



# FAVA Trails

Federated Agentic Versioned Audit Trail

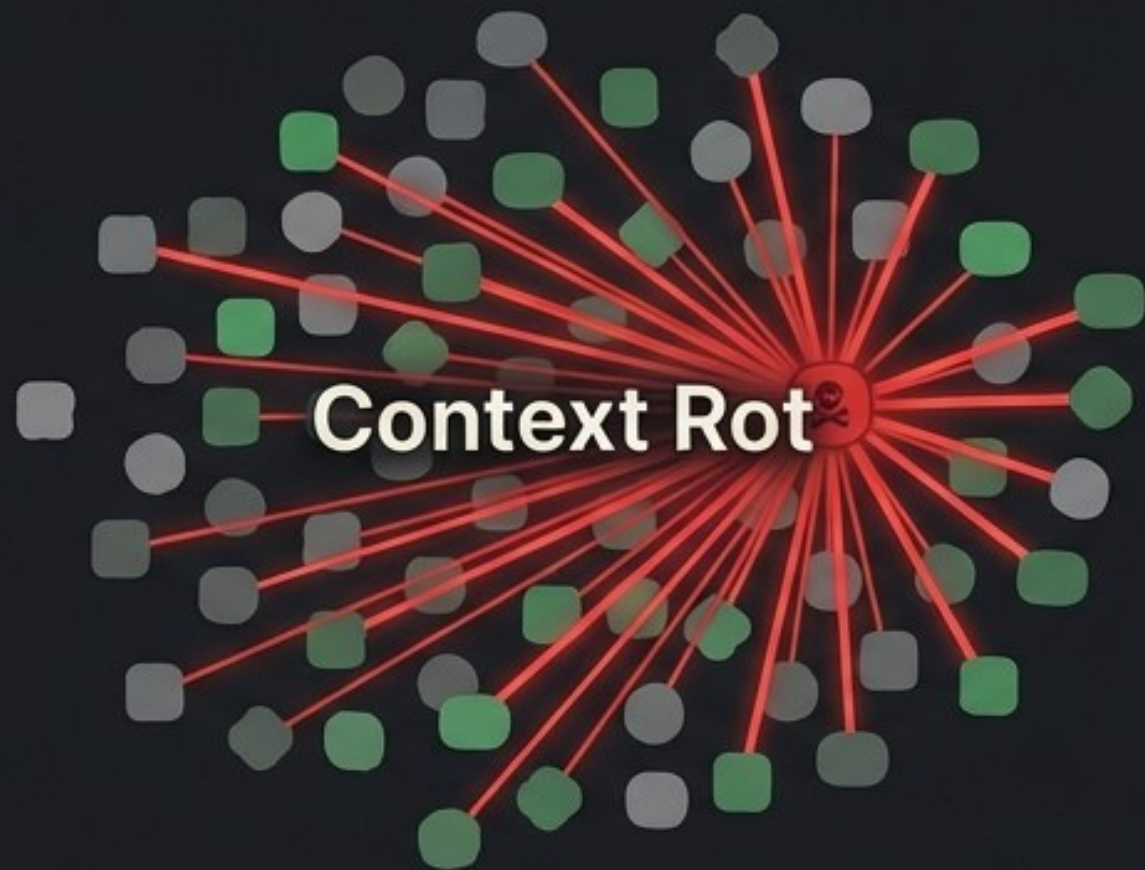
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## **Curated Agent Memory That Syncs Across Your Environments.**

