

**IN THIS SCENE YOU'RE A GEEKY GUY WITH
ALL THIS MODULAR SYNTH STUFF**

ACT COOL

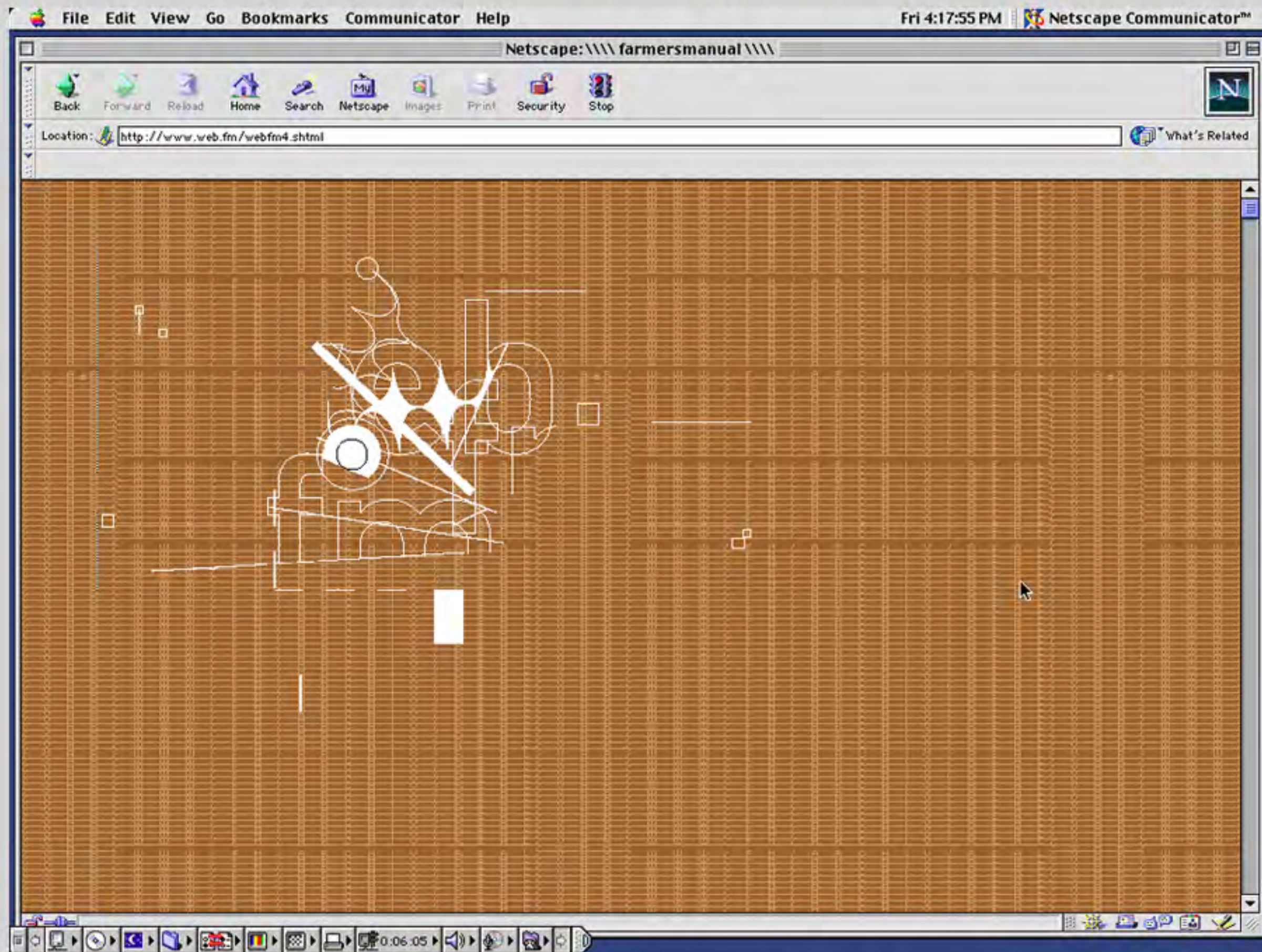
Live Coding Modular Synths

Hello :)

Live Coding Modular Synths



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<http://web.fm/>

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but...

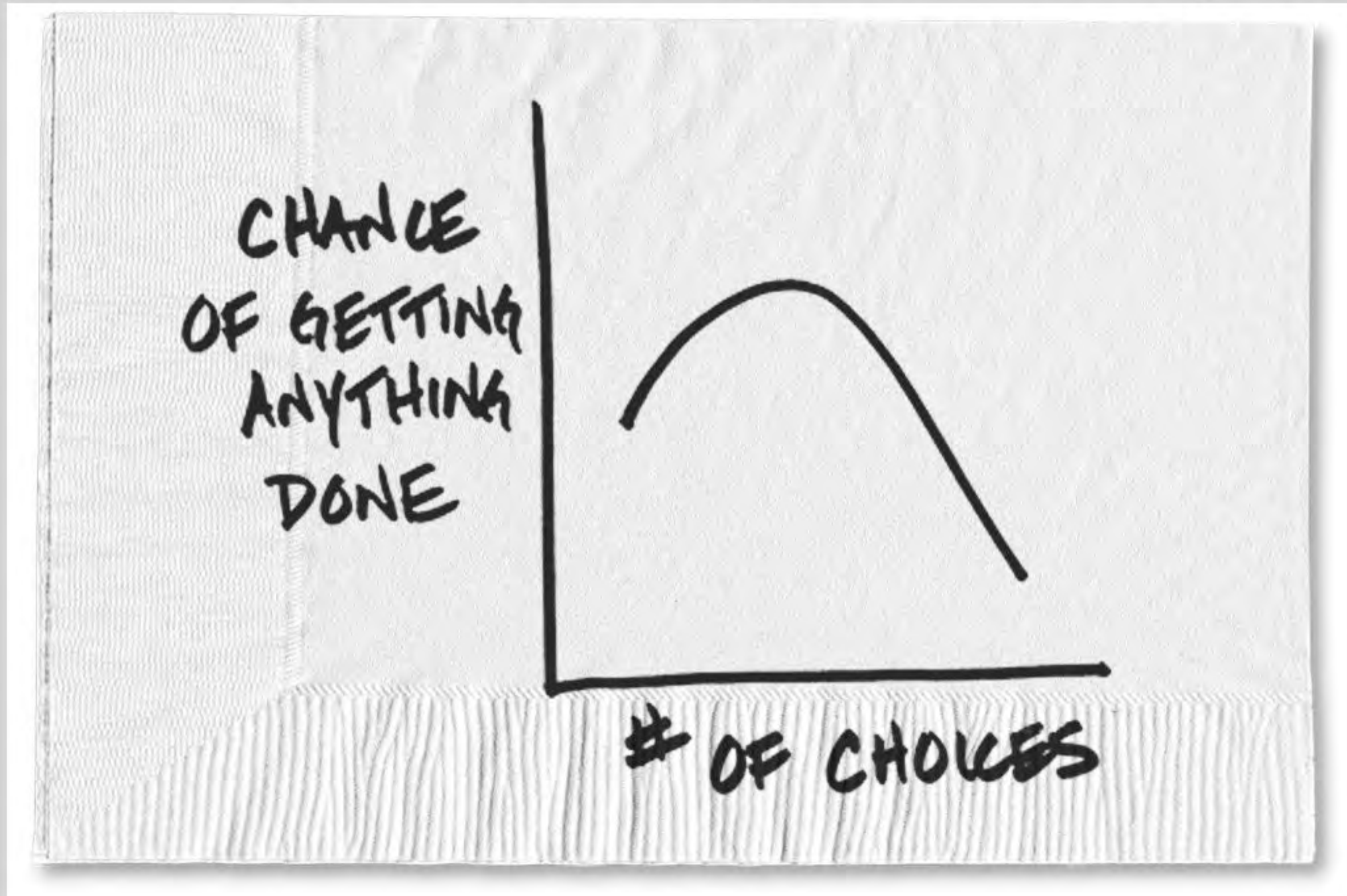
Live Coding Modular Synths

**I found I kept
software & hardware
apart from each other.**

Live Coding Modular Synths



Live Coding Modular Synths



(image: <http://www.nytimes.com/2014/01/21/your-money/the-trap-of-too-many-choices.html>)

Live Coding Modular Synths

**Too many chances of
things not working.
Meanwhile my synths
gathered dust...**

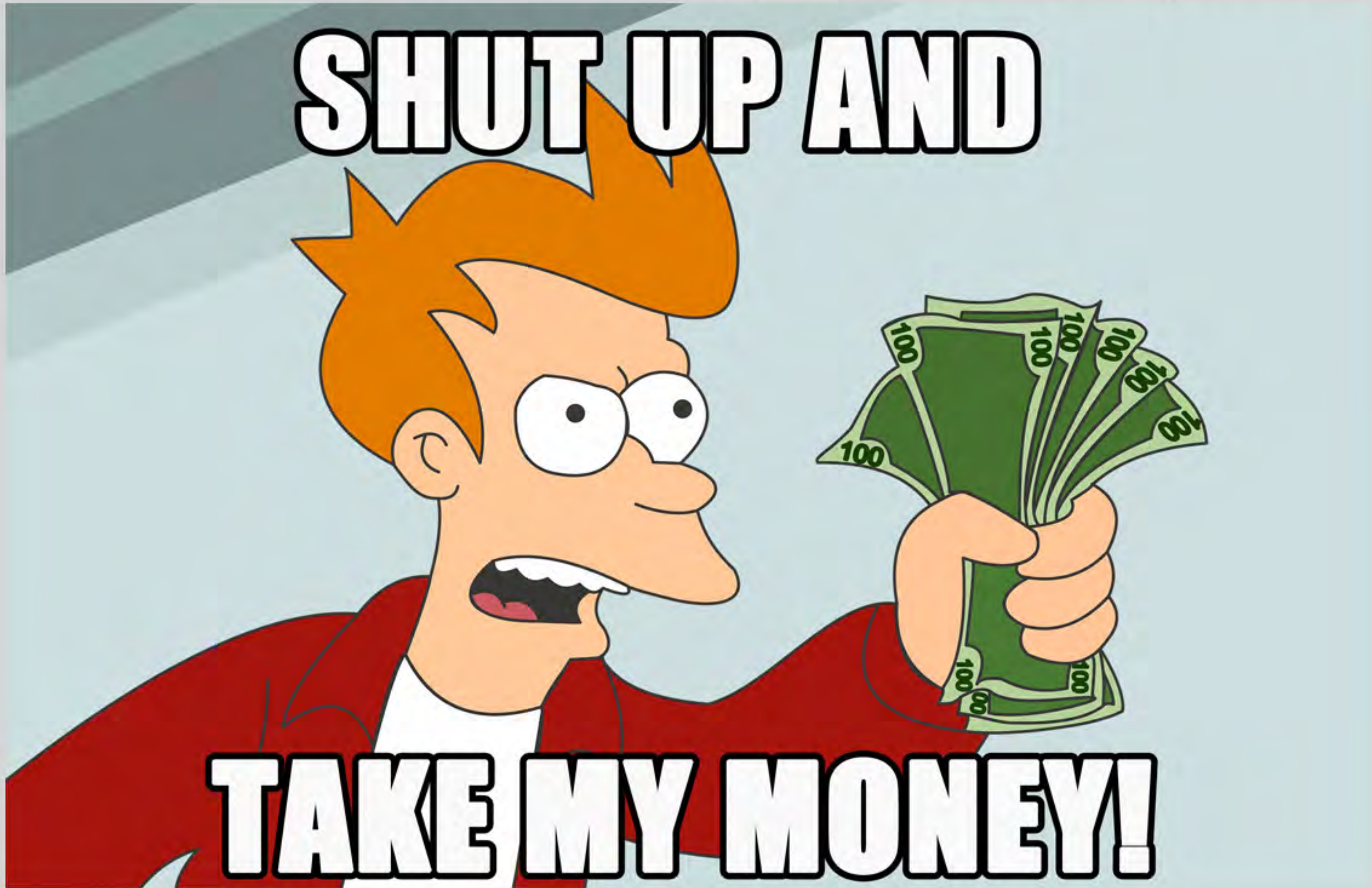
Live Coding Modular Synths

**(this is leading nicely into why
I started using a modular synth)**

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**Prices of vintage
Roland synths keep
going up and up and up...**

SHUT UP AND



TAKE MY MONEY!

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**...but then I discovered
cheap(ish) modular gear.**

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Live Coding Modular Synths



<http://haswellstudio.com/>

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MUFF WIGGLER

one billion tastes and tunes

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Information

Watch out! I just nuked 1-post user "gear101" after receiving five different complaints over the course of about 20mins that he's sending PMs to people offering to sell gear. Seems pretty fishy! I'm sure he'll be back under a different name but with the same old game. Be careful! Thanks to everyone who let me know about this guy.



