AlphaNode

Mines trading formulas.
Tells you the truth about them.

An evolutionary search that breeds alpha formulas over real crypto market data — on your machine — and holds every one of them to tests it cannot charm.

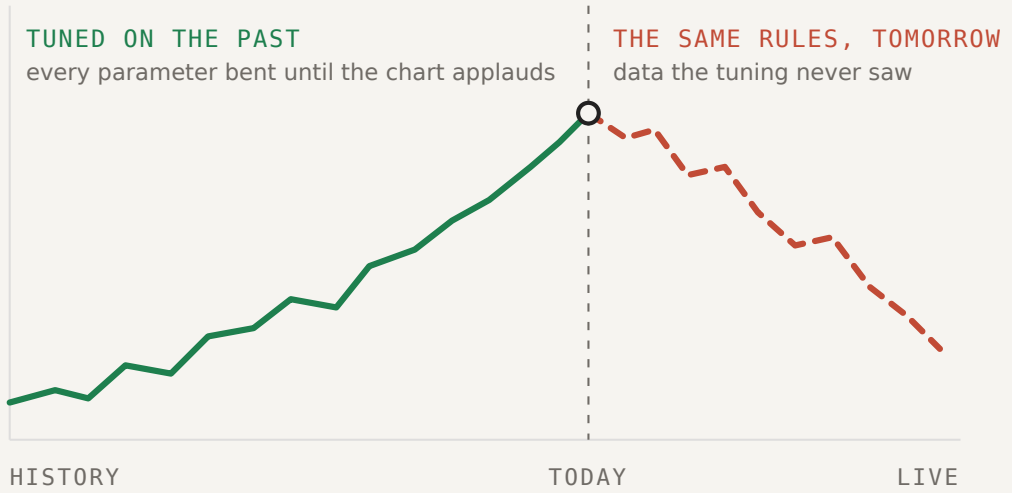
alphanode.tech

THE PROBLEM

Backtests flatter.

Tweak enough parameters and any chart turns green. That is not an edge — that is **memorizing history**. Then the strategy meets tomorrow and dies quietly, taking real money with it.

The hard part of finding alpha was never the finding. It is **knowing which finds are real** — before you trade them.



illustrative — the shape every overfit strategy shares

HOW IT WORKS

A factory with a quality gate at every door.

The pipeline is a sequence on purpose: each stage exists so a formula **earns its way toward your exchange** instead of jumping straight from a backtest. Nothing is hand-picked — the machine culls.

01 · MINE

Evolve

Formulas are small programs over price, volume and funding. A genetic search breeds them — 200 a generation, 25 generations, about **5,000 candidates a round** — inside a fee- and funding-aware simulator over years of history.

`out → a round's survivors`

→

02 · HOLD OUT

Grade

History is split. Fitness is the **worse** of two separate windows; a third, most recent slice stays locked and grades the finished formula once — pass or fail.

`out → champions with a TEST score`

→

03 · FORWARD

Track

One click enrols a champion into the forward track: paper steps on **closed live bars**, fees charged, appended one by one and never rewritten by the app.

`out → a record that is the record`

→

04 · SERVE

Deploy

Target weights for a formula or a whole portfolio, as **JSON on localhost**. Your execution, your keys, your risk — or the same node headless in Docker.

`out → this bar's weights`

WHAT A FORMULA IS

Readable, not a black box.

Every formula is a small tree of operators over market series — capped in depth and size so a human can still **read it aloud**. This one, from a real leaderboard:

