1 | 2 Adder inputs
The thread starts running with inputs 1 and 2 that are added together while maintaining 1V/Oct scaling.

3 | 4 Attenuverter input & knob
Next on the thread is the jack-and-knob-combo. Input 3 is multiplied by knob 4 and added to the thread. The knob turns from -1 counterclockwise to +1 clockwise. With the knob in the middle position you add nothing of input 3 to the thread.

5 Offset knob
With this knob you can add -5V counterclockwise up to +5V clockwise to the thread.

6 Multiple outputs
Here the thread splits into three buffered outputs. One output has an LED that lights up when it has a positive signal.

7 Inverted output
This output gives you an inverted version of outputs 6 and also has an LED that lights up when it has a positive signal; which is equal to a negative signal on outputs 6.

VCA 8 | 9 inputs | 10 output
Knot a VCA on the thread. CV input 8 defaults to outputs 6 and is multiplied by audio input 9 into VCA output 10. Input 8 does not thread negative signals and will move them up to zero.

Ardabil

The rug that ties your rack together

Utility Module

This module has all the things you need to shape and mix your signals. Two threads to weave and knot your sound together. The threads run in rotational symmetry.

One thread contains:

Adder **+** Attenuverter **+** Offset ⟶ *Buffered Outputs*

Buffered Output ***** -1 ⟶ *Inverted Output*

CV *(default is Buffered Output)* ***** Audio ⟶ *VCA Output*

We hope this Ardabil will sit in the middle of your rack and can be a support structure to weave your signals on in interesting ways. Beep!

THIS IS NOT ROCKET SCIENCE