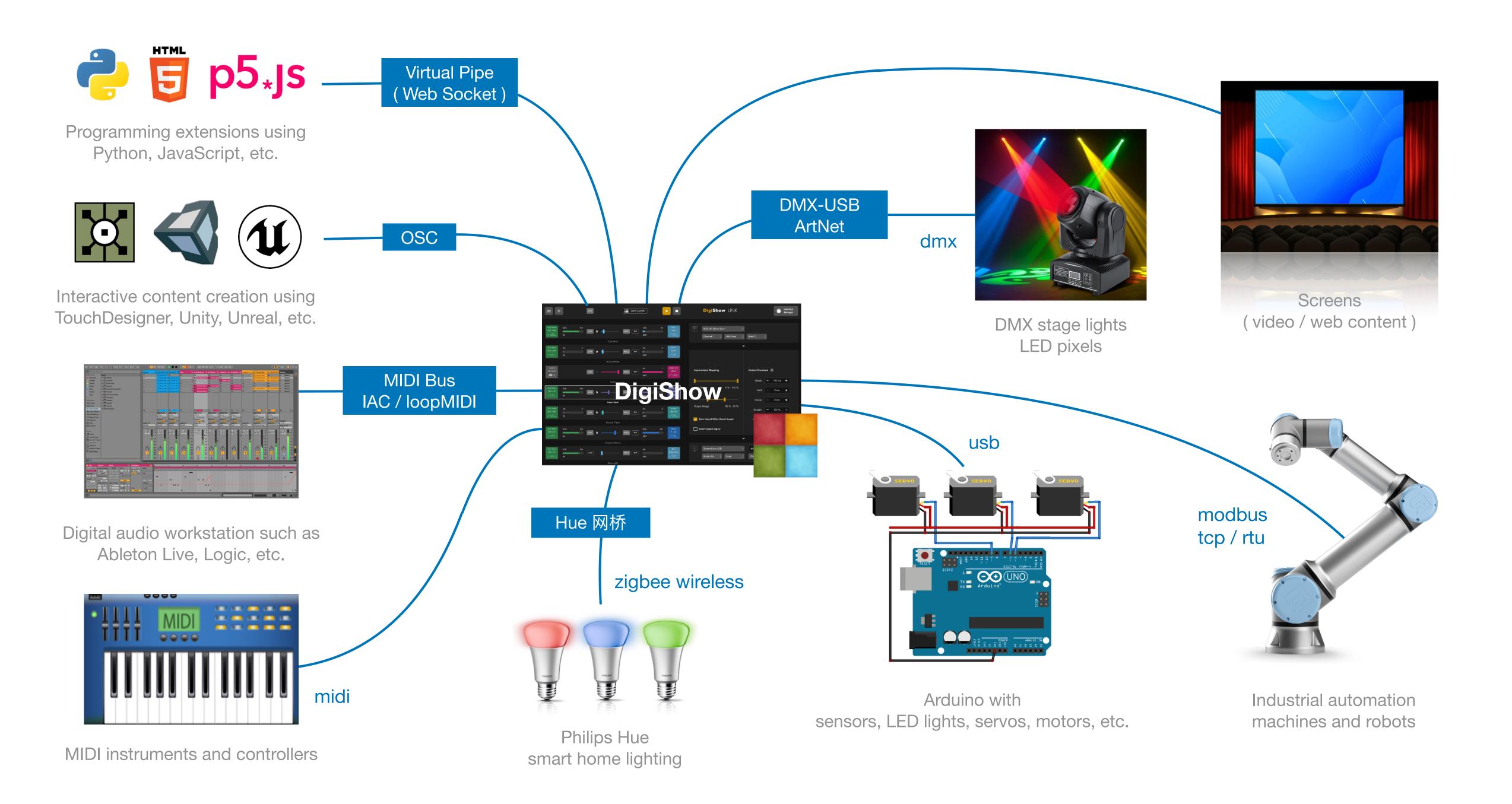








It serves as an easy-to-use signal console, also enables signal mapping between MIDI, DMX, OSC, ArtNet, Modbus, Arduino, Philips Hue and more digital interfaces.