[MW Radio](#)

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**Brighton Modular Meet
ACCA Creativity Zone
Pevensey III, Room C7
University of Sussex
<http://goo.gl/maps/p70pz>**

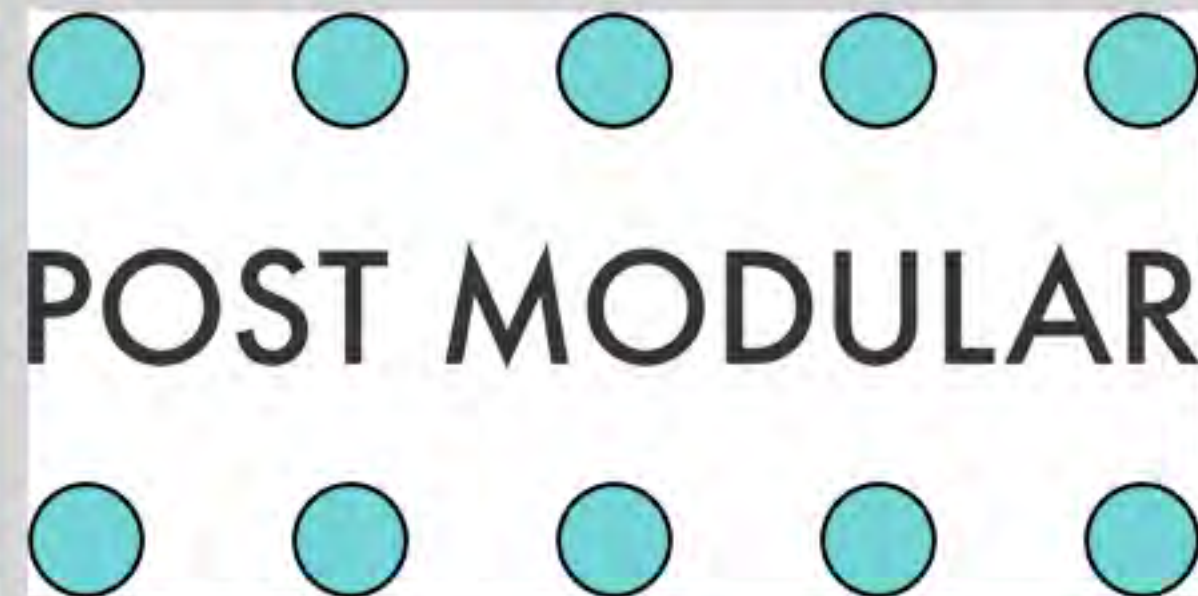
**10:00 - 5:00pm
Saturday June 28th 2014**

<http://tinyurl.com/brightonmodularmeet>

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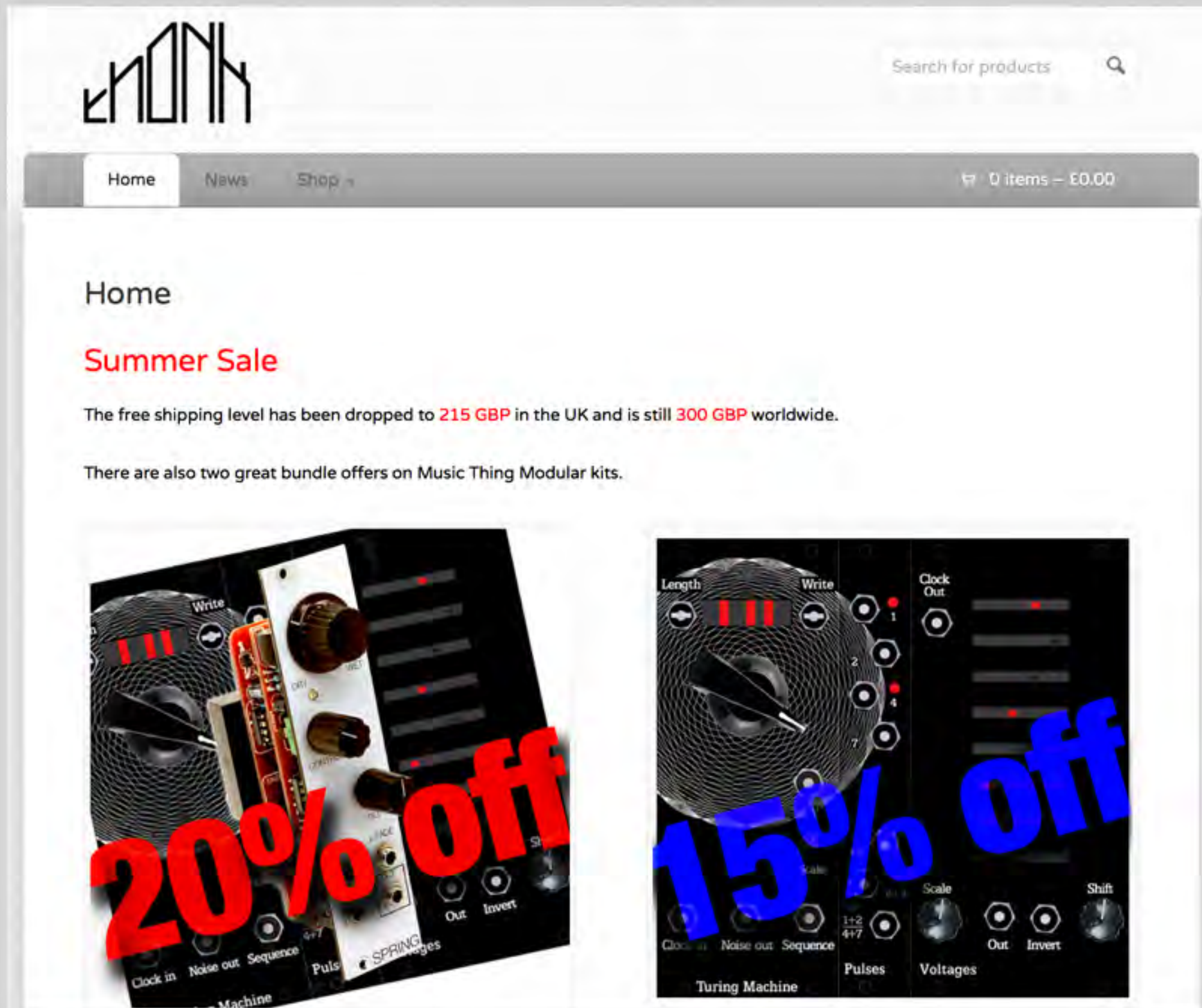
Accessibility.

Live Coding Modular Synths



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MUSIC & TECHNOLOGY
TELEPHONE +44 (0)147 2279650

Live Coding Modular Synths



The screenshot shows the Thonk website homepage. At the top is the Thonk logo and a search bar. Below the navigation bar, the 'Home' section features a 'Summer Sale' announcement. The text states that the free shipping level has been dropped to 215 GBP in the UK and is still 300 GBP worldwide. It also mentions two great bundle offers on Music Thing Modular kits. Below the text are two images: a physical modular synth unit on the left and a software interface on the right. Both images have large discount overlays: '20% off' in red on the physical unit and '15% off' in blue on the software interface.

Home

Summer Sale

The free shipping level has been dropped to **215 GBP** in the UK and is still **300 GBP** worldwide.

There are also two great bundle offers on Music Thing Modular kits.

20% off

15% off

(<http://www.thonk.co.uk/>)

SHUT UP AND

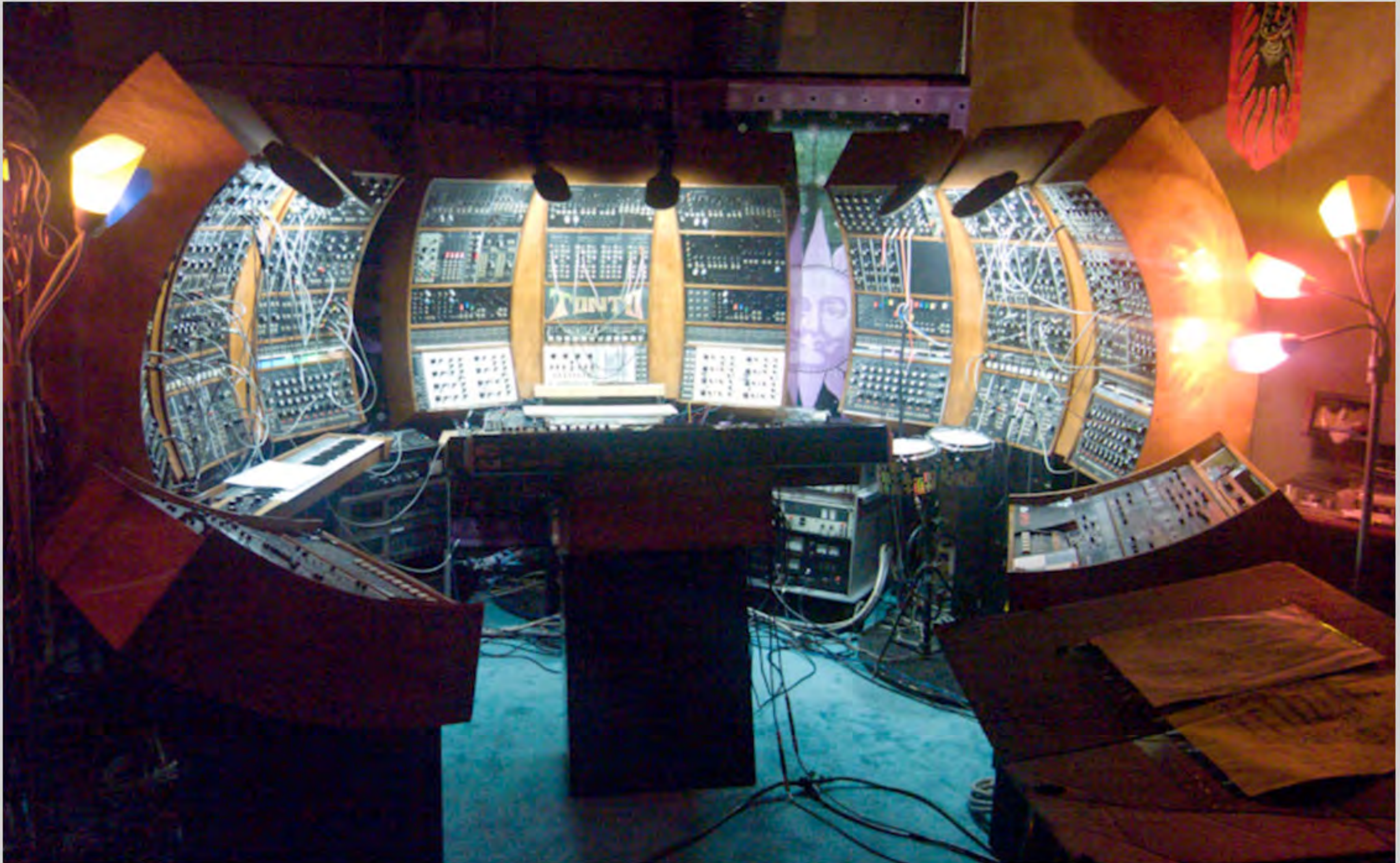


TAKE MY MONEY!

Live Coding Modular Synths

Artefact fetishisation

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(TONTU image: <http://xbs111.wordpress.com>)

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(image: <http://www.cnet.com/uk/news/the-sounds-of-star-trek-this-man-makes-them-happen/>)

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**Because computers
(infinity machines)
frustrate me.**

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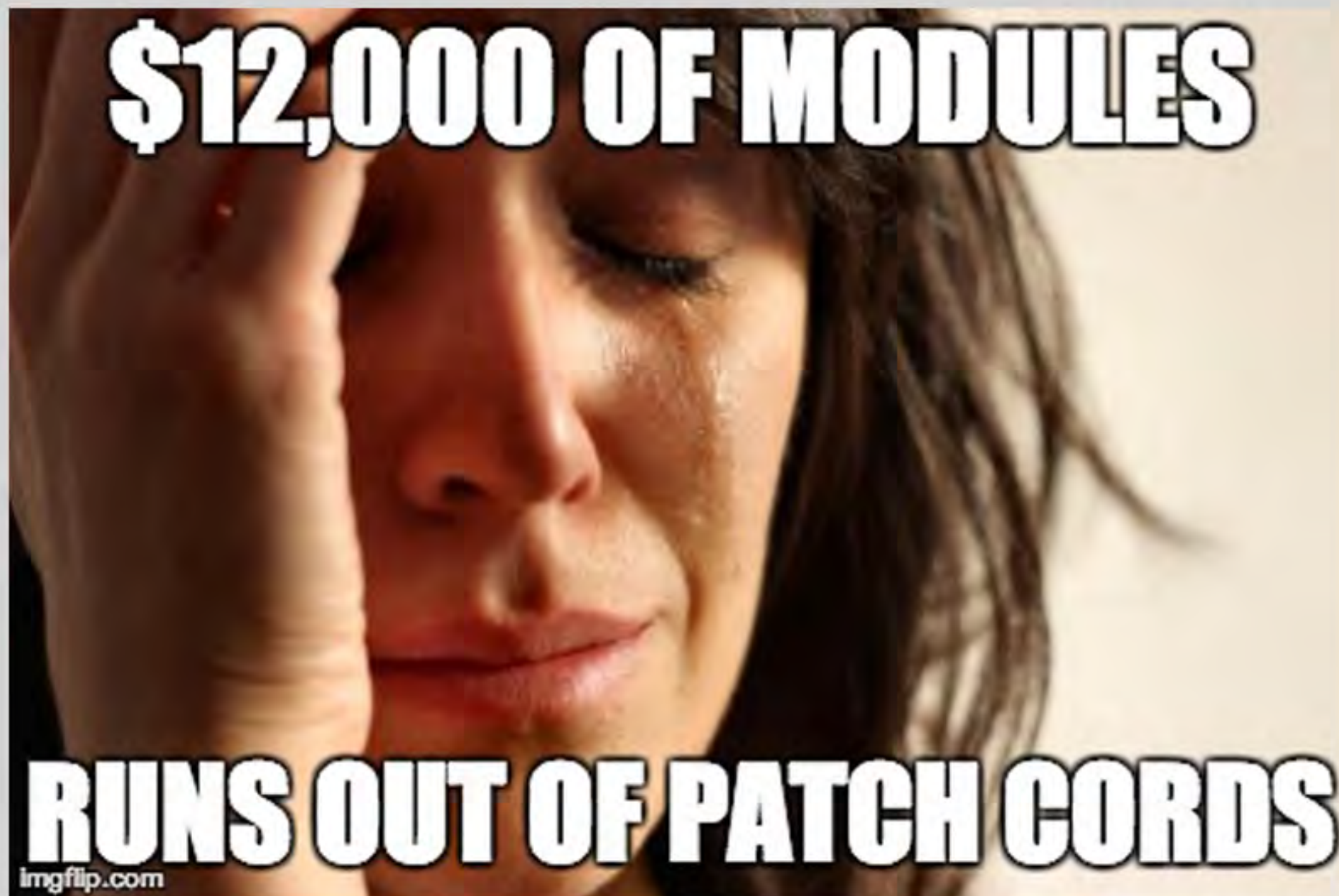
(Good) limitations.