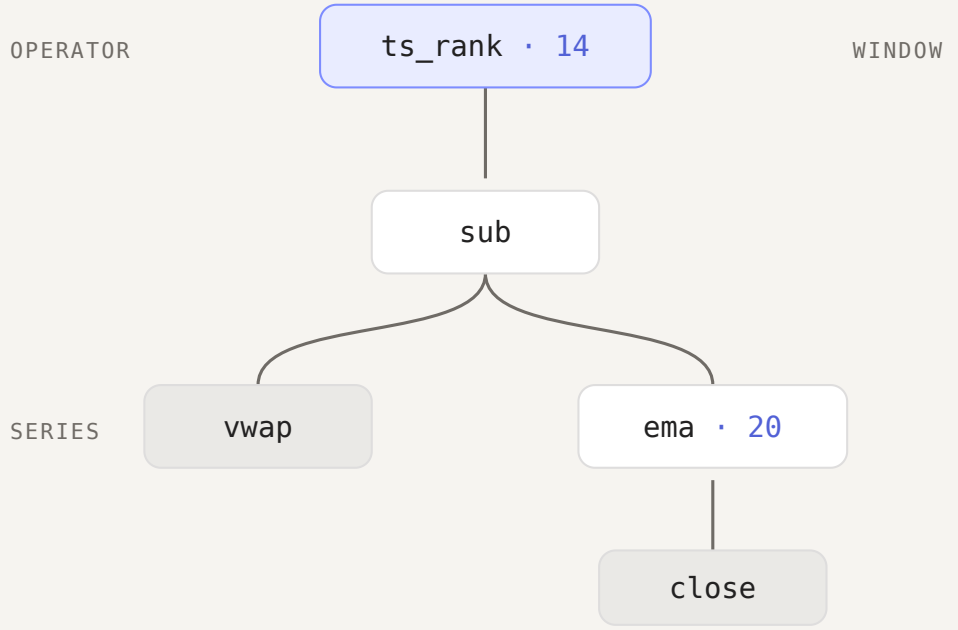
```
ts_rank(sub(vwap, ema(close, 20)), 14)
```

READS AS

Where does **today's gap between VWAP and the 20-bar average** sit among the last 14 bars — near the top, or near the bottom?

TRADES AS

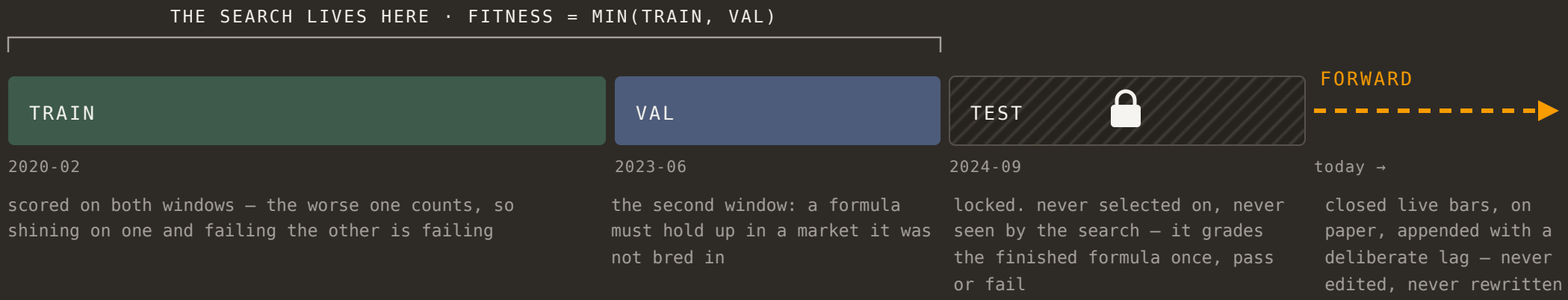
Higher rank → longer, lower → shorter, **across the whole basket**, sized to a target volatility. Every pair pays fees and funding on the way.



operators are the grammar · series are the words · windows are the numbers evolution tunes

