Mutable Instruments — Branches

- Manual PDF

Branches Manual (PDF)

Mutable Instruments Branches – Cheat Sheet

Dual Bernoulli Gate
Purpose: Route incoming triggers/gates to one of two outputs with voltage-controllable probability, or as a toggle/latchable switch.

Input/Output & Controls Reference

Label	Type	Description	Voltage Range
IN (1, 2)	Input Jack	Trigger/gate input (Section 2 normalled to Section 1)	Standard trigger/gate
PROB CV (2)	Input Jack	CV for probability control (per section)	0V–5V
OUT A (3)	Output Jack	Trigger/gate output "A"	+5V
OUT B (4)	Output Jack	Trigger/gate output "B"	+5V

Knob:
- **Probability Knob (A):** Adjusts probability between outputs A and B (higher = more to A).
- Counterclockwise: Output B only
- Center: 50/50 random
- Clockwise: Output A only

Button:
- **Switch (B):**
- Quick press: Toggle "Toggle Mode" (output flips only when tails).
- Hold (>1s): Toggle "Latch Mode" (output stays high until next trigger on opposite output).

Modes

- **Classic (Bernoulli) Gate:**
- Each input trigger randomly routed to OUT A or OUT B based on probability knob/CV.
- In extremes, acts as a VC switch.
- **Toggle Mode:**
- Outcome decides whether to keep outputting to the same jack, or flip to the other.
- **Latch Mode:**
- OUT A or OUT B stays high (+5V) until the other output is activated.

Power and Other Specs

- **Power:** +12V: 10mA, -12V: 1mA
- **Connect power cable so the red stripe (-12V) matches the marked side on the PCB!**

Useful Links

- Branches Full Manual
- Mutable Instruments Forum

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