Live Coding Modular Synths

#1 Money...

**for modules, cases, cables,
and DECENT SPEAKERS!!!**

Live Coding Modular Synths

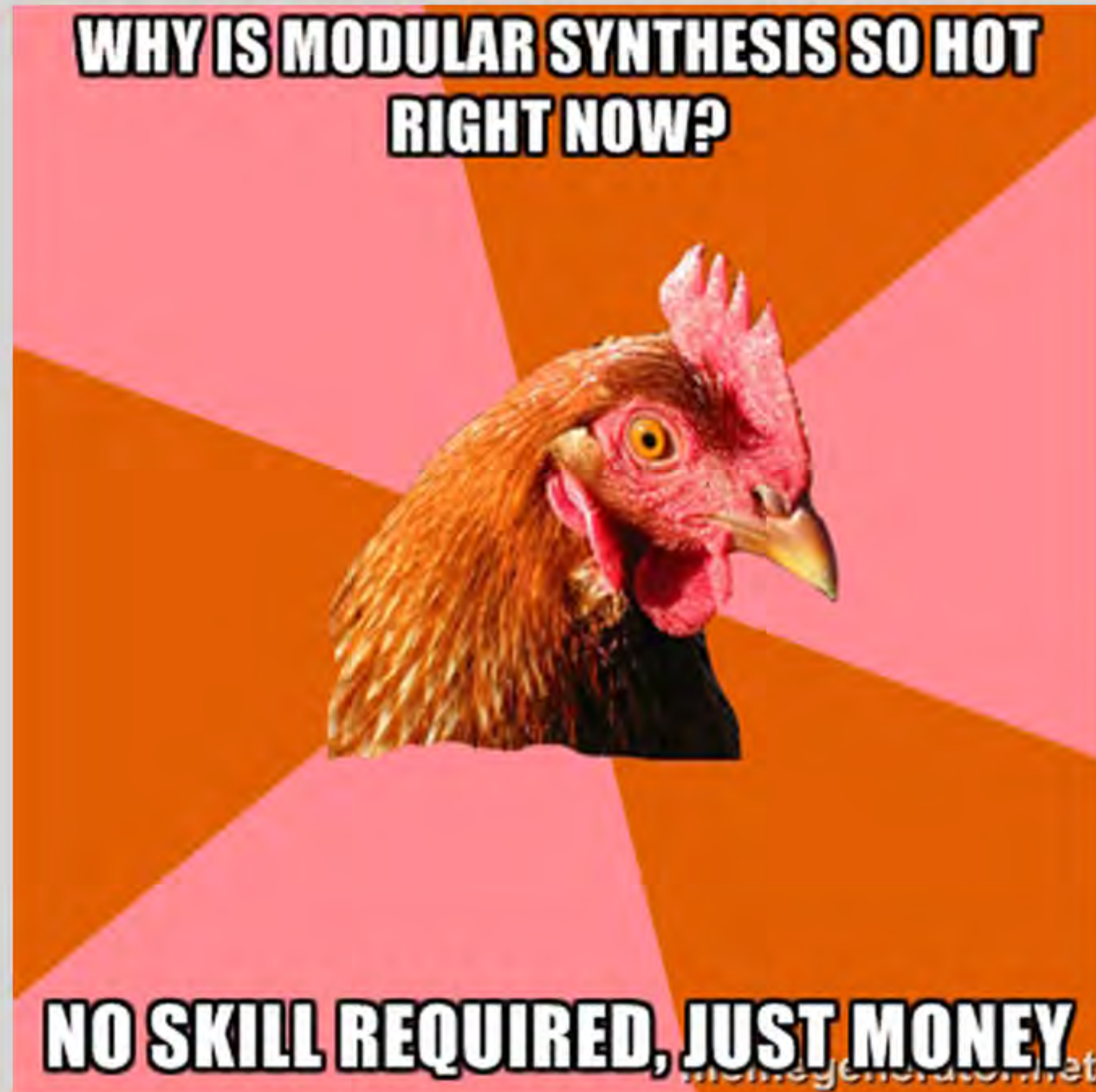


Live Coding Modular Synths

#2 Space...

**because you want 23 VCOs,
you need a bigger case...
(#2 = #1)**

Live Coding Modular Synths



Live Coding Modular Synths

#3 Availability...

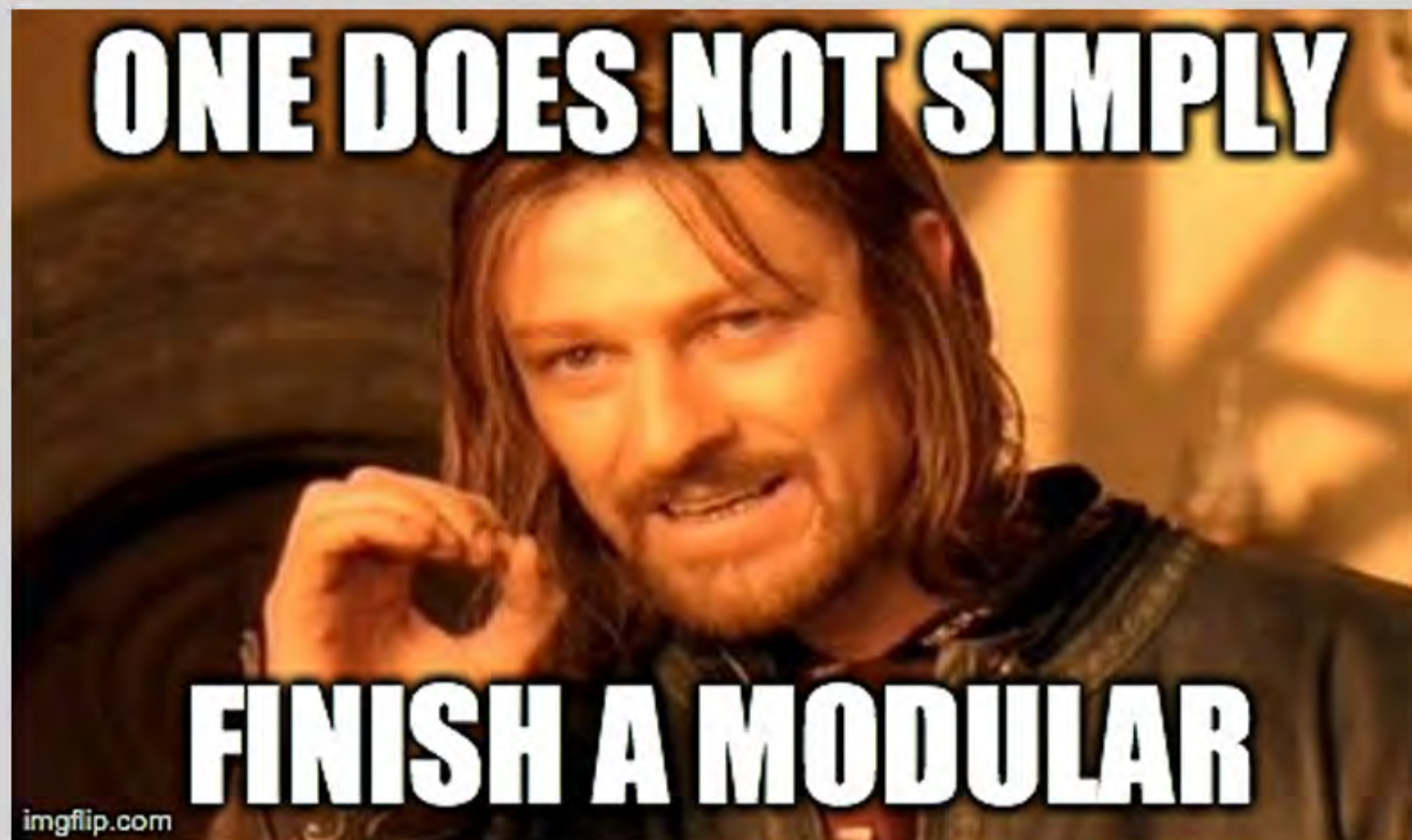
forum hype,

G.A.S. (gear acquisition syndrome)

modules first released abroad

(#3 = #1 buy from USA!!!)

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Live Coding Modular Synths

#4 Patch cables...

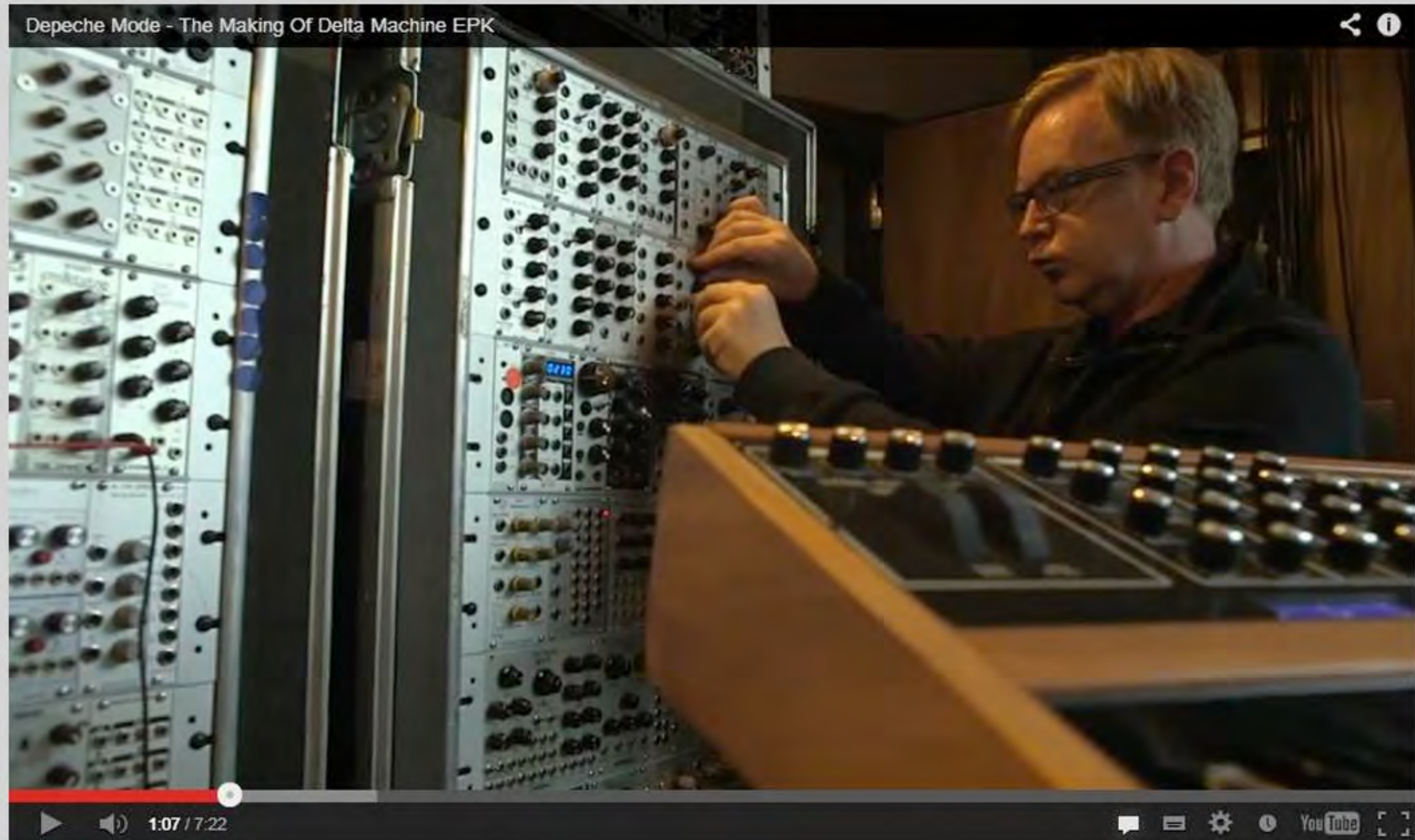
length,

quantity,

visibility

(#4 = #1 see Depeche Mode)

