

telnix

0.05\$ / main
AEL 19

OCT 26'



THIS HALLOWEEN

THOUGHT
YOUR

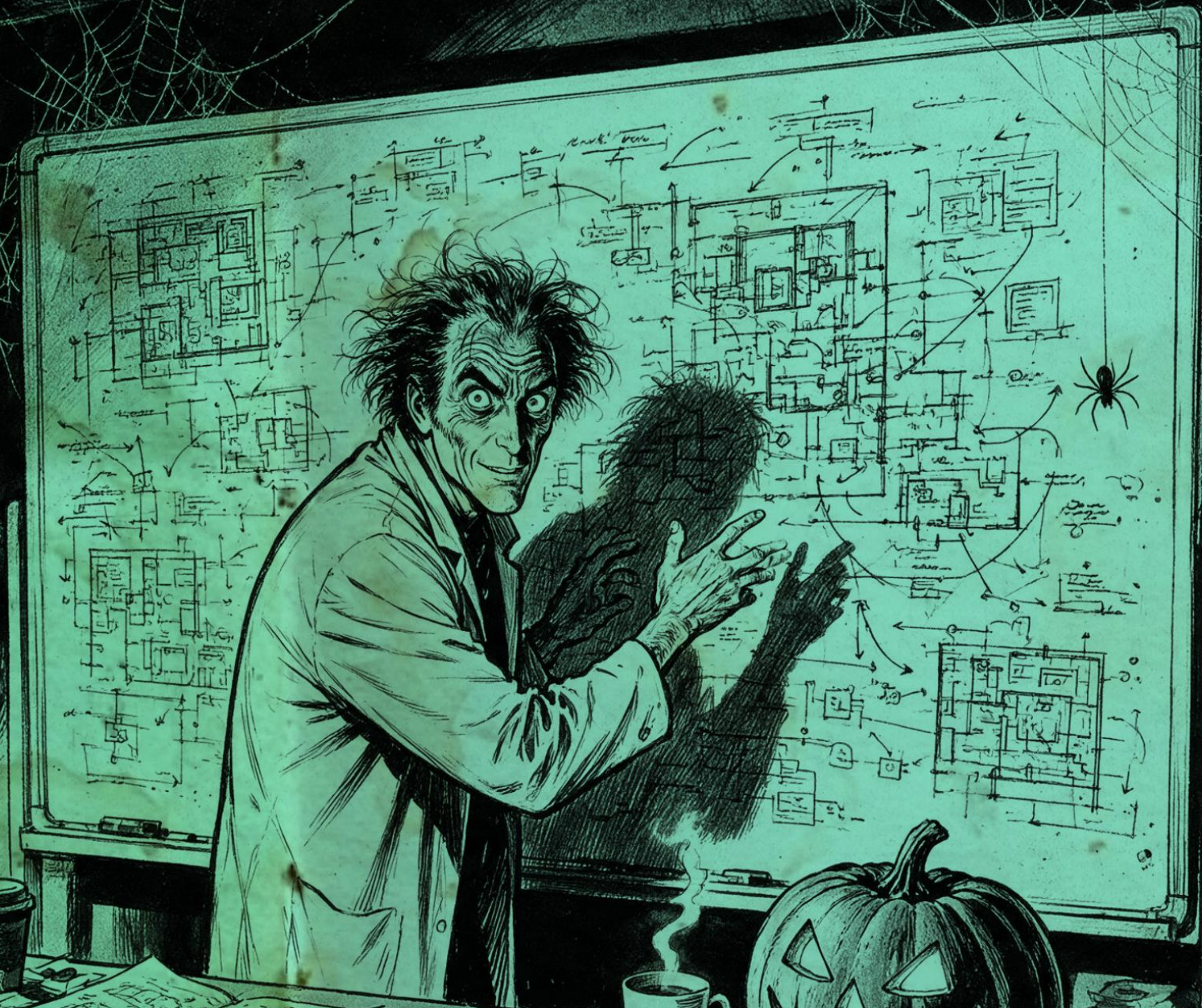
FRANKENSTACK

COULD WORK?



**ADD A VOICE AGENT.
HOW HARD CAN IT BE?**

Every monster starts with good intentions. Ours started with a product brief: "Add a voice agent. How hard can it be?"