THE HONESTY RULES

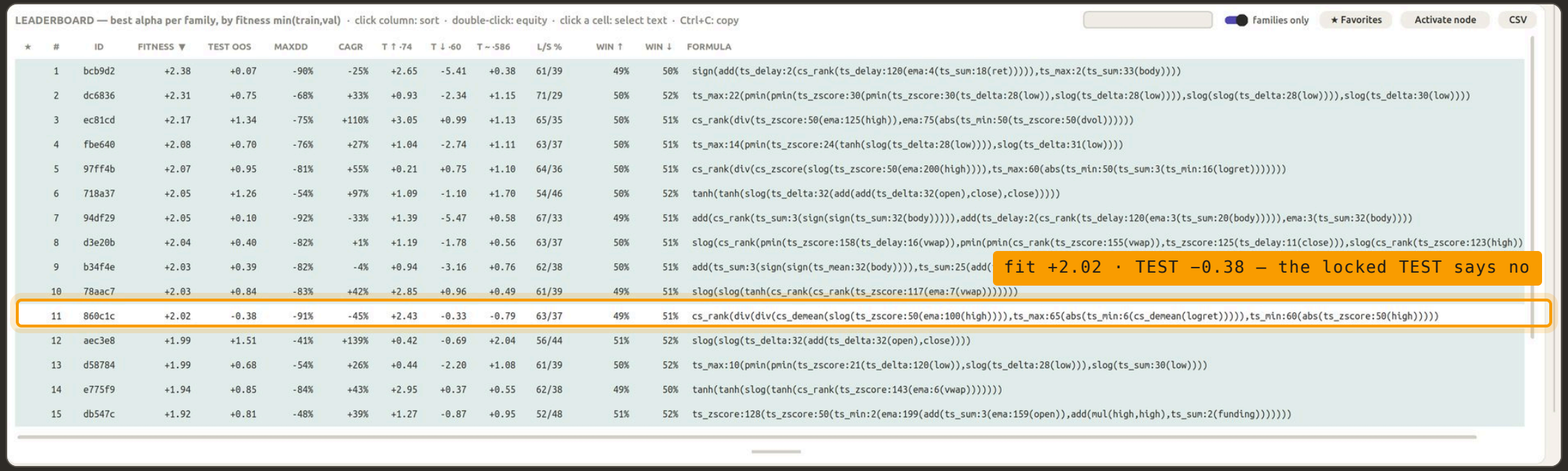
A formula cannot pass by memorizing the answers.



And every simulated trade pays exchange fees and funding. An edge that only exists before costs never reaches your screen. Views that rank by TEST are labeled as cherry-picking, because that is what they are.

WHAT YOU SEE

Honest numbers — including the red ones.



LEADERBOARD — best alpha per family, by fitness min(train,val) · click column: sort · double-click: equity · click a cell: select text · Ctrl+C: copy