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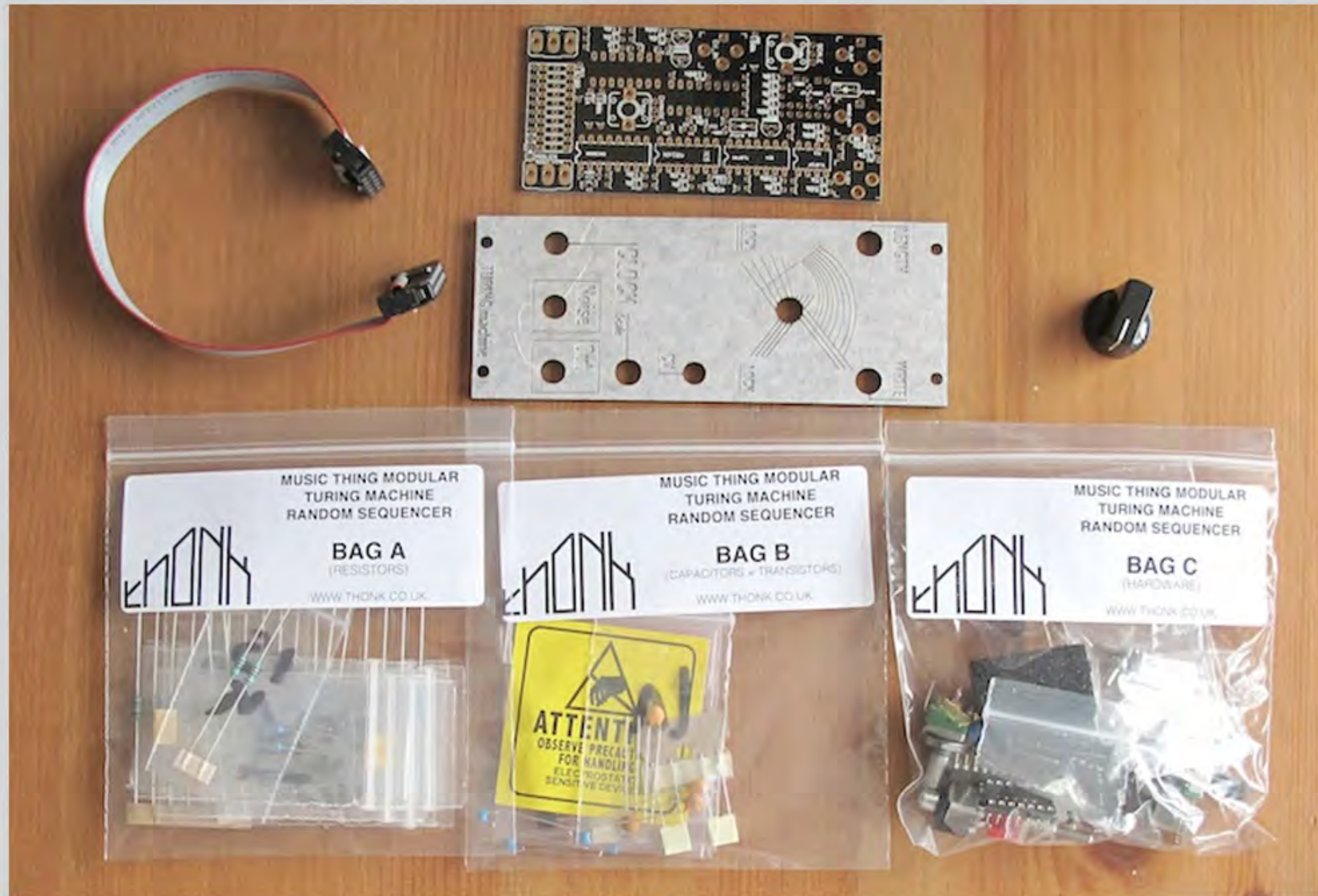
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So make do with what you have.

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**Ownership through
DIY and construction.**

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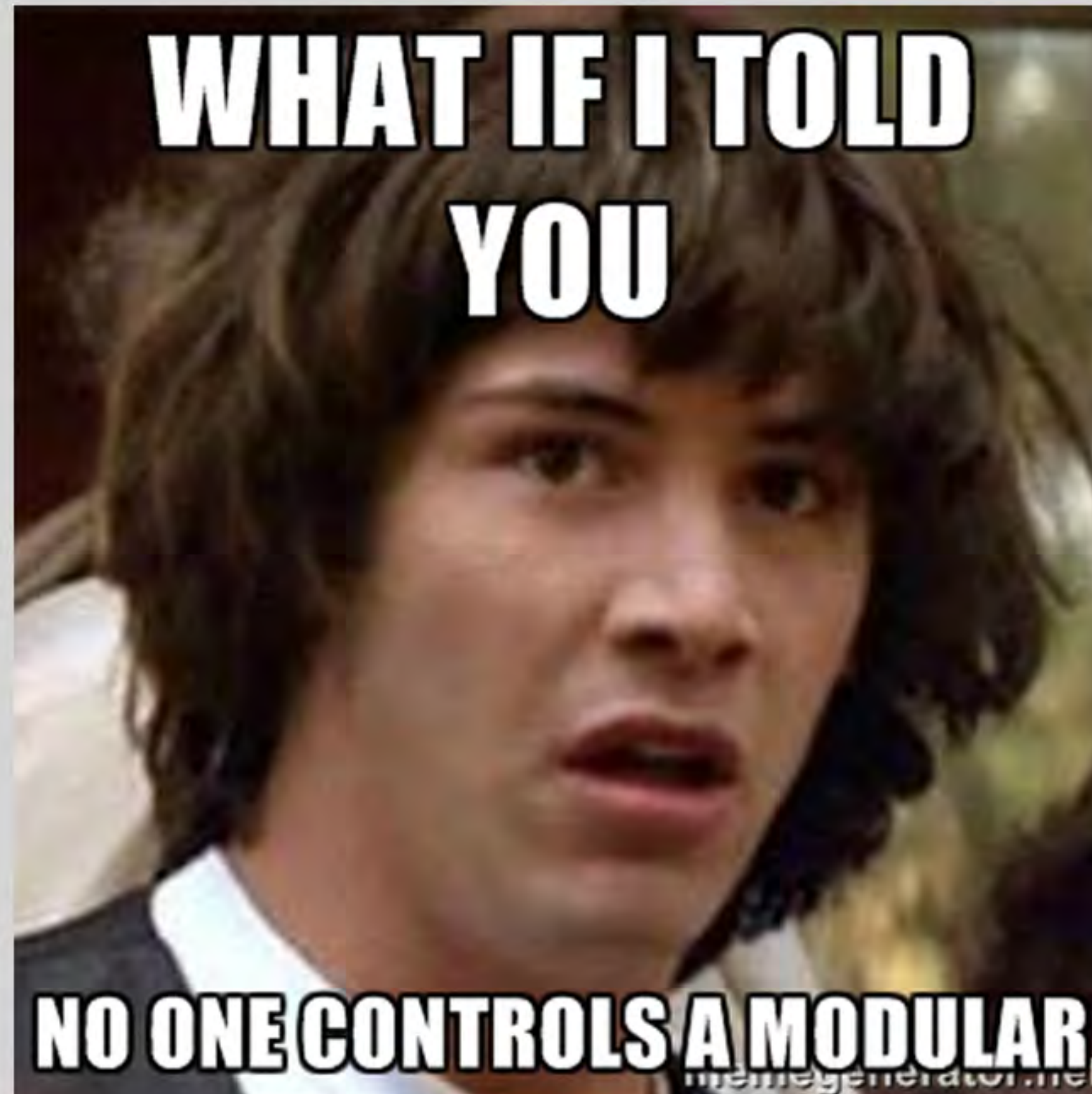


(image: <http://www.thonk.co.uk/shop/music-thing-modular-turing-machine-random-sequencer-kit/>)

Live Coding Modular Synths

**Creation of a learned system.
You've chosen what goes where,
giving you the illusion of control.**

Live Coding Modular Synths



Live Coding Modular Synths

Difference...

between computer and hardware:

#1: Fetishised artefact (TONTTO).

#2: Mythic status (MATHS).

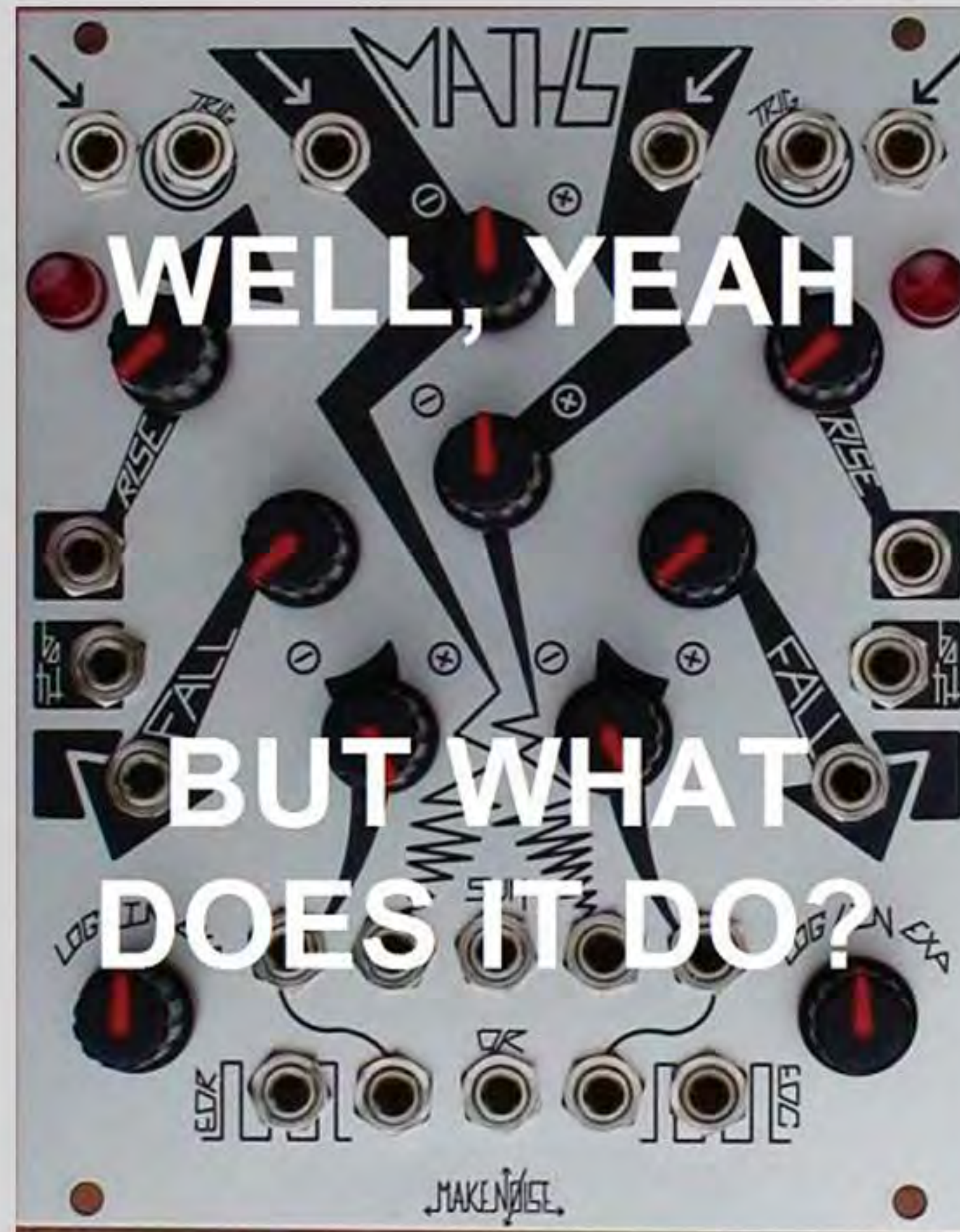
#3: ~~Emulation.~~

(Andrew, don't forget the next 3 slides)

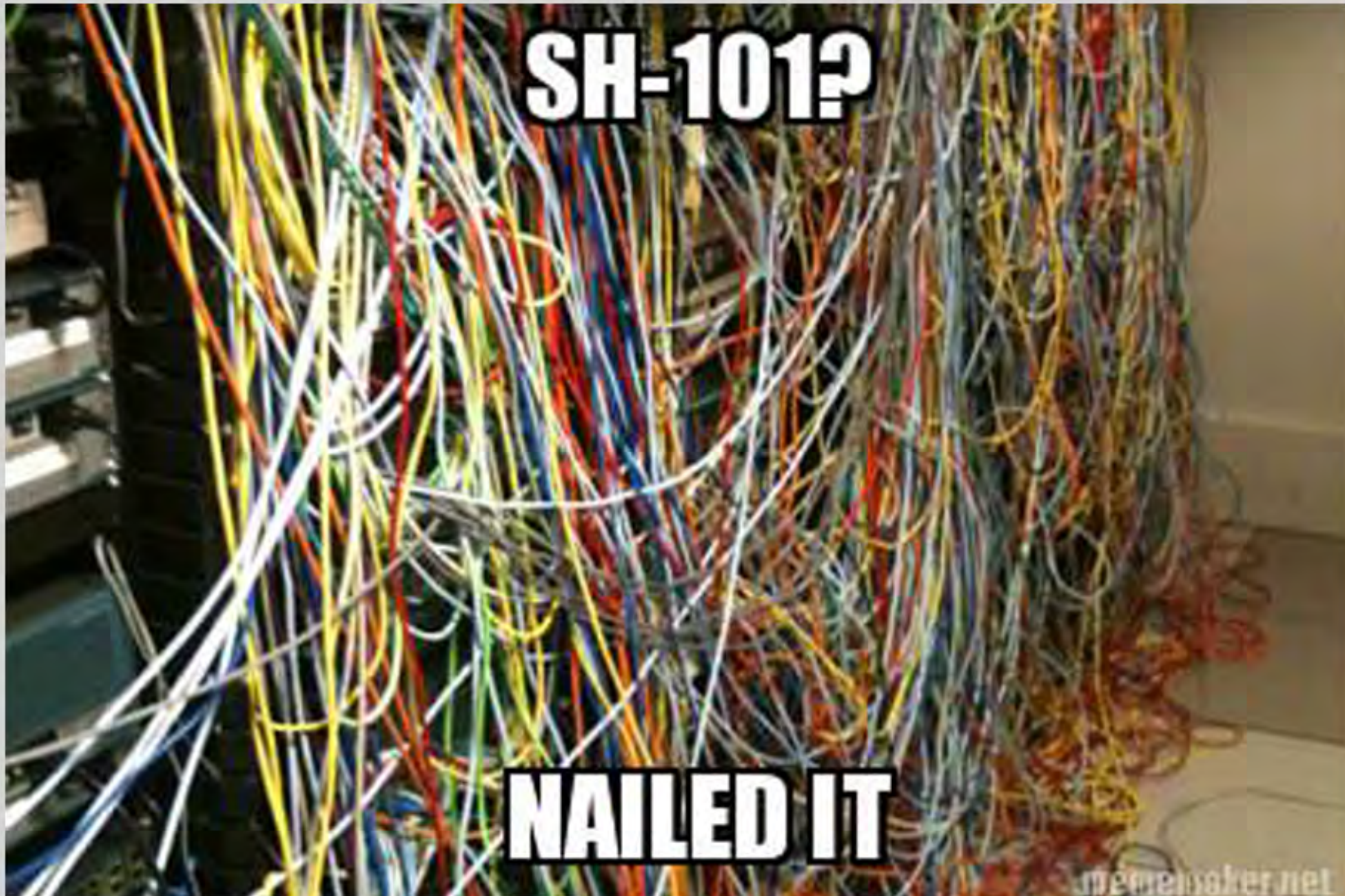
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Live Coding Modular Synths



Live Coding Modular Synths

**Live Coding & the Body,
and my modular.**

Live Coding Modular Synths

Live-ness...