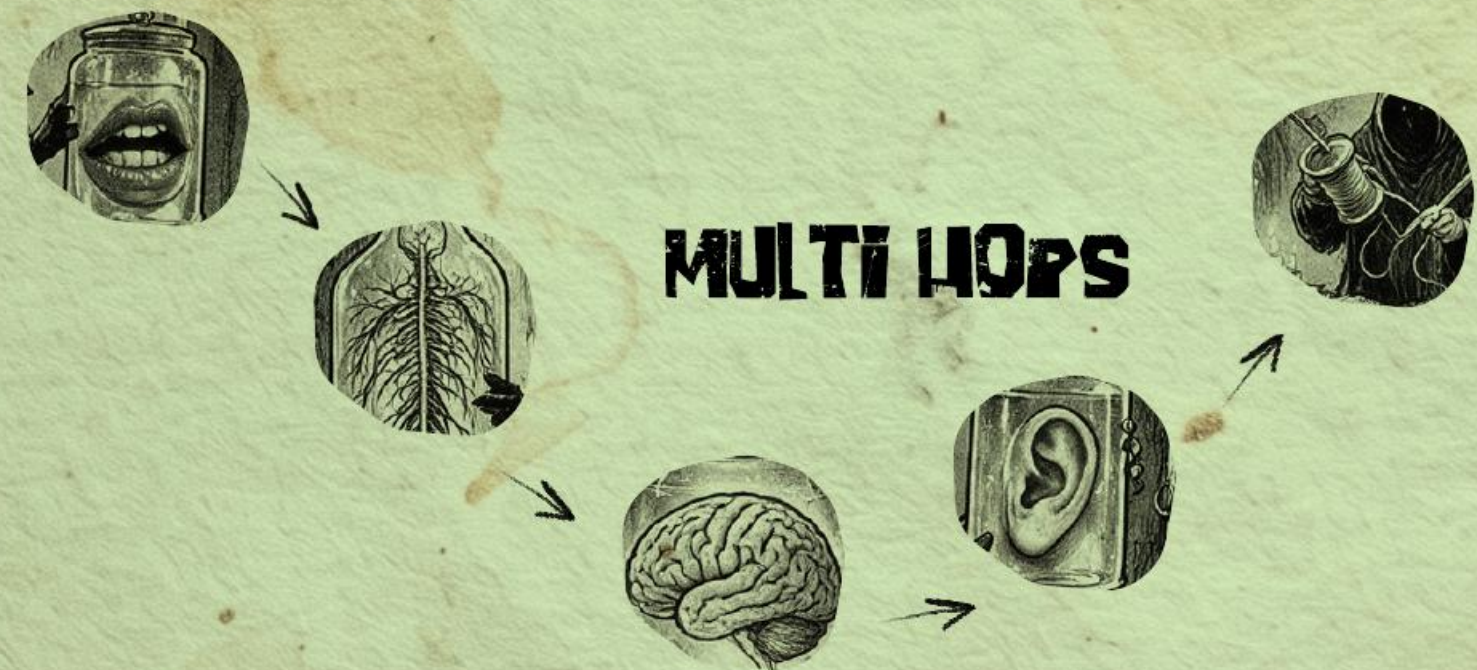


FIVE VENDORS FIVE CONTRACTS FIVE SLAS.



ACT. I

The parts were easy to find. An ear from one vendor. A mouth from another. A brain, rented by the token, living in a cloud region far, far away. A nervous system leased from a carrier's carrier. And thread to stitch it all together.



SHIP IT!

ACT. II

And on demo day, it lived.
It answered. It spoke.
Everyone clapped.



TESTED

BUG FIXED

in. by gpa
SMV



*individual
whosome
and answered
by kp-la'tire*

DELIVERED

...HELLO...

..HELLO? ARE YOU STILL THERE?



ACT. III

But in the village, people noticed the pauses. Every thought had to travel from the ear, across the internet, to the brain, back to the mouth. Each seam added 30 to 80 milliseconds. Nobody's fault. Everybody's fault.