families only | ★ Favorites | Activate node | CSV

★	#	ID	FITNESS ▼	TEST OOS	MAXDD	CAGR	T ↑ ·74	T ↓ ·60	T ~ ·586	L/S %	WIN ↑	WIN ↓	FORMULA
	1	bcb9d2	+2.38	+0.07	-90%	-25%	+2.65	-5.41	+0.38	61/39	49%	50%	sign(add(ts_delay:2(cs_rank(ts_delay:120(ema:4(ts_sum:18(ret))))),ts_max:2(ts_sum:33(body))))
	2	dc6836	+2.31	+0.75	-68%	+33%	+0.93	-2.34	+1.15	71/29	50%	52%	ts_max:22(pmin(pmin(ts_zscore:30(pmin(ts_zscore:30(ts_delta:28(low)),slog(ts_delta:28(low)))),slog(ts_delta:28(low)))),slog(slog(ts_delta:28(low)))),slog(ts_delta:30(low))))
	3	ec81cd	+2.17	+1.34	-75%	+110%	+3.05	+0.99	+1.13	65/35	50%	51%	cs_rank(div(ts_zscore:50(ema:125(high)),ema:75(abs(ts_min:50(ts_zscore:50(dvol))))))
	4	fbe640	+2.08	+0.70	-76%	+27%	+1.04	-2.74	+1.11	63/37	50%	51%	ts_max:14(pmin(ts_zscore:24(tanh(slog(ts_delta:28(low)))),slog(ts_delta:31(low))))
	5	97ff4b	+2.07	+0.95	-81%	+55%	+0.21	+0.75	+1.10	64/36	50%	51%	cs_rank(div(cs_zscore(slog(ts_zscore:50(ema:200(high)))),ts_max:60(abs(ts_min:50(ts_sum:3(ts_min:16(logret)))))))
	6	718a37	+2.05	+1.26	-54%	+97%	+1.09	-1.10	+1.70	54/46	50%	52%	tanh(tanh(slog(ts_delta:32(add(add(ts_delta:32(open),close),close)))))
	7	94df29	+2.05	+0.10	-92%	-33%	+1.39	-5.47	+0.58	67/33	49%	51%	add(cs_rank(ts_sum:3(sign(sign(ts_sum:32(body))))),add(ts_delay:2(cs_rank(ts_delay:120(ema:3(ts_sum:20(body))))),ema:3(ts_sum:32(body))))
	8	d3e20b	+2.04	+0.40	-82%	+1%	+1.19	-1.78	+0.56	63/37	50%	51%	slog(cs_rank(pmin(ts_zscore:158(ts_delay:16(vwap)),pmin(pmin(cs_rank(ts_zscore:155(vwap)),ts_zscore:125(ts_delay:11(close))),slog(cs_rank(ts_zscore:123(high))
	9	b34f4e	+2.03	+0.39	-82%	-4%	+0.94	-3.16	+0.76	62/38	50%	51%	add(ts_sum:3(sign(sign(ts_mean:32(body)))),ts_sum:25(add(
	10	78aac7	+2.03	+0.84	-83%	+42%	+2.85	+0.96	+0.49	61/39	49%	51%	slog(slog(tanh(cs_rank(cs_rank(ts_zscore:117(ema:7(vwap)))))))
	11	860c1c	+2.02	-0.38	-91%	-45%	+2.43	-0.33	-0.79	63/37	49%	51%	cs_rank(div(div(cs_demean(slog(ts_zscore:50(ema:100(high)))),ts_max:65(abs(ts_min:6(cs_demean(logret))))),ts_min:60(abs(ts_zscore:50(high)))))
	12	aec3e8	+1.99	+1.51	-41%	+139%	+0.42	-0.69	+2.04	56/44	51%	52%	slog(slog(ts_delta:32(add(ts_delta:32(open),close))))
	13	d58784	+1.99	+0.68	-54%	+26%	+0.44	-2.20	+1.08	61/39	50%	52%	ts_max:10(pmin(pmin(ts_zscore:21(ts_delta:120(low)),slog(ts_delta:28(low))),slog(ts_sum:30(low))))
	14	e775f9	+1.94	+0.85	-84%	+43%	+2.95	+0.37	+0.55	62/38	49%	50%	tanh(tanh(slog(tanh(cs_rank(ts_zscore:143(ema:6(vwap)))))))
	15	db547c	+1.92	+0.81	-48%	+39%	+1.27	-0.87	+0.95	52/48	51%	52%	ts_zscore:128(ts_zscore:50(ts_min:2(ema:199(add(ts_sum:3(ema:159(open)),add(mul(high,high),ts_sum:2(funding)))))))

fit +2.02 · TEST −0.38 — the locked TEST says no

real screenshot · advanced screen · daily bars · every column computed on data the search never touched, except FITNESS

THE APP

One button. The rest is a report.

SEARCH

rounds, generations and finds as they happen — Start is the only decision

CHAMPIONS

fitness next to the held-out test, side by side, red where it is red

PORTFOLIO

the best clean combination, rebuilt after every round, drawn across all three windows

SERVING

live target weights on local ports, ready for your own execution

Autopilot on by default · every knob, the full leaderboard and the portfolio tools on the same screen

IN THE BOX

From first launch to your own pipeline.

FORWARD TRACK

Enrol a champion and it collects **paper steps on closed live bars**, fees charged, for as long as you leave it. The chart you show yourself later is the one that was written then.

PORTFOLIO & PDF

Combine your best formulas into **one portfolio** through the real engine, read a **PDF report** of how it would have traded — and a warning line when the members were picked by TEST.