#1:

Real-time control & easy access

(unless a module is buried under cables).

#2:

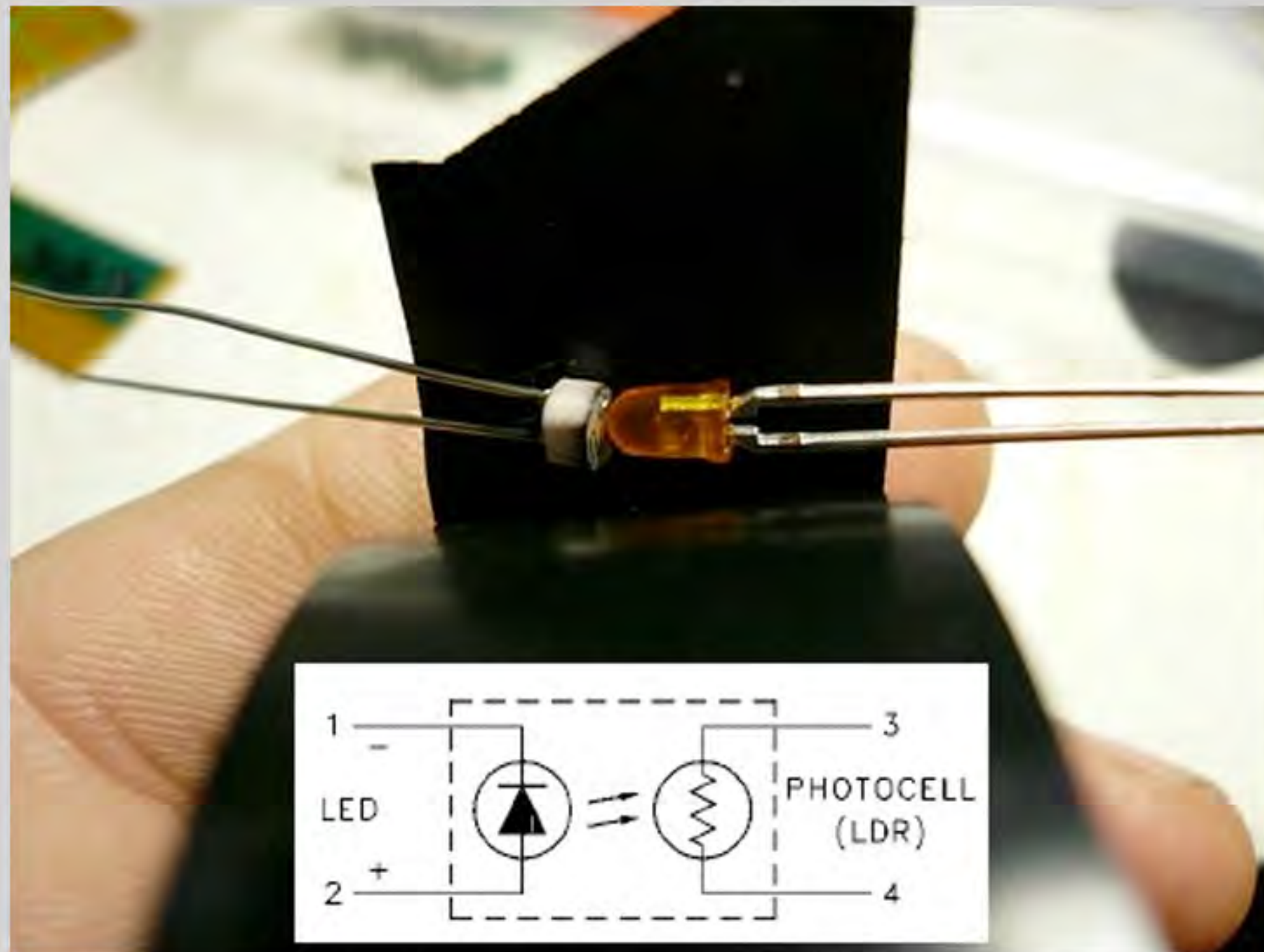
The system 'feels' alive...

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Live Coding Modular Synths

Vactrols - voltage controlled resistors.



(image: <http://www.electronics-lab.com/blog/?tag=vactrol>)

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Code-ness...

#1:

99% of parameters are accessible.

***Traditional & experimental sequencers,**

***CV can be combined to influence X,**

***Programmable triggering.**

Live Coding Modular Synths

Body-ness...

#1:

Generally doesn't require direct use of a computer or screen.

#2:

Accidents happen and are VERY hard to replicate.

#3:

No presets!!!

Live Coding Modular Synths



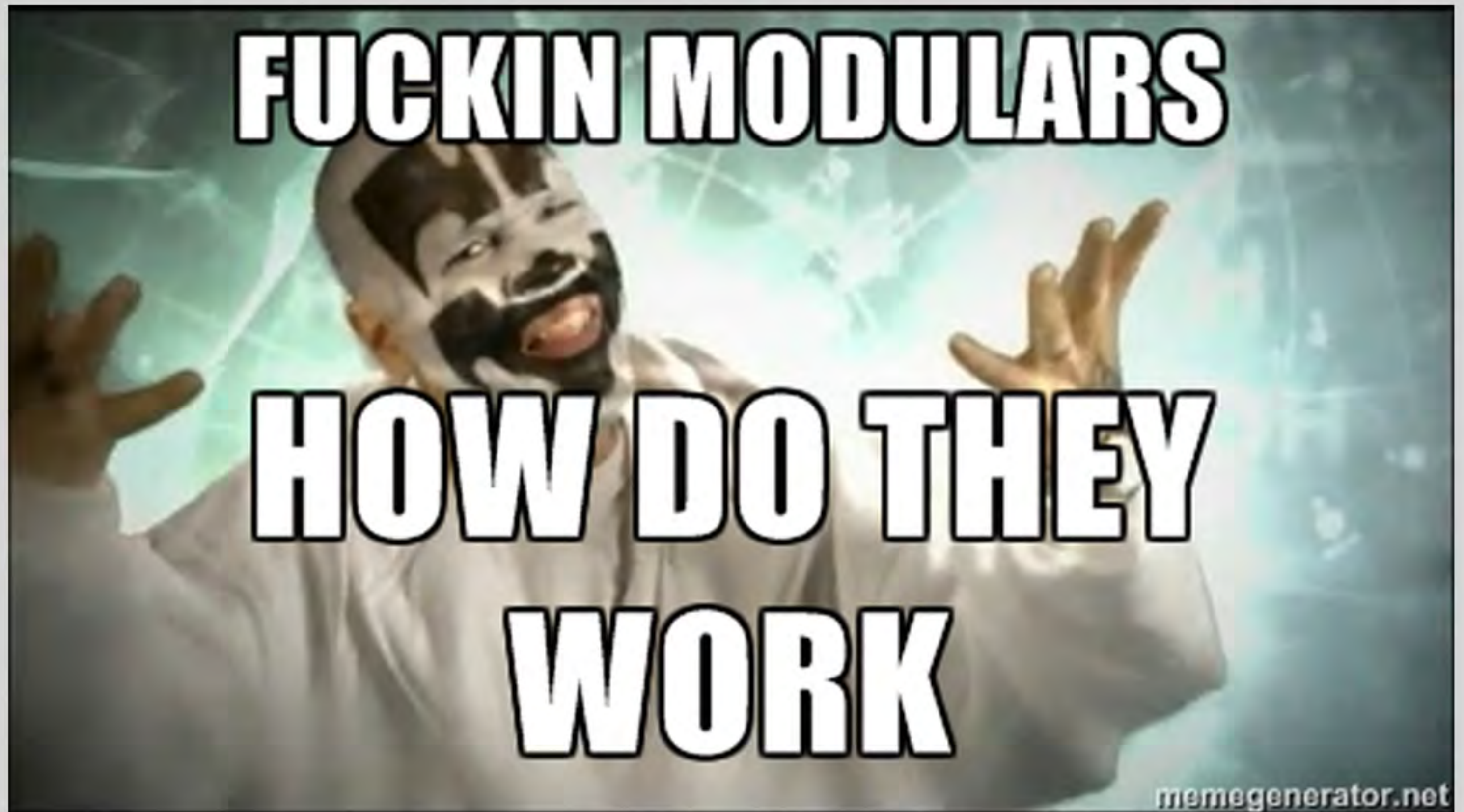
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**Time for some of
my favourite modules!!!**

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OR...

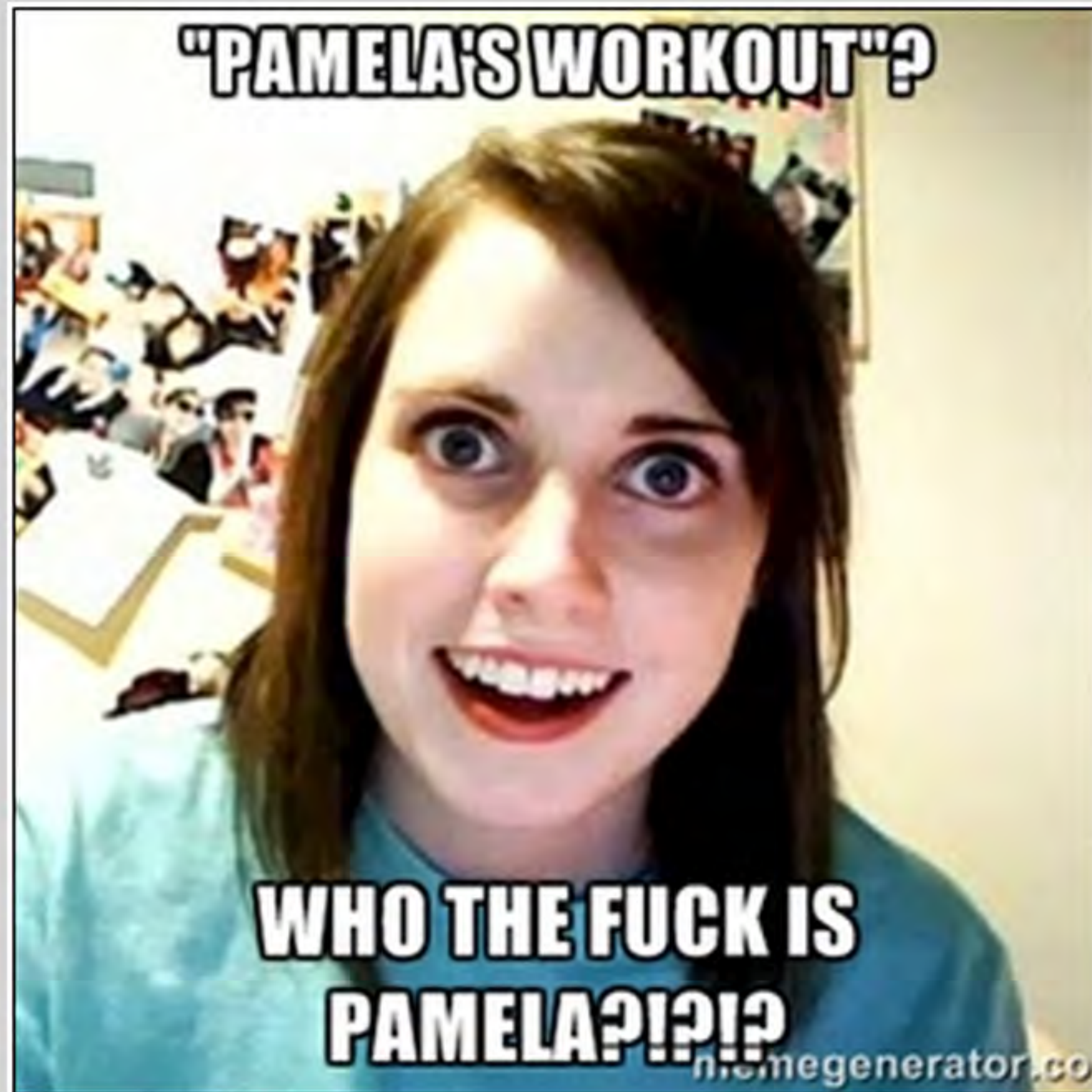
I spent two days making a demo patch for this talk, and here it is.