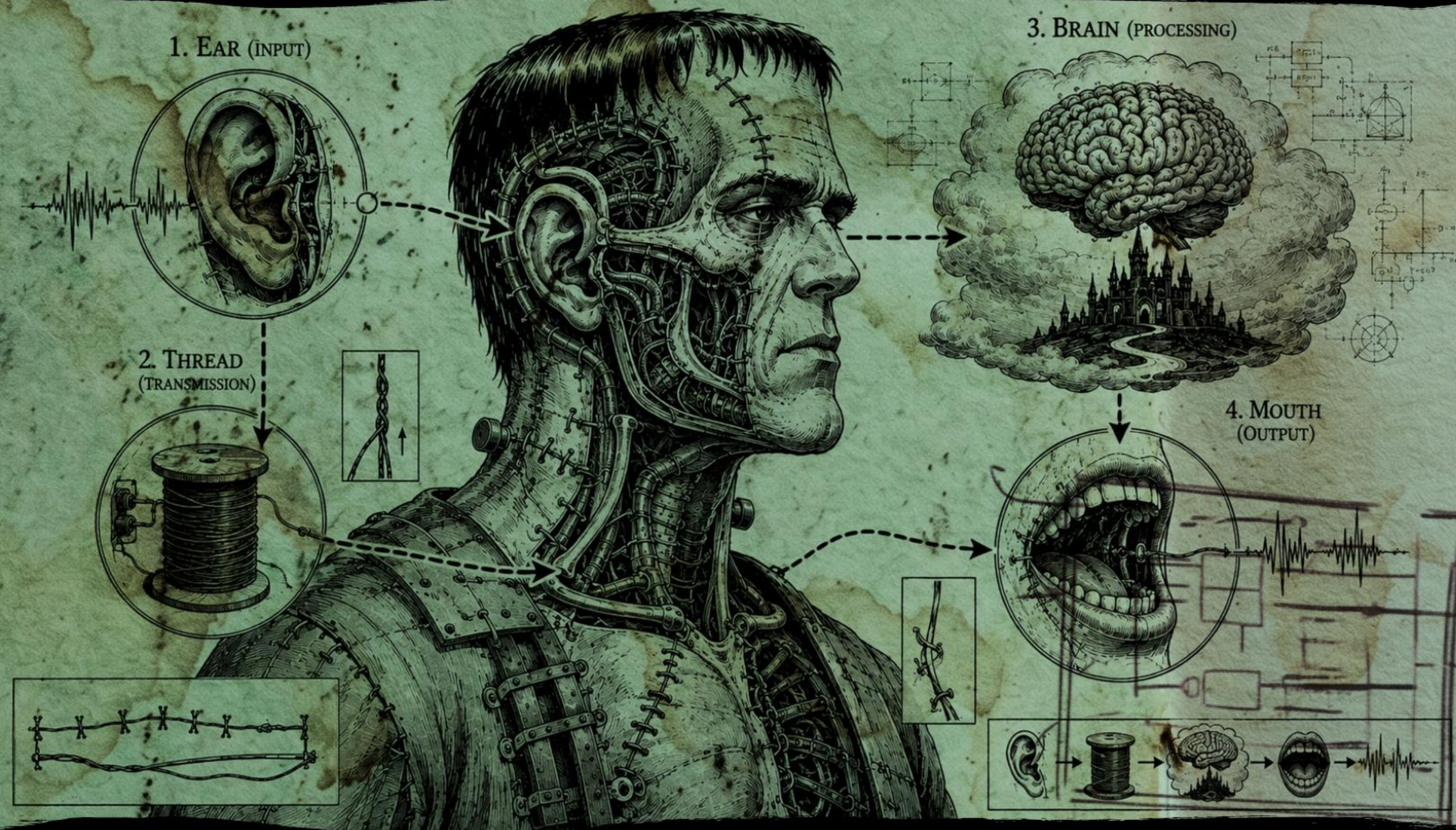


TIK TOK TIK TOK....

THE ANATOMY LESSON

ACT. IV

An anatomy of one reply:
transcription here,
reasoning there, synthesis
somewhere else, every hop a
trip across the public
internet. Physics does not do
prompt engineering. The
seams add up before any
model even thinks.



**THE CREATURE DID NOT COST TOO
MUCH BECAUSE IT WAS POWERFUL.**



ACT. V

Then came the bills. Each part carried its own margin. The mouth alone cost ten times what it should. The nervous system, three times. Four margins stacked on every single call.

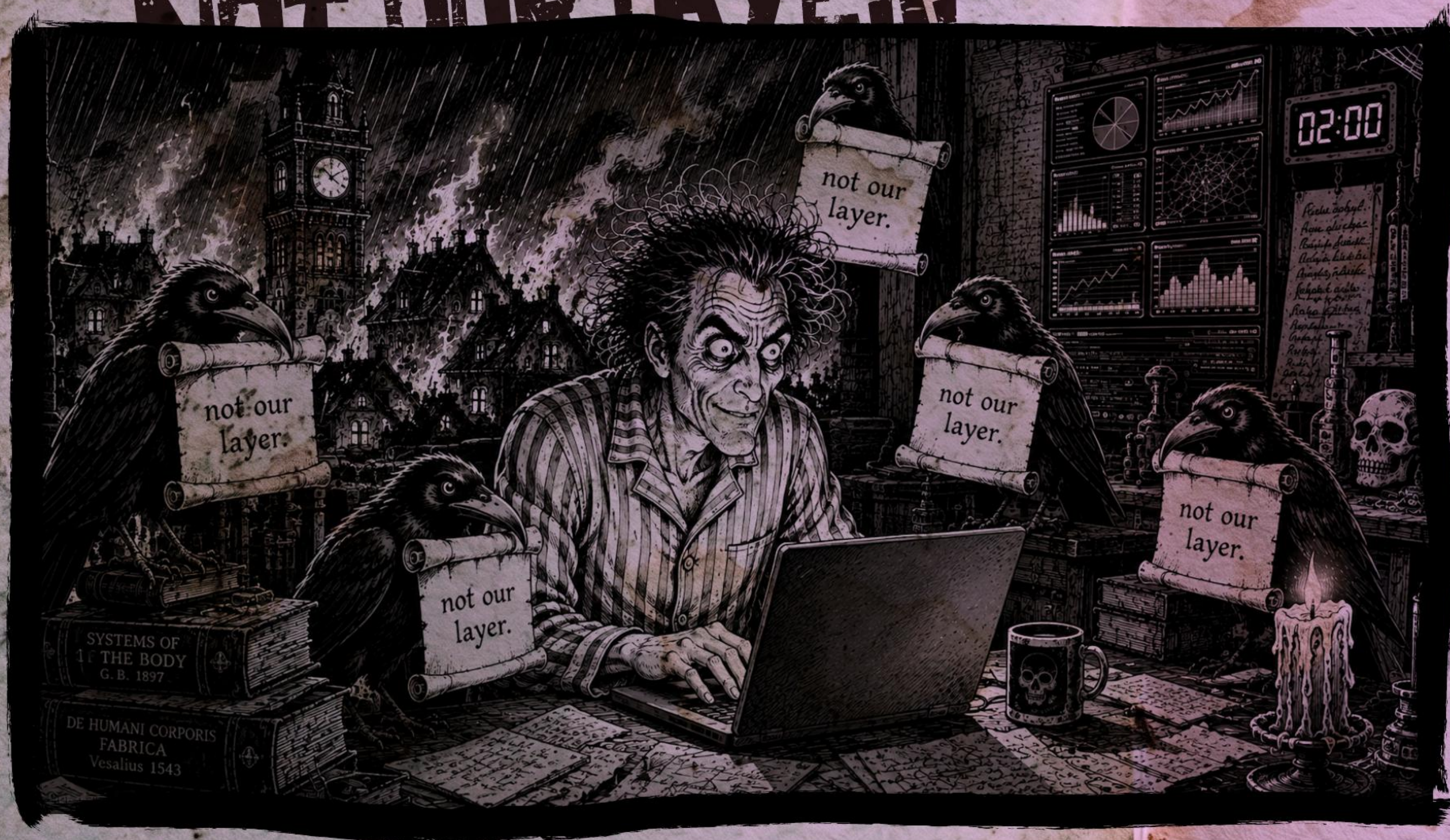


**IT COST TOO MUCH BECAUSE
IT WAS ASSEMBLED.**

NOT OUR LAYER. NOT OUR LAYER.
NOT OUR LAYER. NOT OUR LAYER.
NOT OUR LAYER.

