What is the Twists card?

Twists is a port of the Mutable Instruments Braids - a voltage-controlled monophonic digital sound source.

Tap the switch down to toggle between models.

Use the X and Y knobs and Audio In 1 & 2 to change the Timbre and Color.

Use the web configuration tool to set the 6 models from the 47 available.
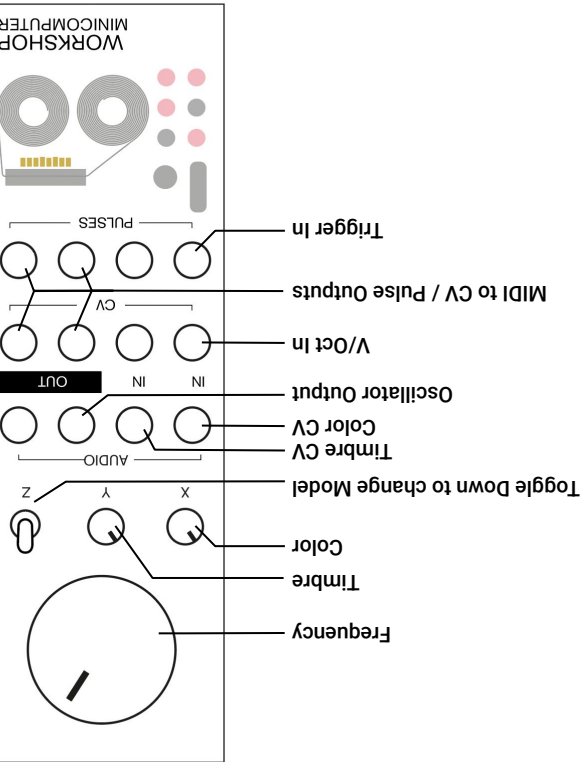
Twists also features MIDI support over USB and provides 2 additional MIDI to CV/Pulse channels.

Almost all code is copyright Emilie Gillet with additional insights taken from Chris Johnson's Reverb code.

Twists

A port of Mutable Instruments Braids
By Random Works Rev 0.1 Nov 2024

- Trigger In
- MIDI to CV / Pulse Outputs
- V/Oct In
- Oscillator Output
- Color CV
- Timbre CV
- Toggle Down to change Model
- Color
- Timbre
- Frequency

Web Configuration

To select the 6 models and change other settings, connect a USB cable from the Workshop Computer to a computer and open the twists.html file in your web browser. When prompted, allow access to MIDI.

Changes made in the browser are applied to the module immediately. Click the Save button to store them on the card so they will still be there after you power off the system.

If AD VCA is enabled, you will need to apply a trigger to Pulse In 1 to trigger the internal envelope.

The web configuration page can also be used to configure MIDI channels for the synth engine and additional 2 MIDI to CV/Pulse outputs.

Calibration

You can calibrate CV Input to improve accuracy:

1. First calibrate CV Output using the MIDI card.
2. Patch CV Out 1 to CV In 1.
3. Hold the toggle switch down and press and release the reset button near the card slot (LED1 will flash).
4. When ready, release the toggle switch and tap it down again to start (LED2 will remain lit).
5. After around 10 seconds calibration will end and LED1 will be lit. Settings are saved on the card for future use.