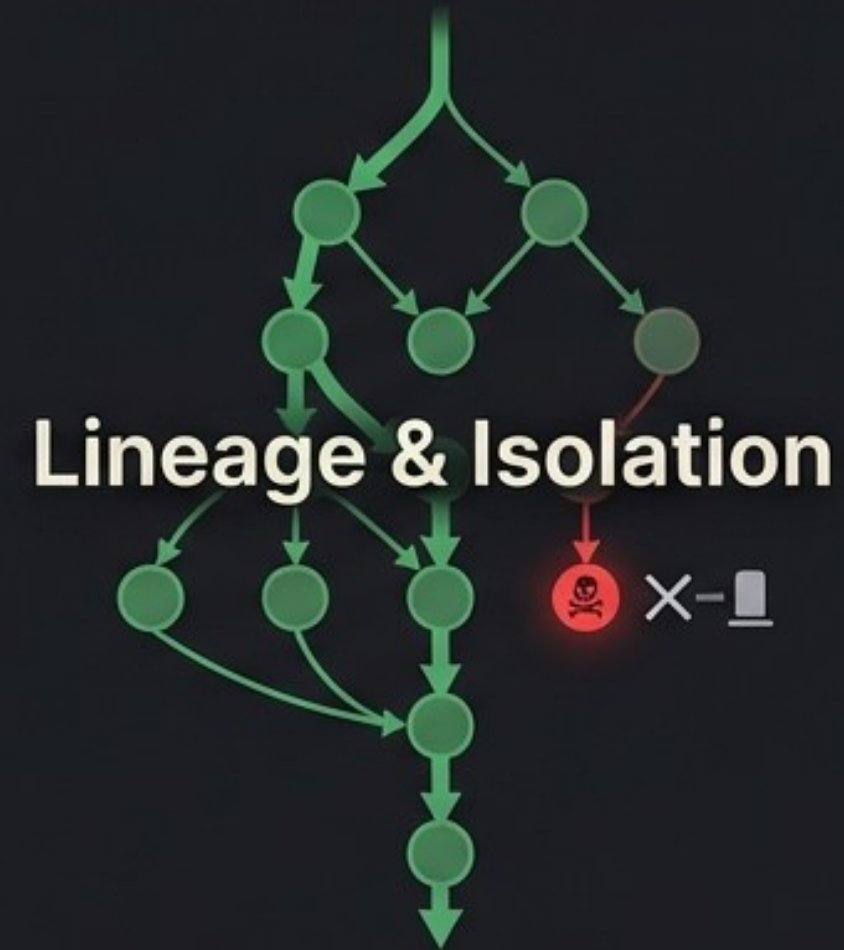
Stop letting unvalidated thoughts become shared truth. A memory system built on the principles of version control, designed for the 'Correctness-Congruence Gap'.

# The Failure Mode: Memory Poisoning

## Vector Store Flatness



## FAVA Lineage



### Context Rot:

One bad thought propagates to downstream agents instantly.

### The Gap:

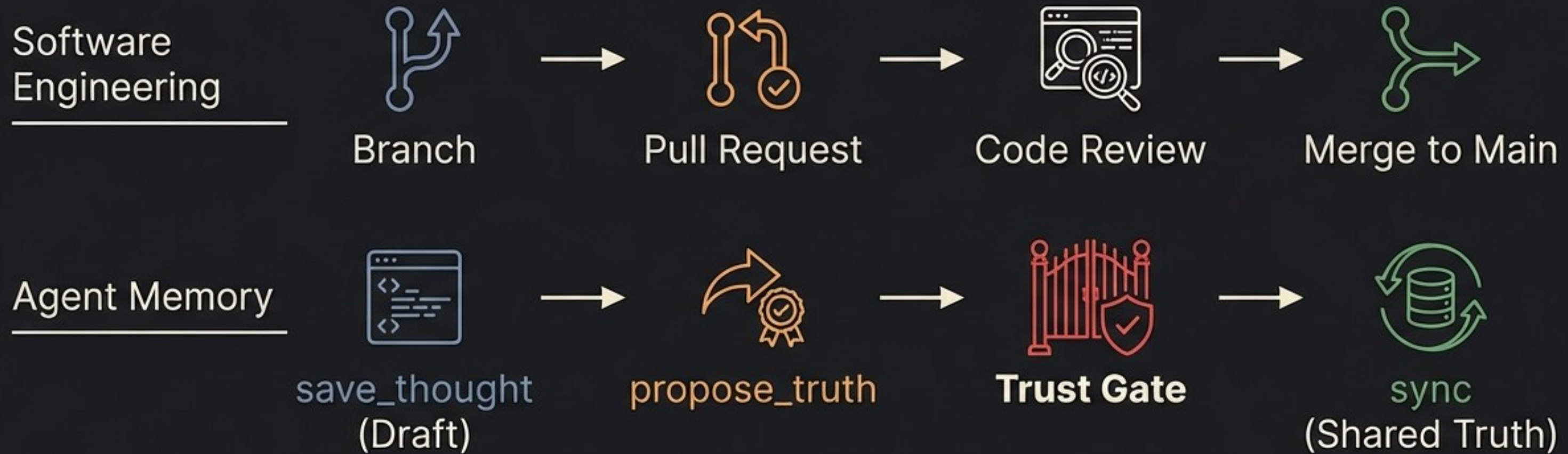
Technical correctness (valid JSON)  $\neq$  Intent alignment