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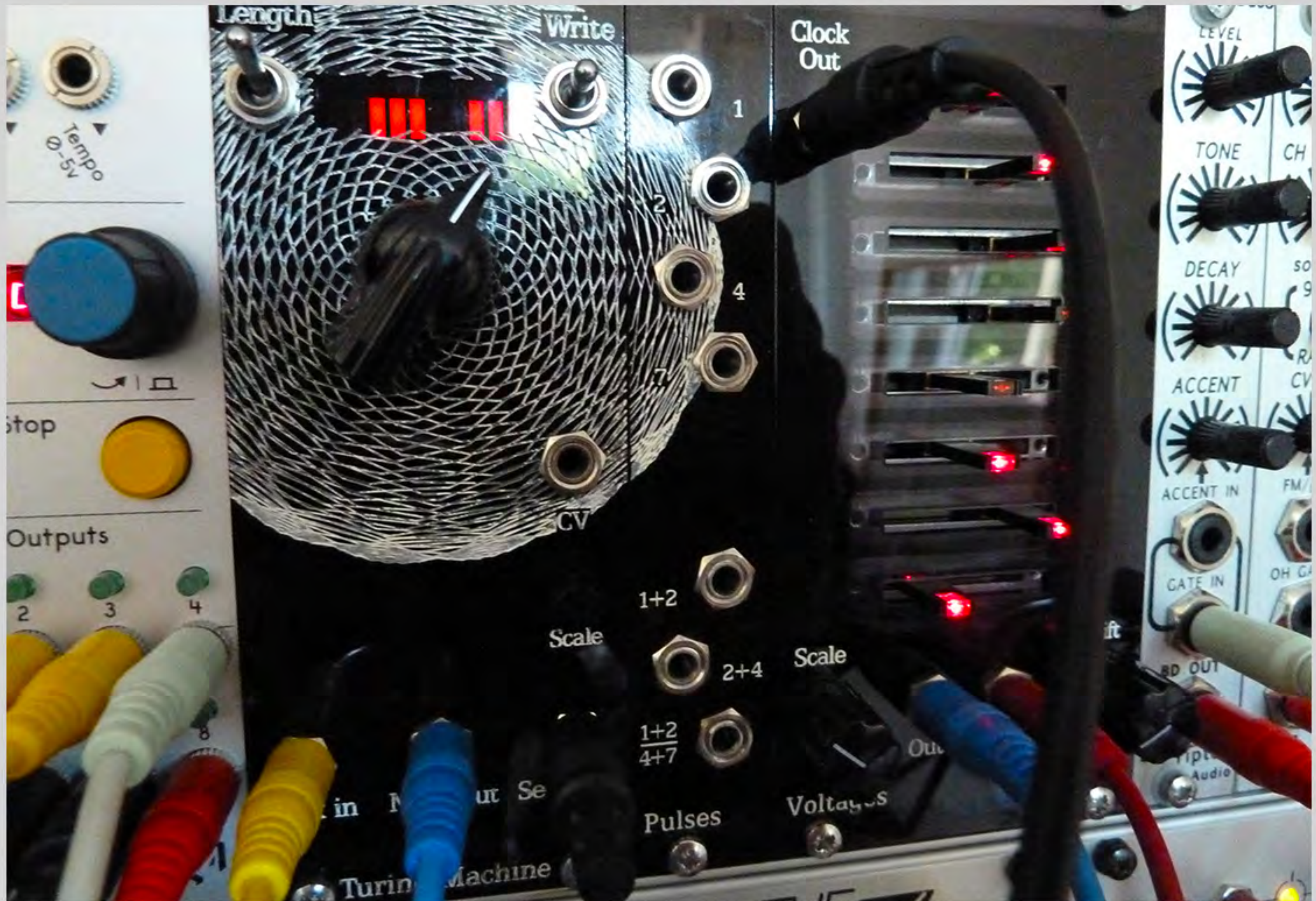
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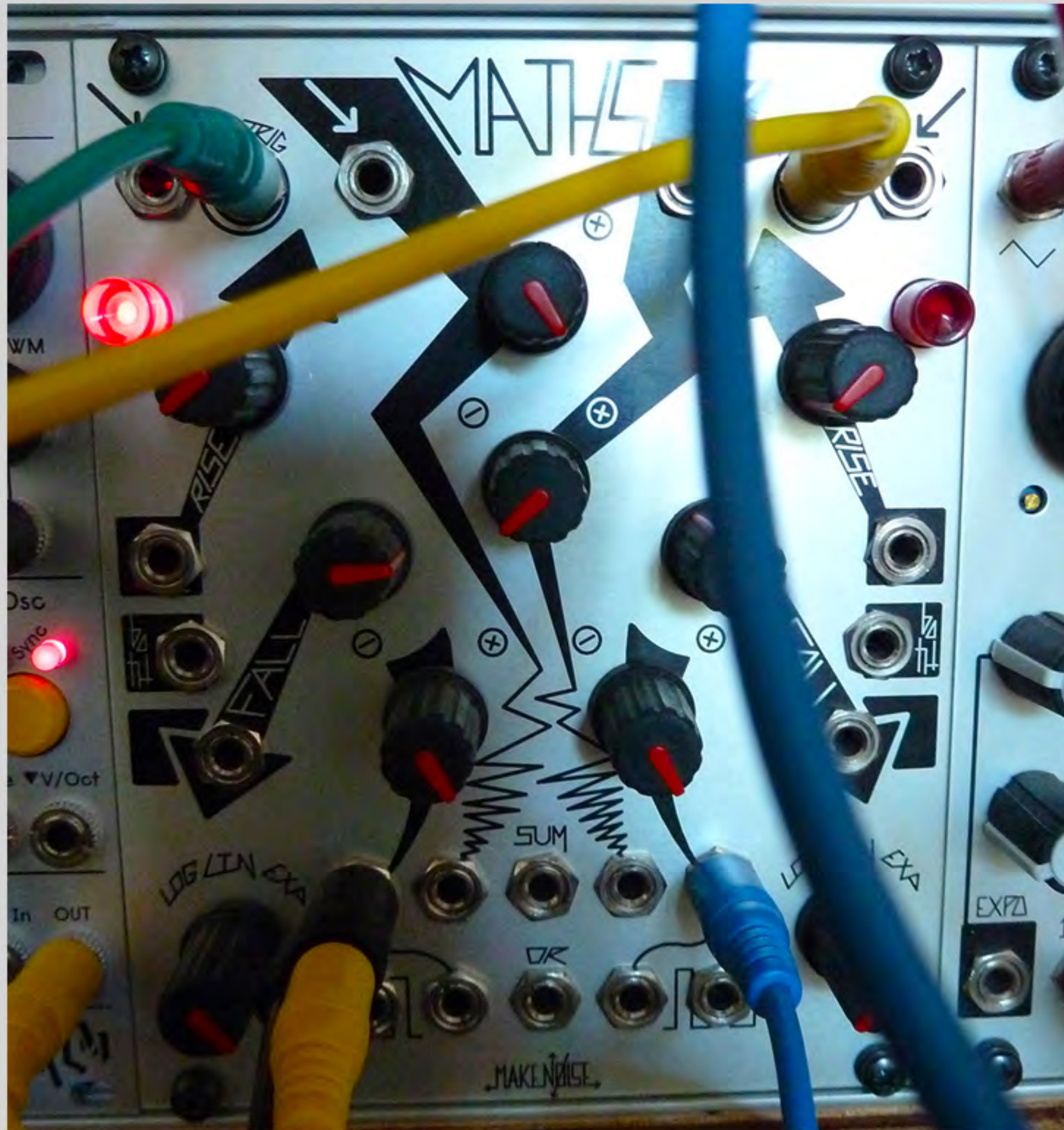
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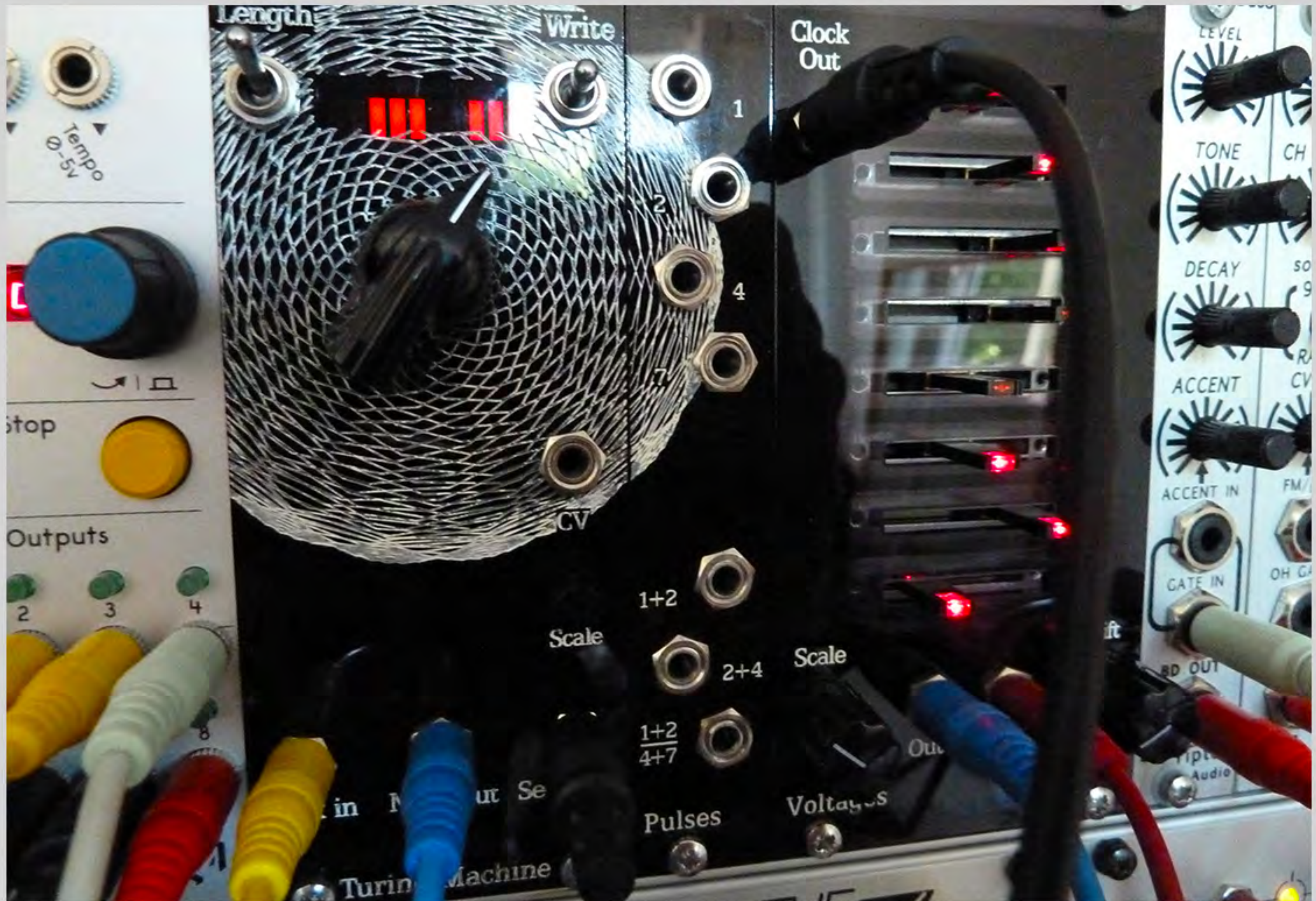
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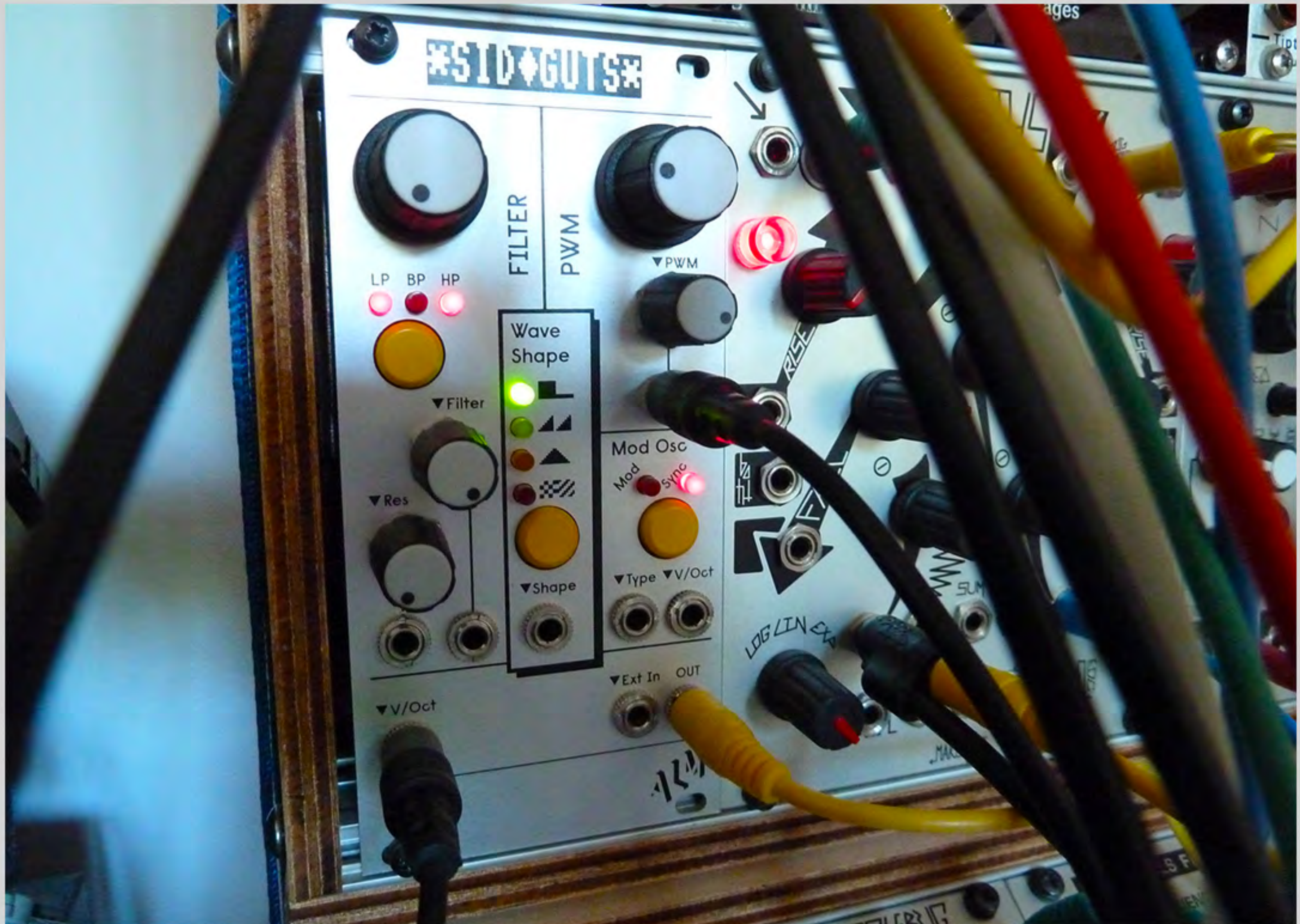
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Live Coding Modular Synths