ACT. VI

On the worst night, the creature stopped mid-sentence in front of everyone. The engineer wrote to the ear people. The ear people blamed the brain. The brain people blamed the mouth. The mouth people asked for a HAR file.



99.9% × 99.9% × 99.9% × 99.9% × 99.9%

WILL NEVER BE 100%

ACT. VII

Five parts, each promising 99.9%, together deliver 99.5%. That is four and a half hours of downtime a month, stitched into the design. The monster was not failing. It was working exactly as assembled.



**“ONE-STAR BECAUSE
I CAN'T GIVE ZERO!”**



ACT. VIII

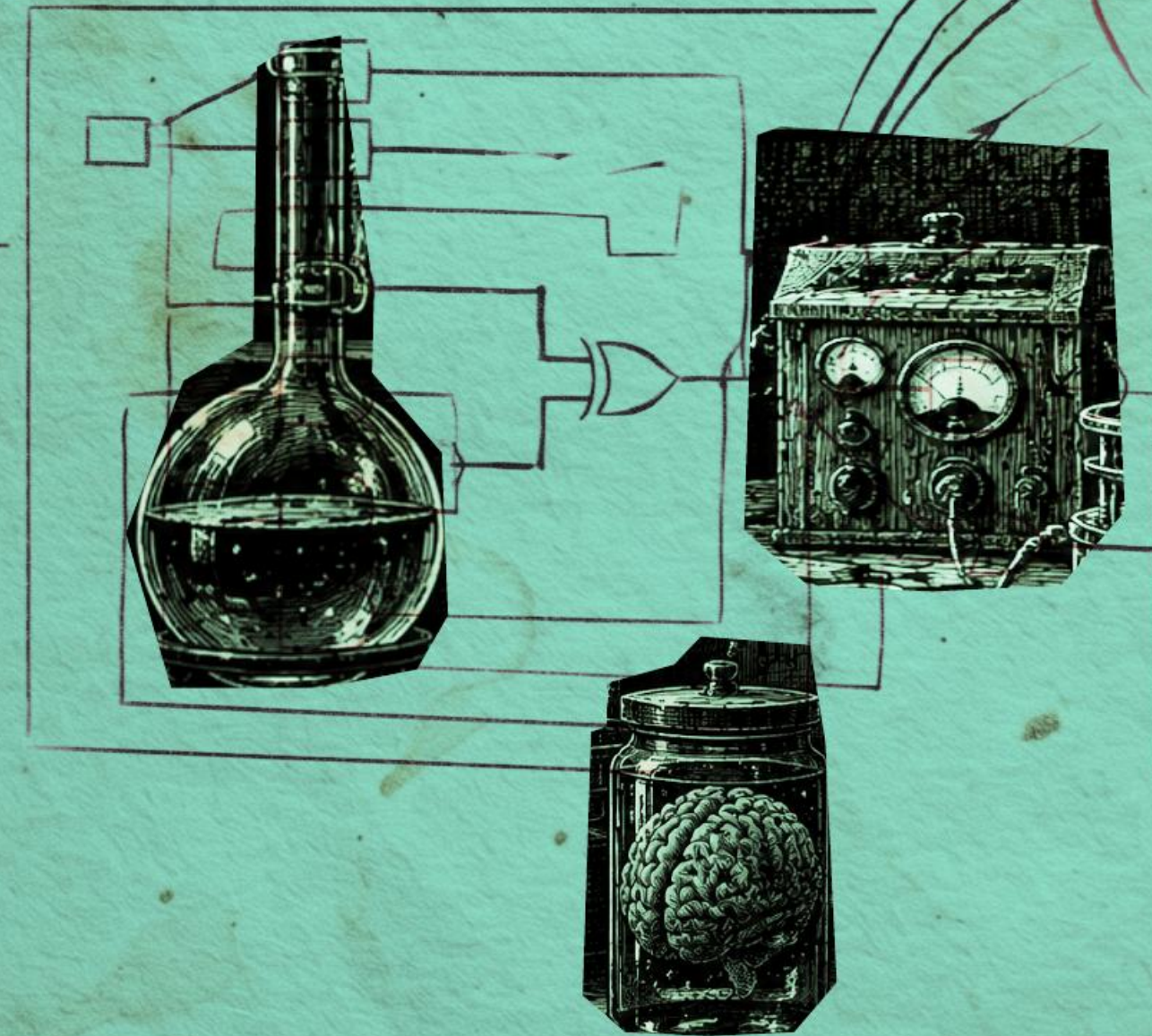
The village stopped calling
it innovative. They just
stopped calling.