### Persistence:

Hallucinations survive across sessions without review.

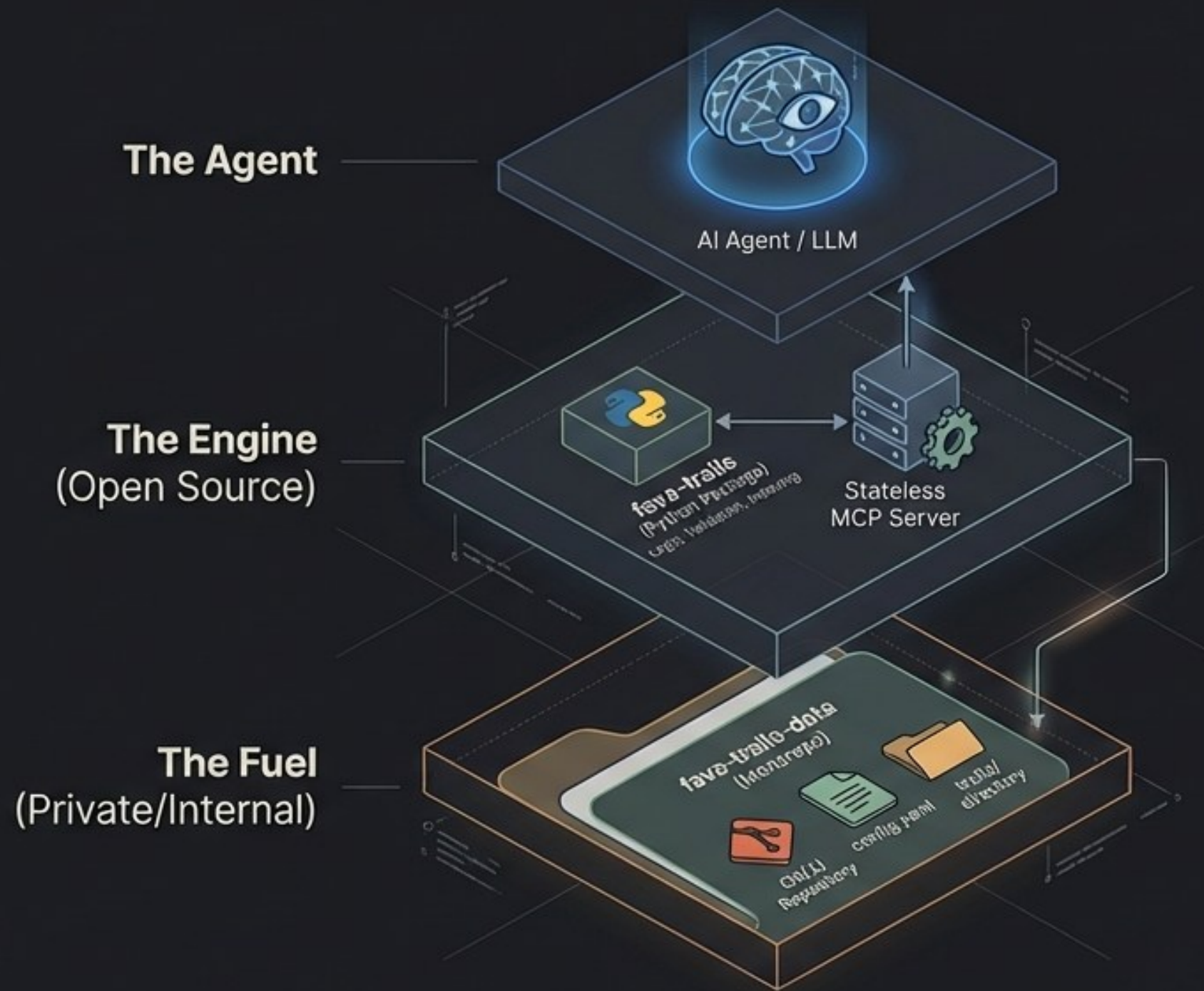
# Philosophy: Memory as Code

The Staging