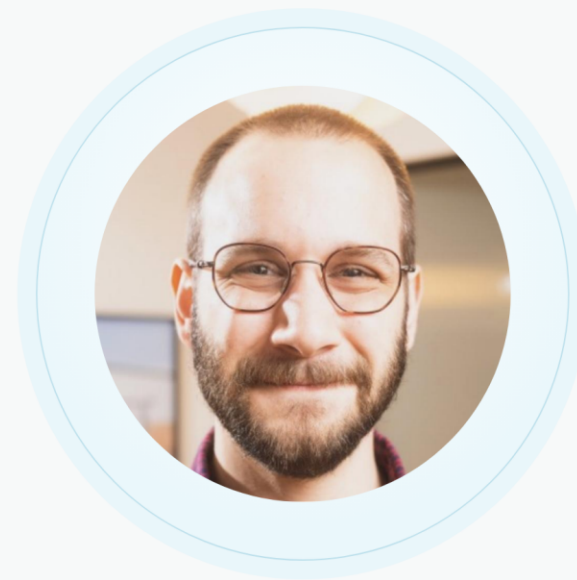


Customer-facing AI: making agent outputs trustworthy enough to ship.



LUKE PENDERGRASS

THE PROMISE

Agents can finally work directly with your data.

High-touch, non-deterministic problems are suddenly addressable.

THE PROBLEM

**Agents are stalling before
getting to production.**

markdown → context window → predicted tokens

Trust is the problem

01 DISCONNECTED

A predicted token is not a query result.

Token outputs are simply not connected to the underlying data source in any way. There's no deterministic link, and that's dangerous.



02 COSTLY

Every turn is a round trip.

Ballooning context with excessive data, excessive agent re-run loops, opaque tool calling.



03 POISONED

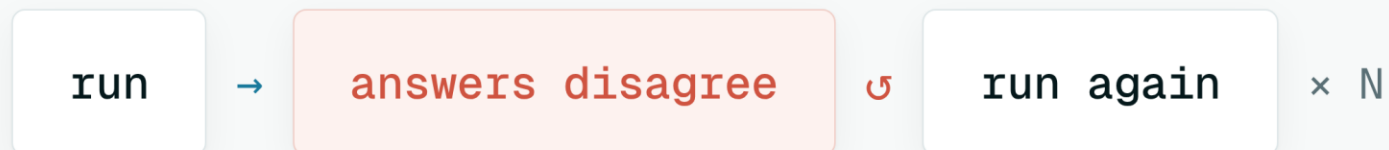
Hallucinated data enters the context.

One imaginary data source breaks the entire chain.



TYPICAL SOLUTION

The fix today: rerun everything.

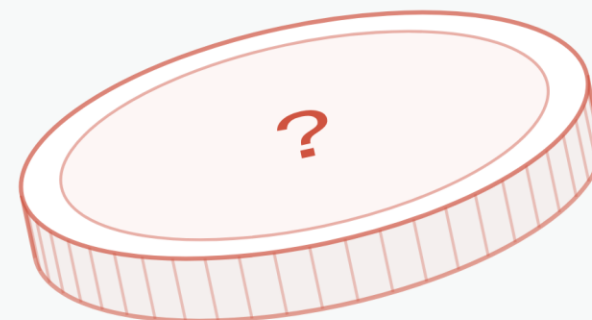


EXPENSIVE

SLOW

ERROR PRONE

Flip the coin enough times and hope the answers agree.



What do we need?

- 01 Ensure data agents provide is always backed by a real data source: a query.
- 02 Keep an audit trail of all data that composes agent responses.
- 03 Efficiently manage access to data sources and token infrastructure.

And make it all human interpretable.

How it works

01 CONNECTED

Every number comes from an executed query.

Lineage cited by construction: a deterministic link from output back to source.



02 SELECTIVE

Cache hits replace round trips.

Cataloged artifacts are reused, not recomputed. Less context, fewer turns.



03 VERIFIED

Nothing unverified enters the chain.

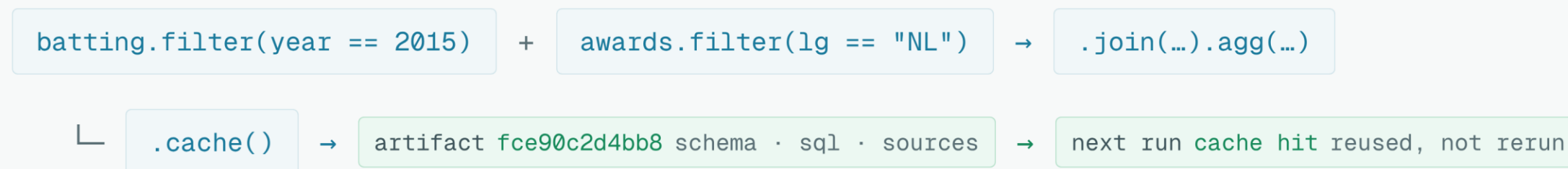
Cycling verification composes increasingly complex artifacts, ensuring lineage and accuracy.



THE HARNESS

A harness built on a catalog of expressions.

Expressions compose. A cache boundary turns the composition into a reusable artifact.



Agent writes, executes against source data, verifies, and reuses.

More **accuracy** per token

On a public benchmark, the cheapest model + **Xorq** beats the expensive model alone.

+34 pts

ACCURACY

50% → 84%

-60 %

TOKENS

566k → 228k

-56 %

TURNS

14.3 → 6.2

DABSTEP BENCHMARK / 450 PAYMENT QUERIES



Haiku + Xorq beats Sonnet alone.

00 WHAT IS XORQ

Xorq is an **agent executable memory system** that allows agents to verify every data step and build on **cached, human interpretable artifacts.**

expr 51241c900965 · 2 cols

• VERIFIED · CACHE HIT





Thank *you.*

Try Xorq

xorq.dev



Scan to try Xorq