IS THIS THE REAL FULL STACK BUILDER?

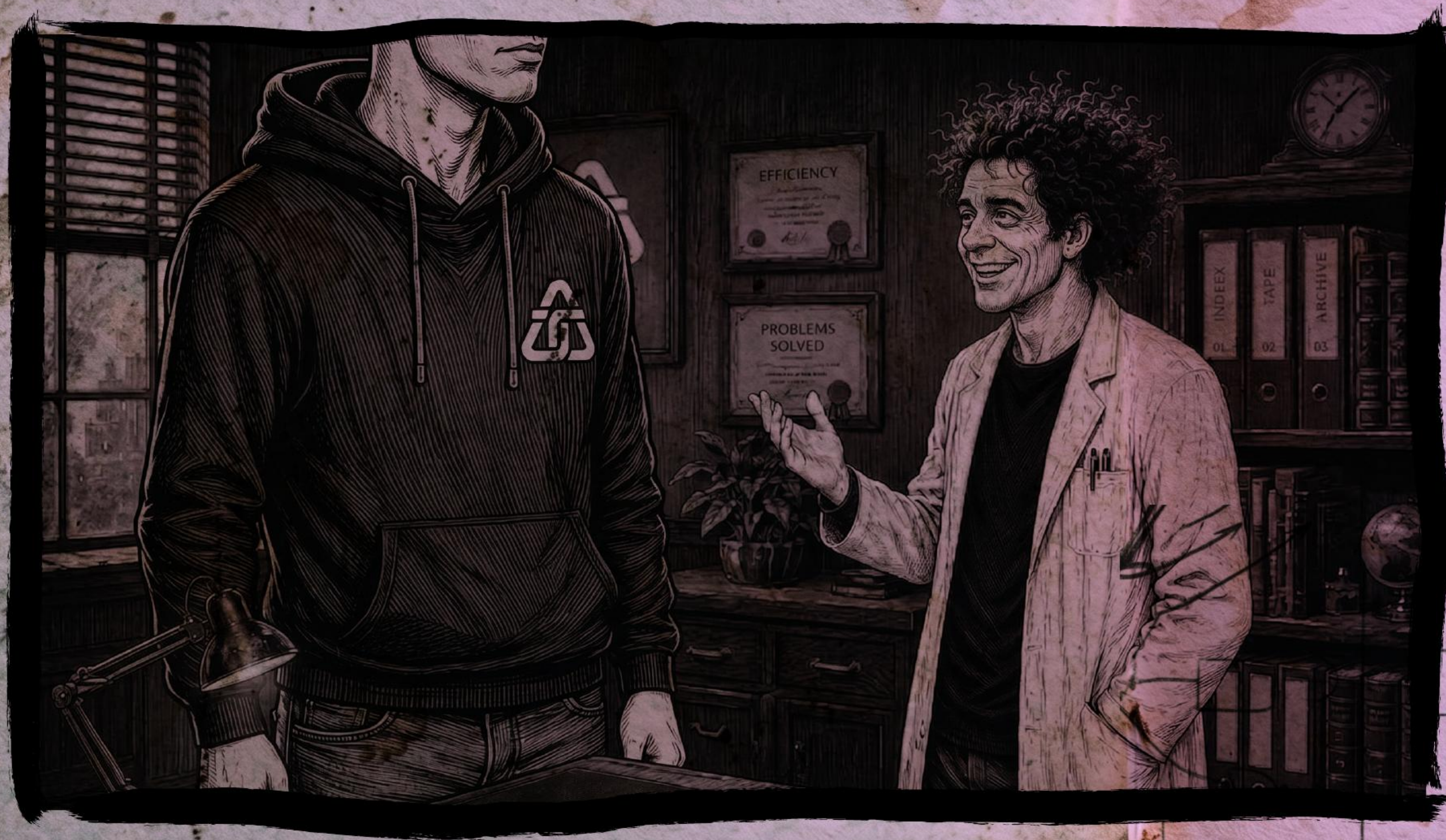
ACT. IX

Then the engineer met a
different kind of builder.
One who had not assembled a
creature at all.