SIGNAL API

A local JSON endpoint serves **this bar's target weights and leverage** for a formula or a basket. Wire it into your own execution when you decide to go live — your keys, your risk, your code.

HEADLESS & DOCKER

The same node on a server with a **live status page**, CLI control and a forward track that steps itself. Fetches its own data, keeps mining unattended — a laptop core or a $20 box.

YOURS, LOCALLY

Runs on your hardware. Finds stay yours.

PRIVATE

Mining and forward tracking read **public market data only** — no exchange API keys, no cloud. The only thing that leaves the machine is a licence check.

EVERYWHERE

Windows, macOS, Linux — self-contained builds, nothing to install first — or a headless server node with one Docker compose file.

UNIQUE

Each install mines from its **own seed**: no two nodes walk the same path, so your library is yours in both senses. Pick the basket too — five majors by default, any USDT perpetuals you like.

SEALED

On disk, mined formulas are **encrypted to your account** — a copied library file is useless on someone else's machine. Your key opens them; nobody else's does.

YOUR FIRST WEEK

Minutes to a leaderboard. Days to a track record.



Mining first and activating later is fine — **nothing found is lost**. Everything before day 2 runs without a key; the sealed formulas simply wait.

FREE TO RUN, PAID TO OPEN

The node is yours from the first minute.

WORKS WITHOUT A KEY

Install, mine, judge it yourself

Mining — as many rounds as you like, on any timeframe from 15m to 1d

The simulator with fees and funding, the held-out grading

The leaderboard — fitness, TEST, drawdown, CAGR of every sealed formula

Your basket, your CPU share, Simple or Advanced

THE KEY OPENS

What the node found

The formulas themselves, readable, in your library

Signals and the Serve endpoint for your execution

The forward track — the paper record on live bars

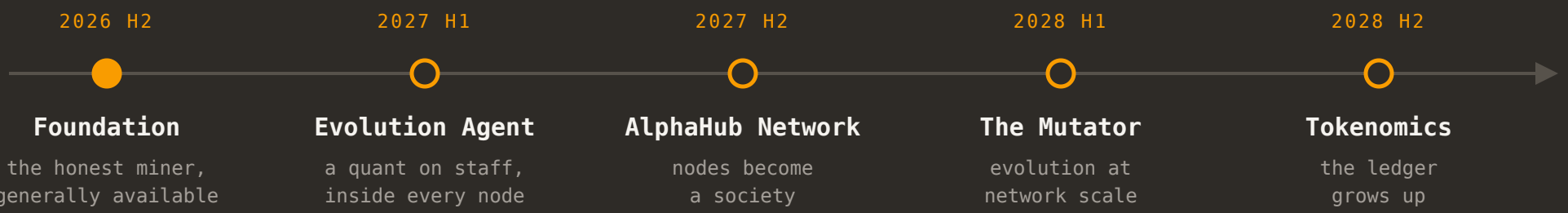
Portfolio PDF reports

99 USDT per 30 days · the first 30 days included **one key** · your set of machines

pause any time — access comes back when you do

WHERE THIS GOES

From one honest node to a network of them.



THE RULE

Economy before token. Every stage has to pay for itself with honest nodes and real subscriptions before a ledger is allowed to exist — the network is built on the miner, never the other way round.

THE CONSTANT

Honesty is not negotiable, and formulas stay **sealed by design** — at network scale exactly as on one laptop. The full plan lives at alphanode.tech/roadmap.

GET ALPHANODE

Three steps to your first formula.

1 · REGISTER	One form at **alphanode.tech** — pick **«Nothing yet»** if you only want to look. The downloads open the moment it is sent.
2 · MINE	Install for your machine, press **Start**. It mines from the first minute, and the leaderboard fills while you watch — no key, no card.
3 · ACTIVATE	When you want to open what it found, the key arrives by email after payment; press **Activate**, paste it once, and everything sealed on that machine opens.

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AlphaNode is research software, not investment advice. Simulated and paper results have inherent limitations, and the figures on these slides are illustrative except where marked as a real screenshot — read the risk disclosure at alphanode.tech.