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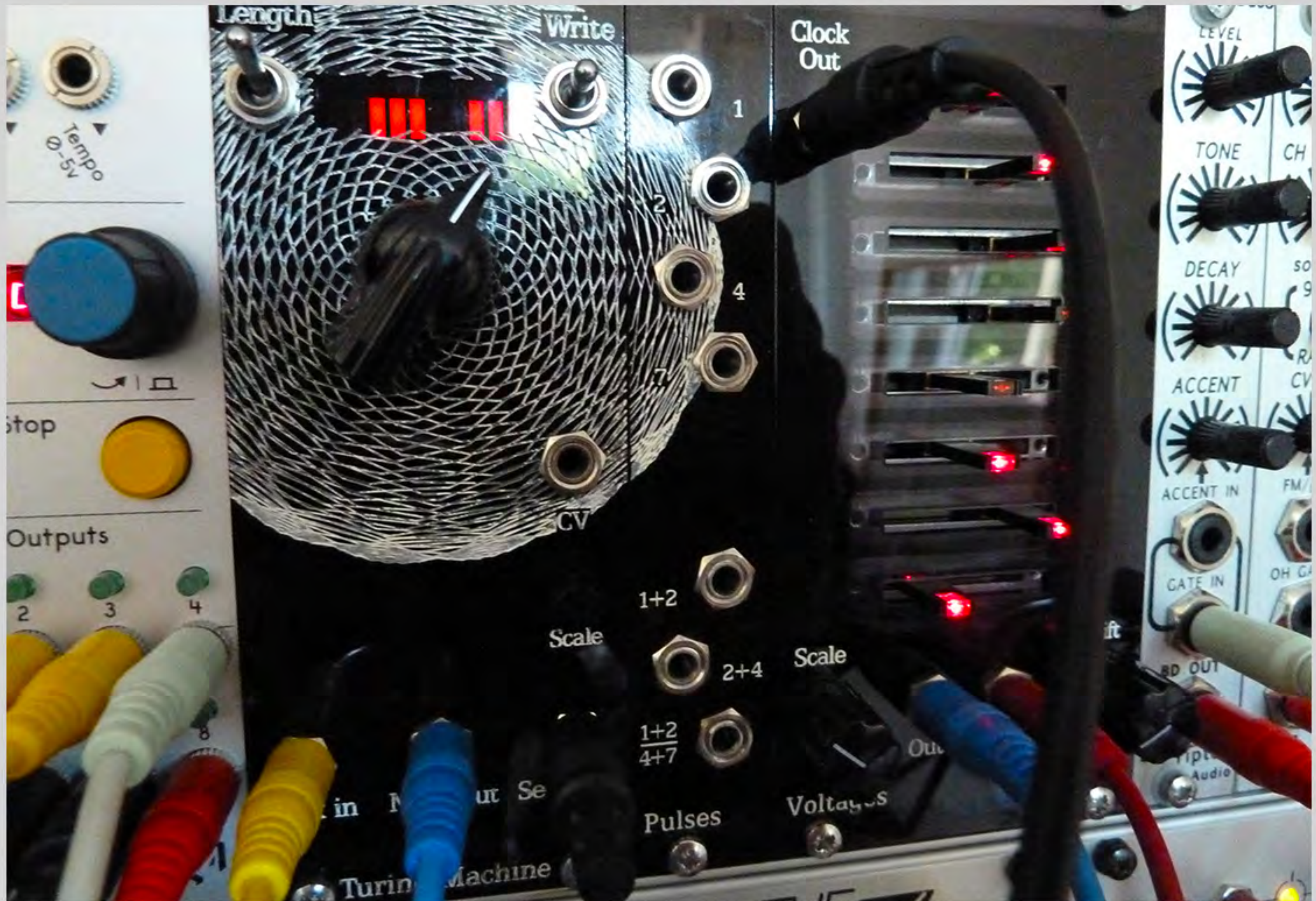


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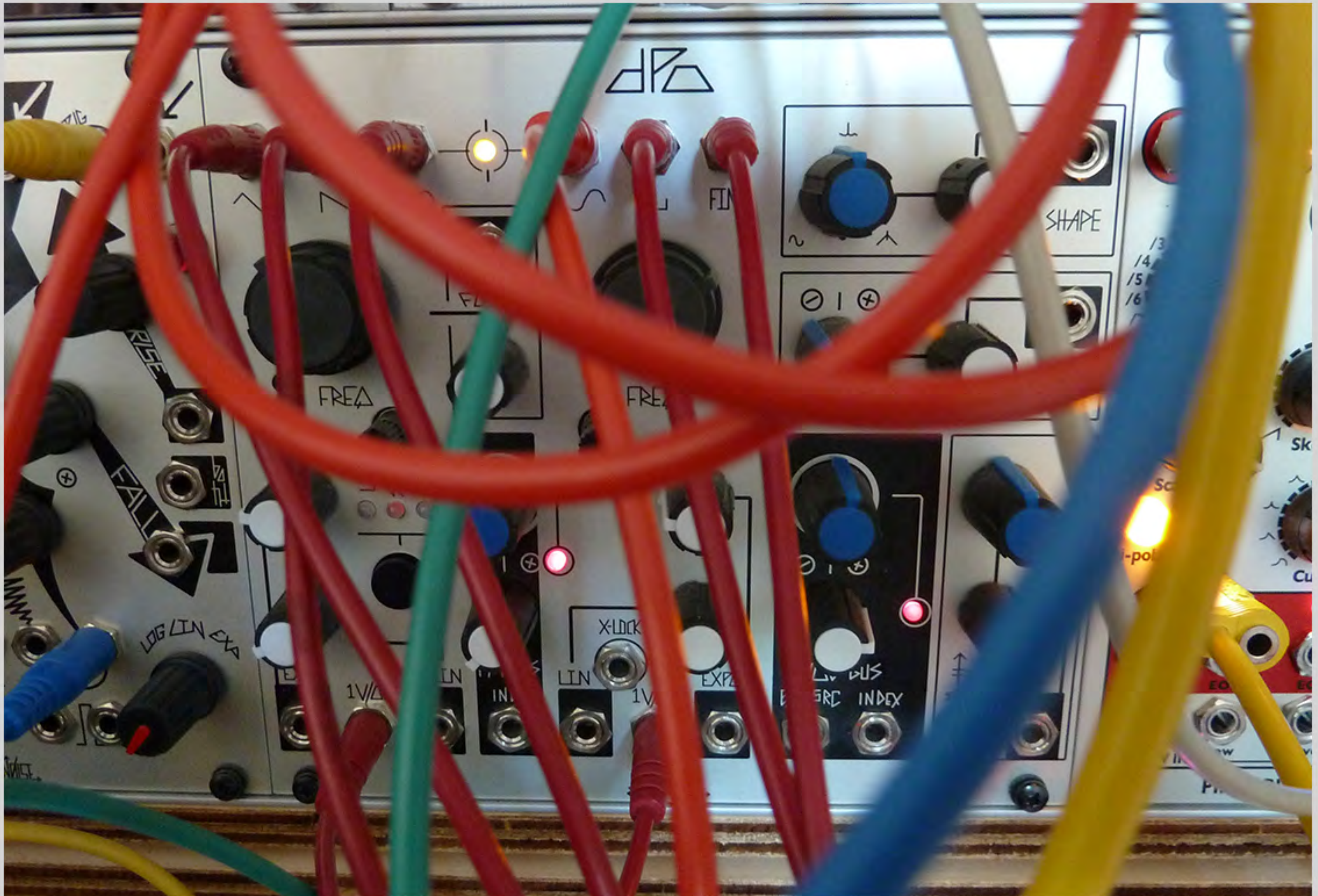
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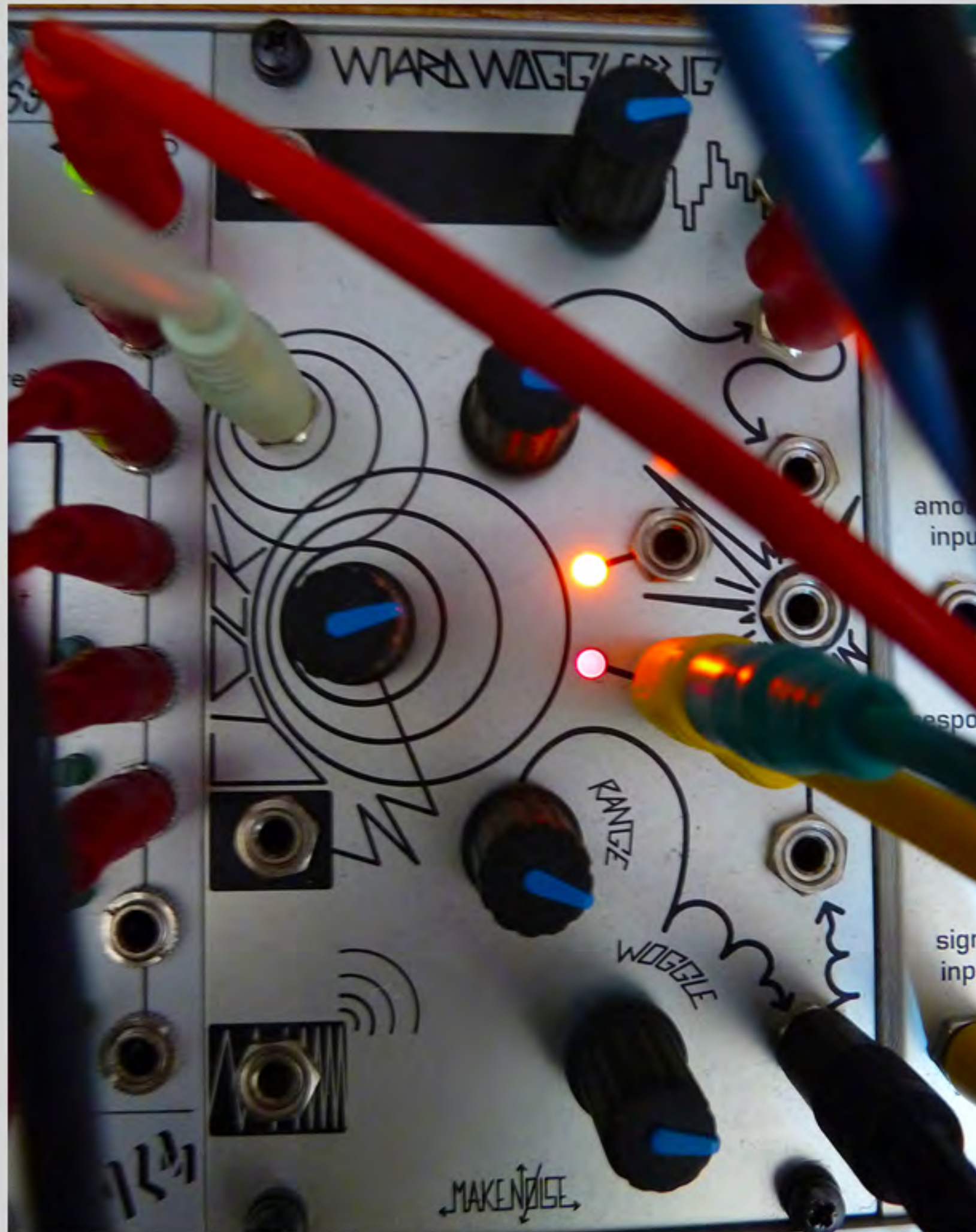
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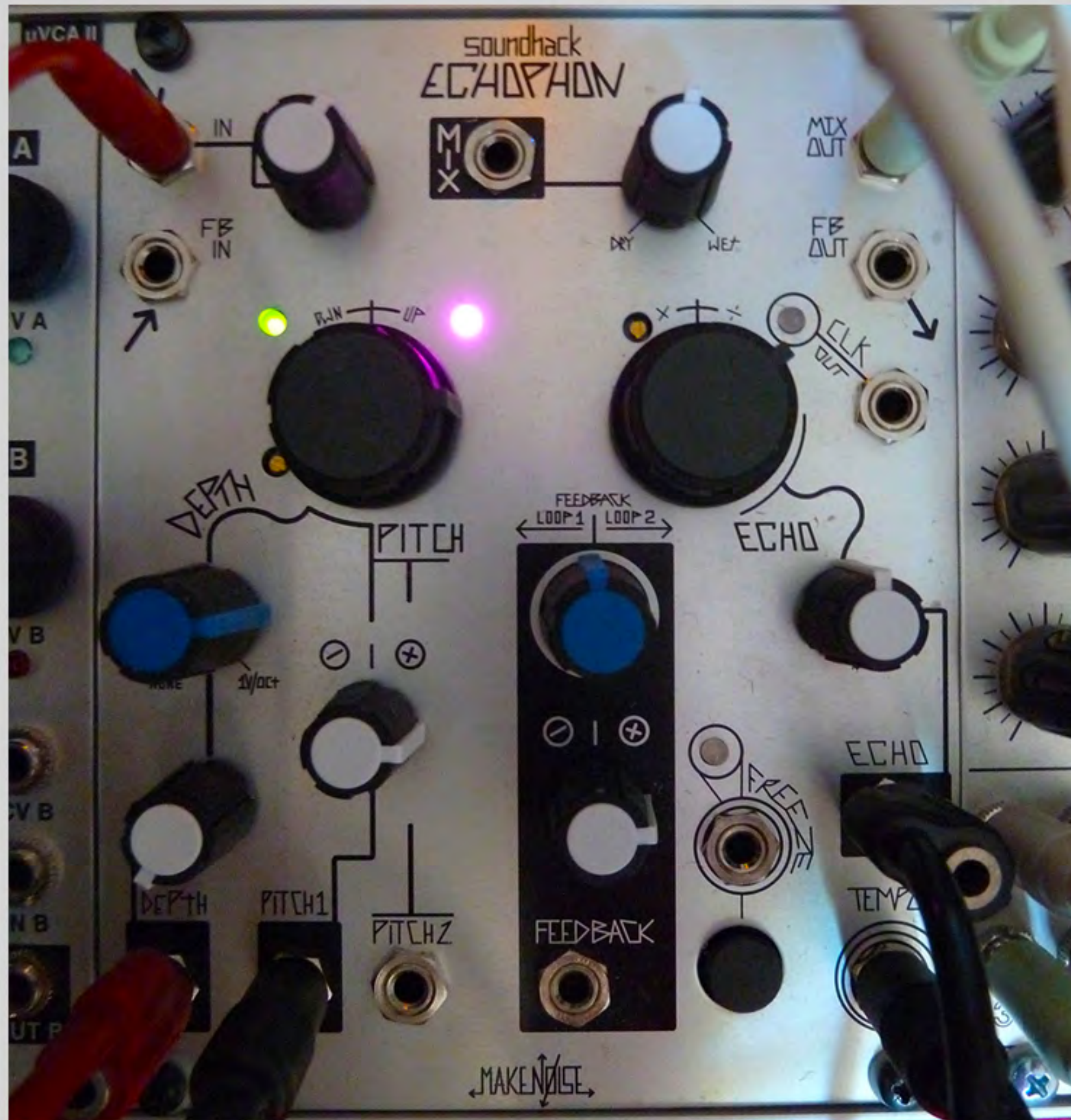
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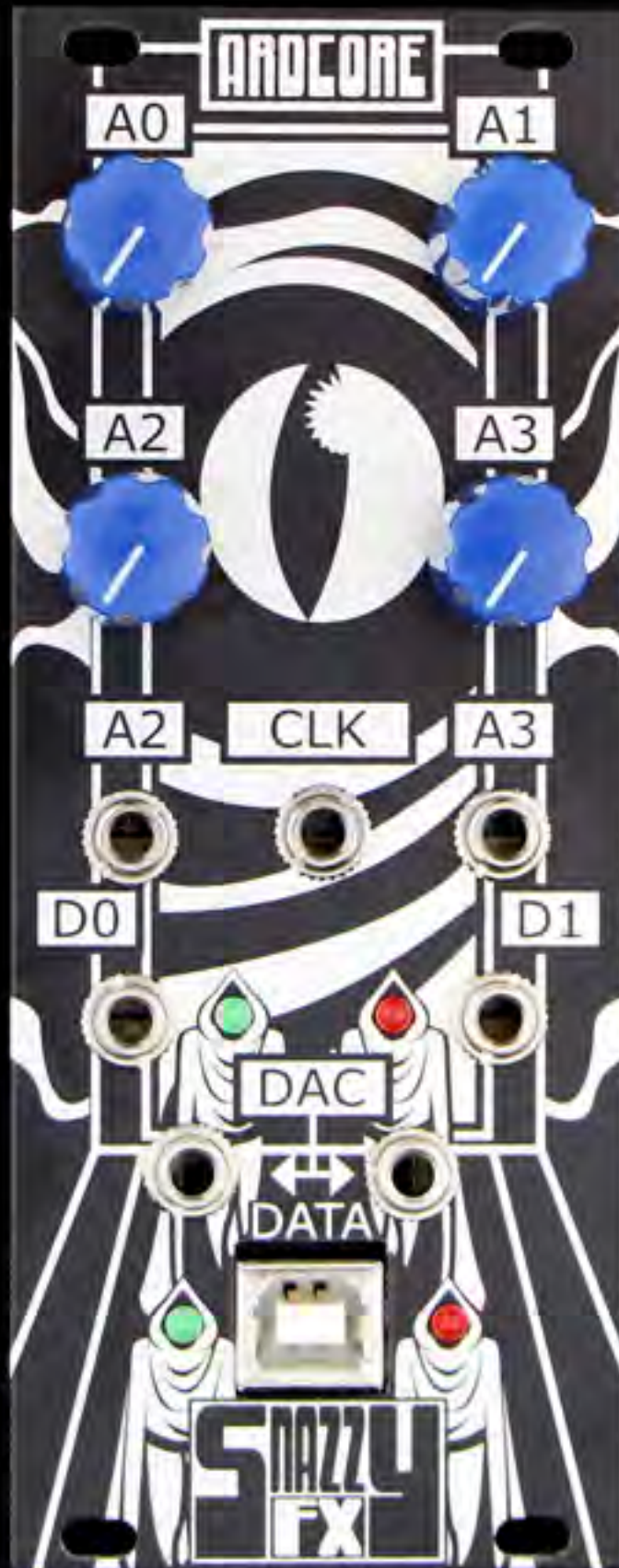
Live Coding Modular Synths