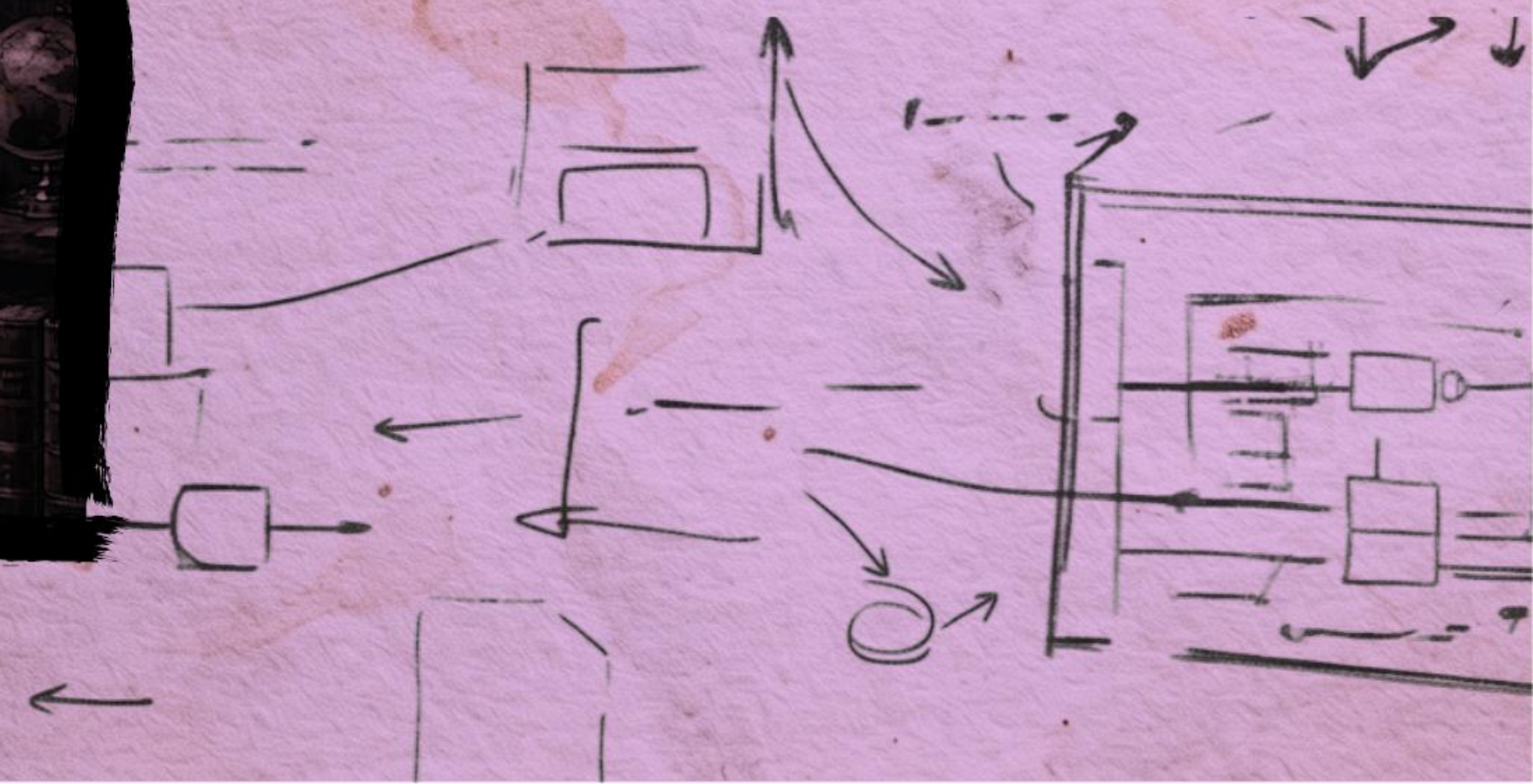
IT IS NOT AN OPTIMIZATION.

IT IS ANATOMY.



ACT. X

Here, the ear, the brain, the mouth, and the nervous system grew in one body, on one private network. The brain lives where the calls arrive, on GPUs the builder owns, not in a cloud region far away. Nothing crosses the public internet between thoughts.



OF COURSE! HOW CAN I HELP?

HI, CAN YOU HELP ME?