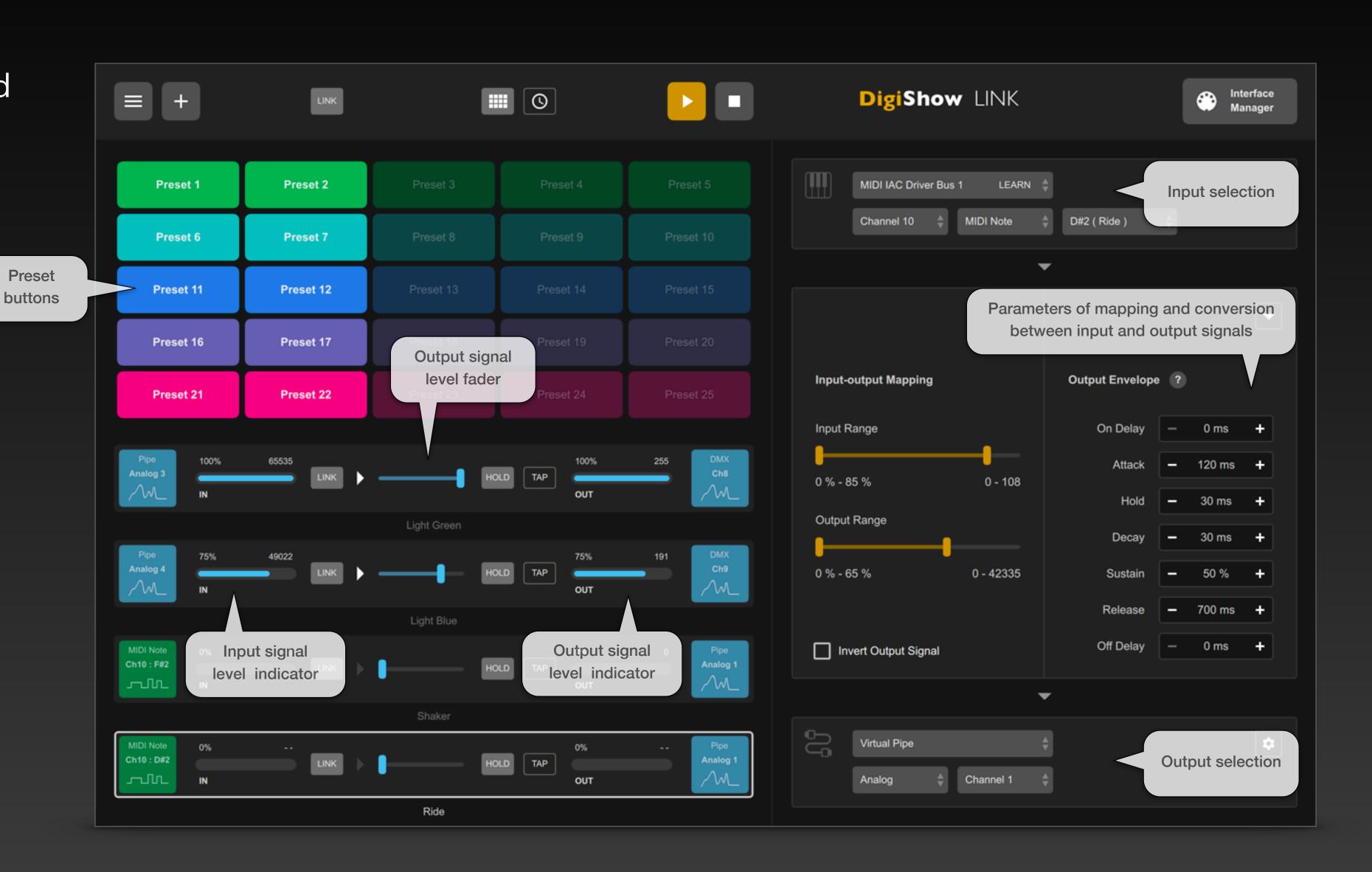
DigiShow Signal Console

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

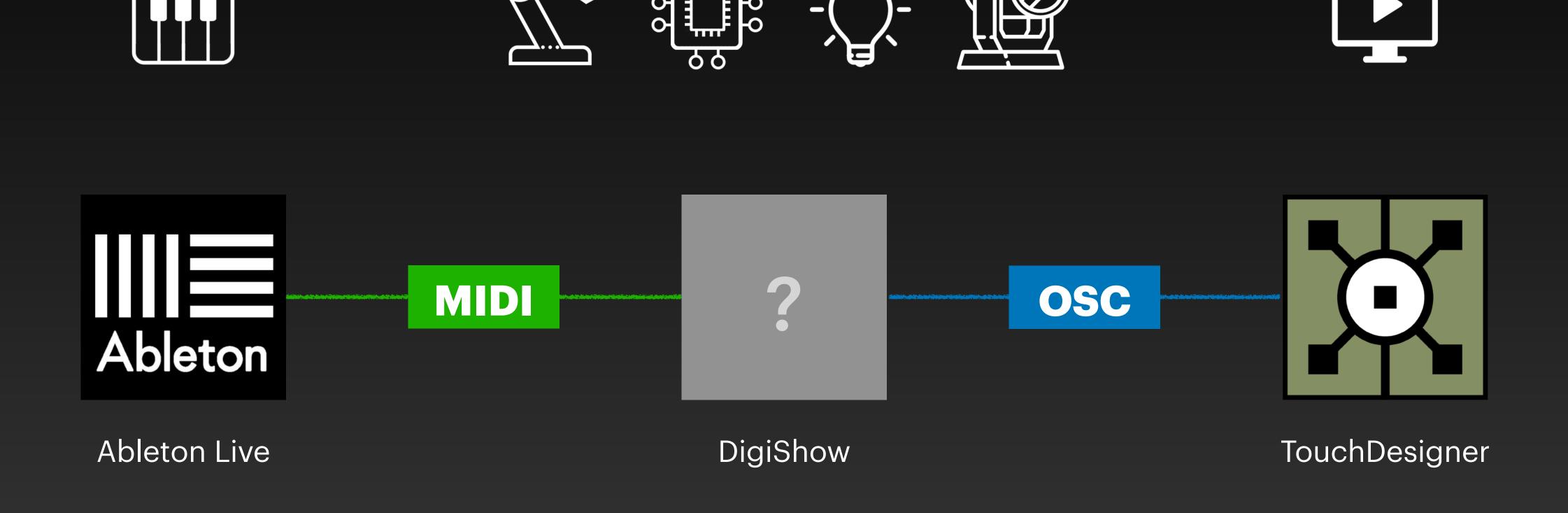


Comparison with lighting console

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



DigiShow Signal Mapping



Enables signal exchange between various hardware and software

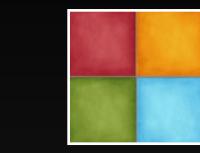
DigiShow Signal Mapping! What do we create?

Signal Mapping Example 1

Dancing Ink (ferrofluids)