not the end.

Analog modular...?

**nope, Pamela's Workout, PEG,
Echophon, Rene, SIDGUTS,
and plenty more have
pic microcontroller chips in them.**

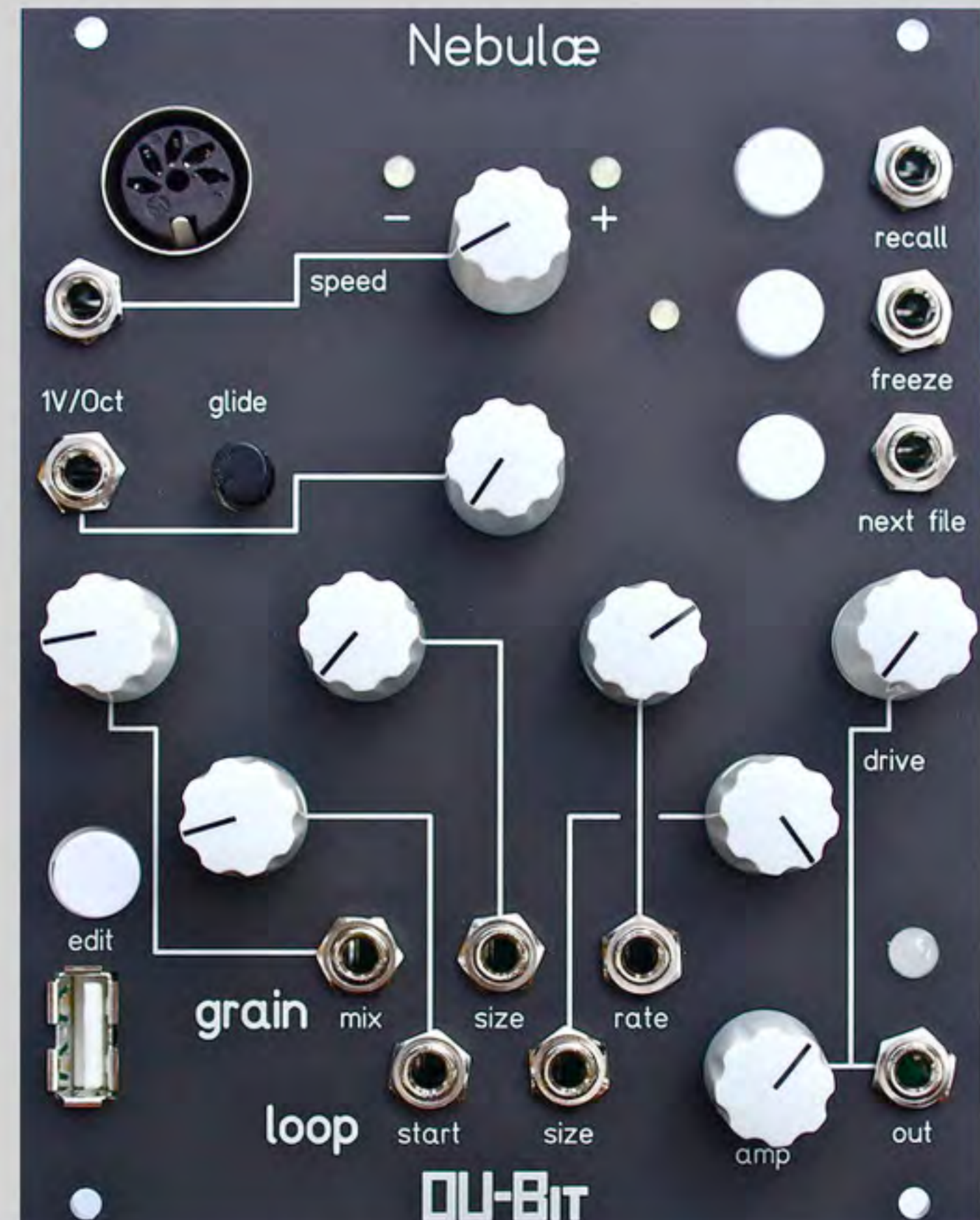
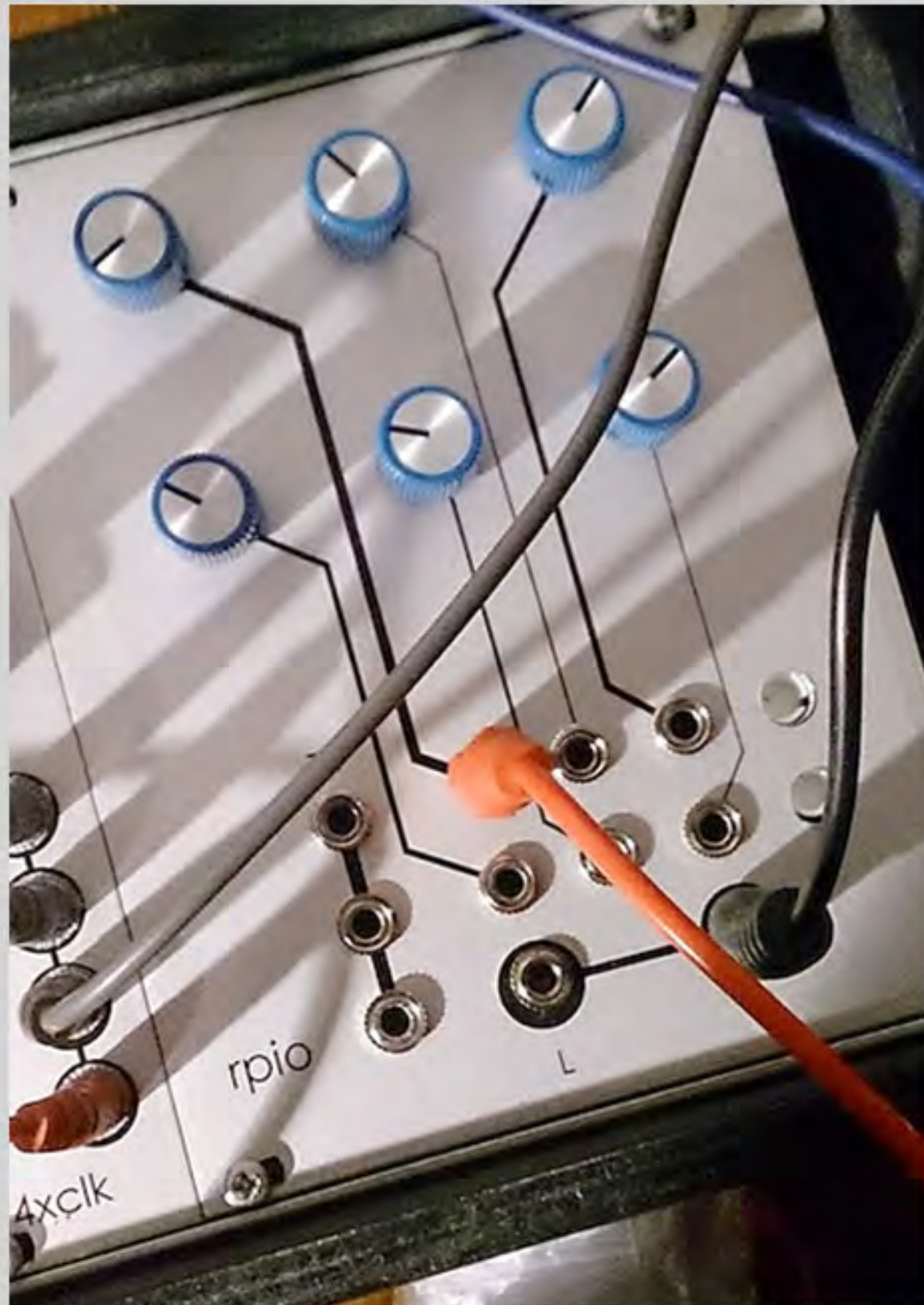
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**SnazzyFX Ardcore,
Arduino based module
developed by
Darwen Grosse from
Cycling74...**

(firmata)

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Raspberry Pi running PiCollider & Csound.

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Thanks.

**(sorry about the *funny* meme pics
stolen from the muffwiggler forum)**