ACT. Xi

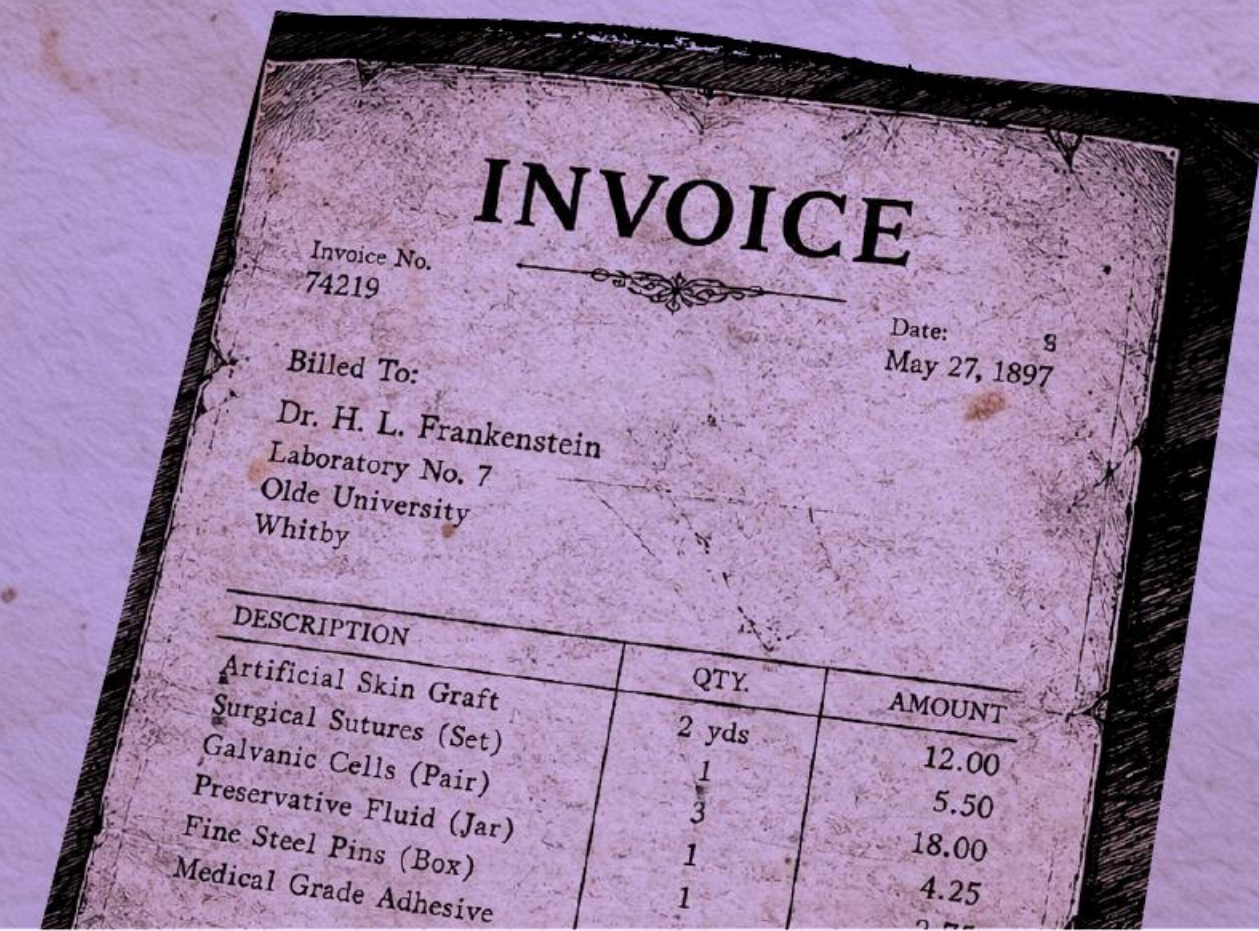
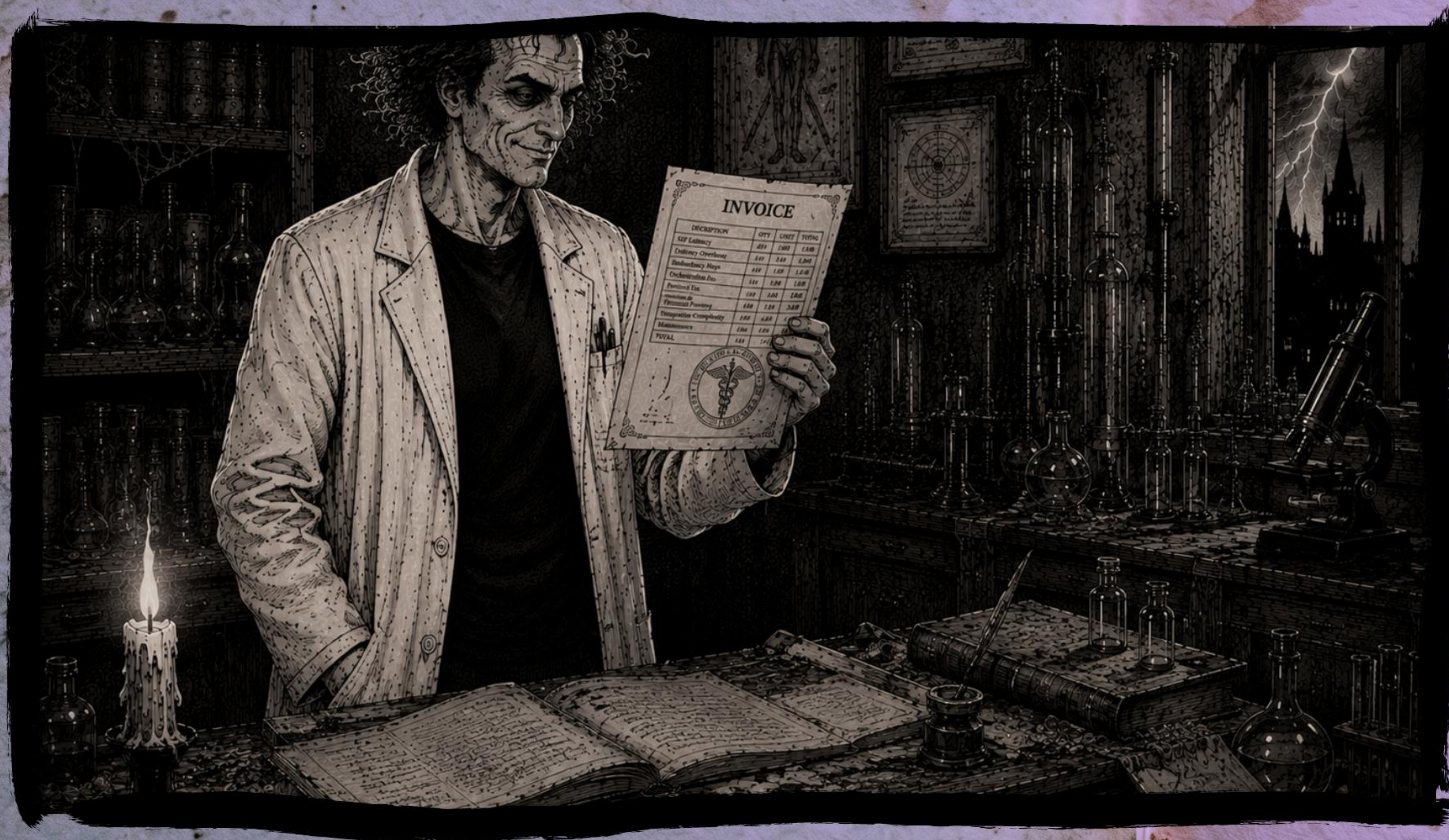
Conversation, at the speed of
one system.