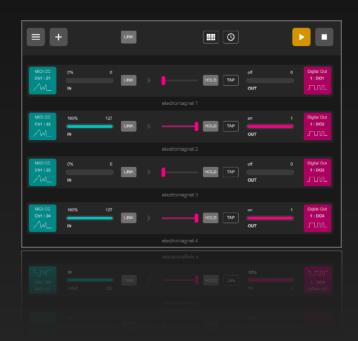
Ableton Live

DigiShow

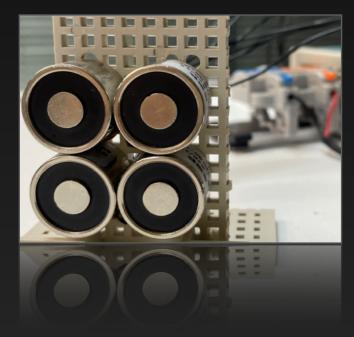
Arduino



Arrange and play drum rhythms and output MIDI signals synchronously

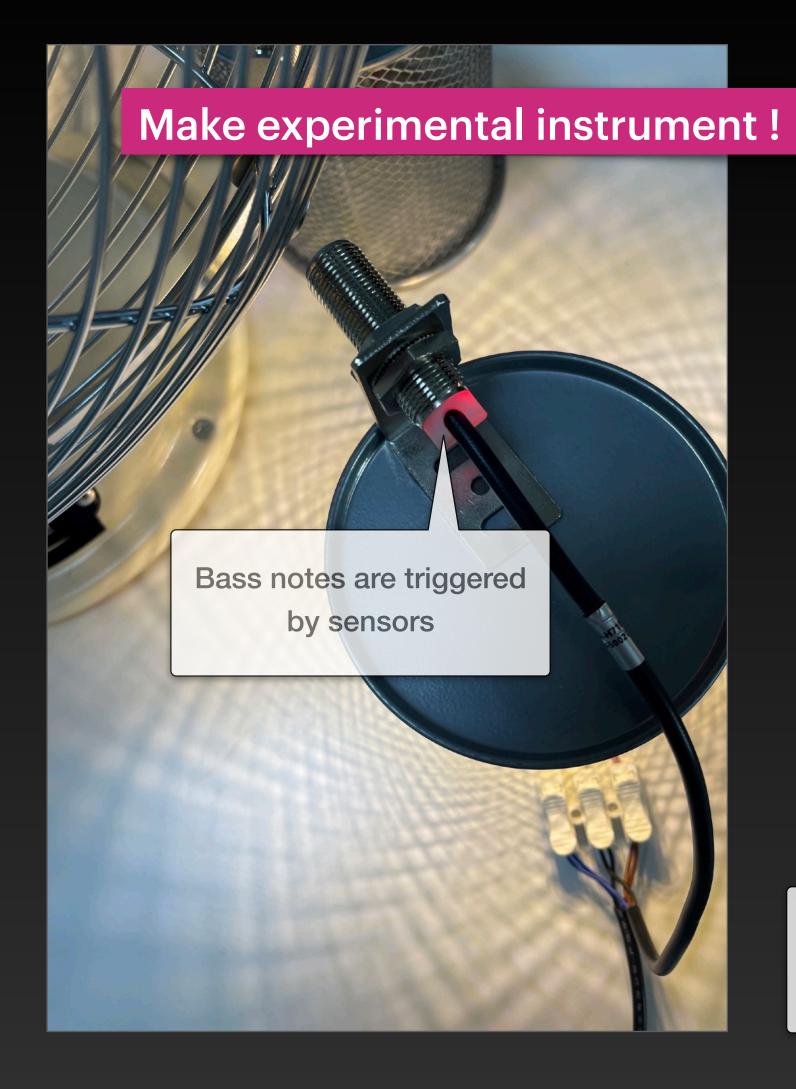


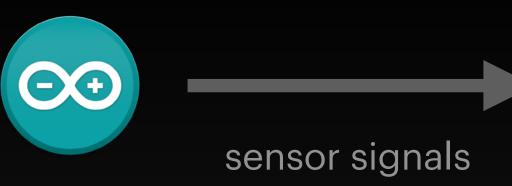
Receive MIDI signals
and map them
to Arduino IO switch
signals



Receive switch
signals to drive the
connected
electromagnets

Completely no coding required!