ONE BILL ALL IN

ACT. XII

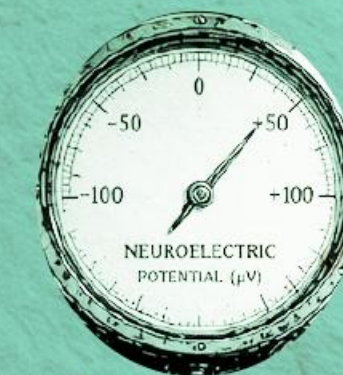
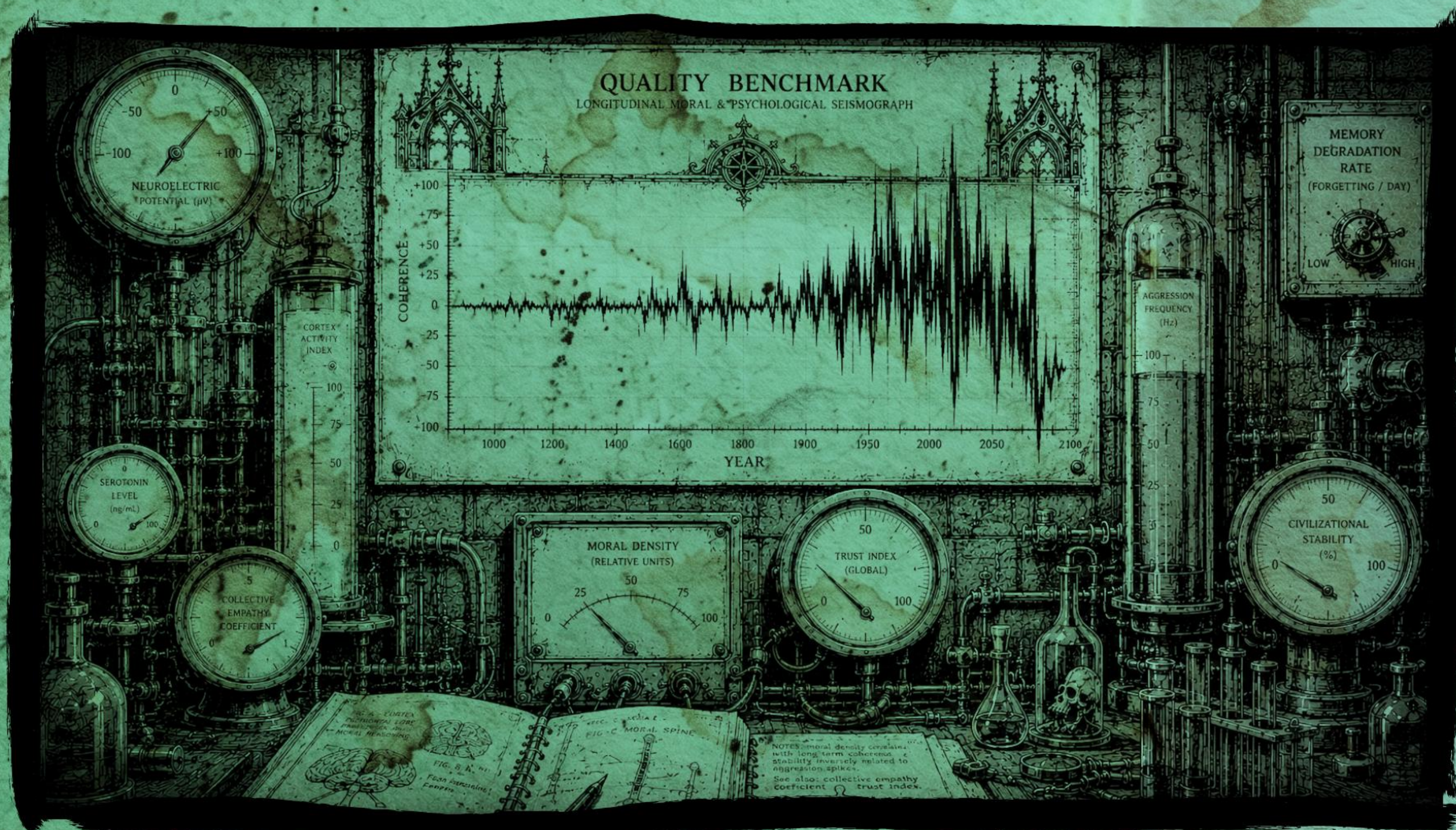
One bill: \$0.05 a minute, all-in, with the brain billed by the token from \$0.60 per million. One keeper who owns the whole body when anything hurts. Teams that rebuild this way typically spend about 45% less than they did on the creature.



< 500 MILLISECONDS FOR THE WHOLE ROUND TRIP

ACT. Xiii

And the measurements are public. Under 500 milliseconds for the whole round trip, ear to brain to mouth, while the assembled creatures publish half a second to a full second for partial pipelines, on good days. Independent benchmarks, not campfire stories.





NOW IT'S TIME TO MOVE ON



The moral is not that the parts were bad. Every part was excellent. The moral is that production voice AI is not a stitching problem. It is an infrastructure problem.

DON'T BUILD A FRANKENSTACK.

Build on infrastructure
that was born whole.

Telephony, speech, models,
and orchestration on one
private network.



telnyx

telnyx.com/voice-ai