MIDI notes



Arduino DigiShow

Ableton Live



Signal Mapping Example 2

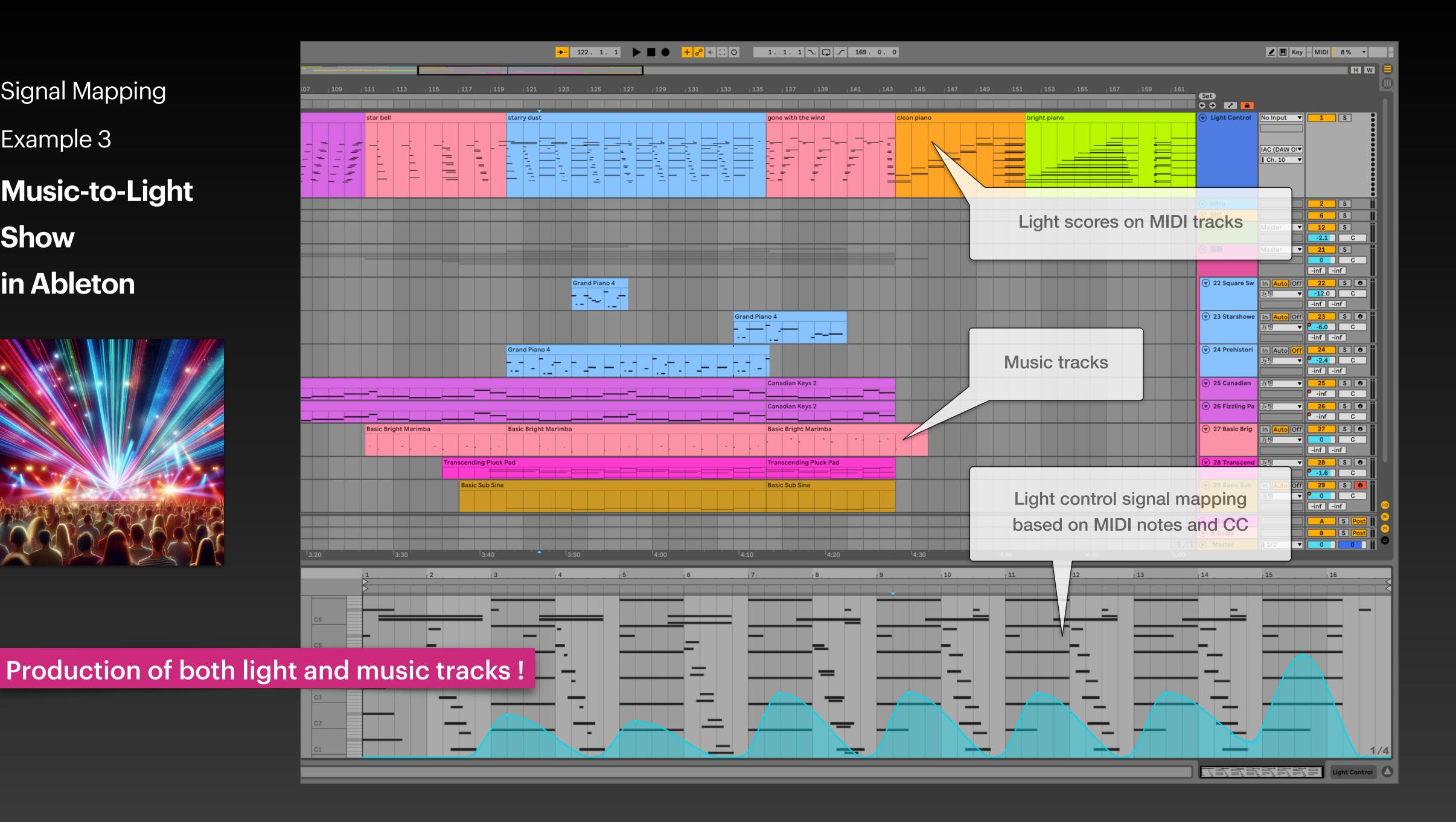
"Jam with Things"

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

Through DigiShow, we share the language to communicate with various hardware and software to direct the performance.

Learning DigiShow

1 Basic Concepts 5 Artistic Lighting Applications

2 Installation and Basic Usage 6 Digital Music Applications

3 Signal Mapping 7 Interactive Applications

4 Common Operations 8 Expressions and Scripts