Environment for Thoughts



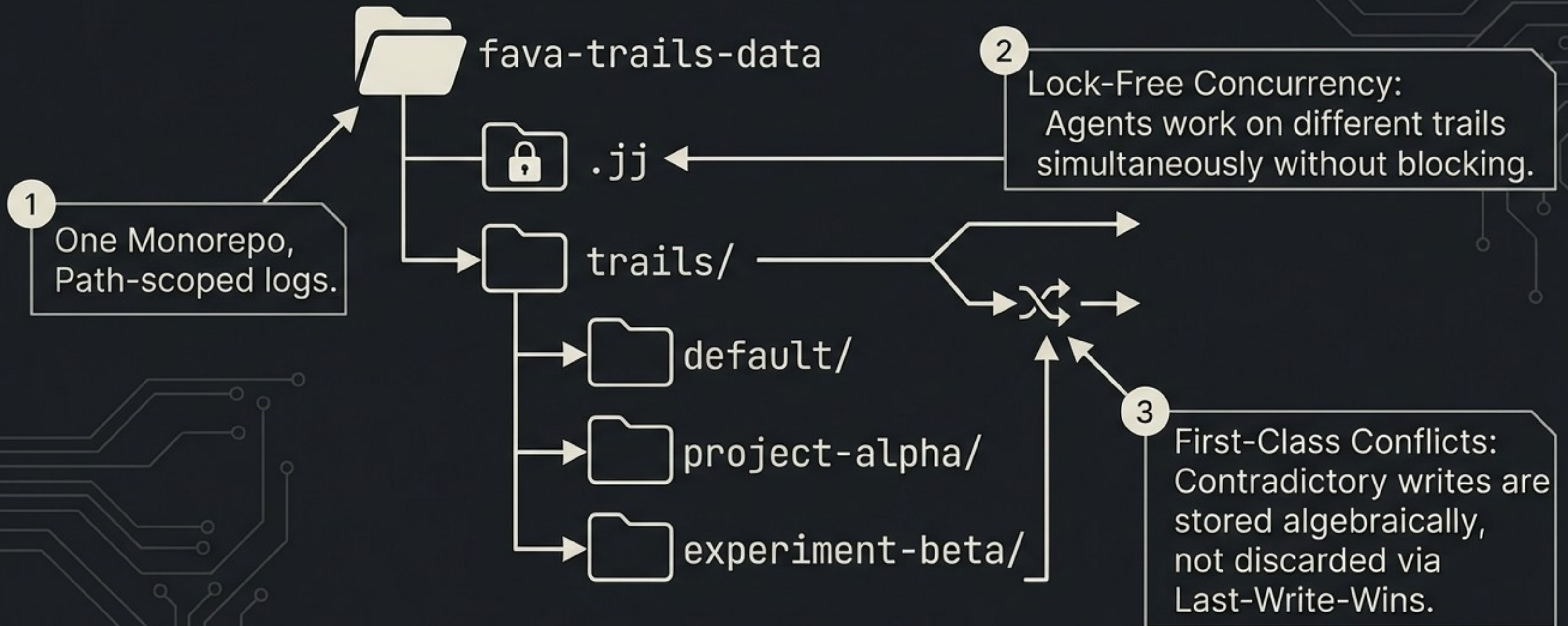
*"We don't let untested code reach production.  
Why do we let unvalidated thoughts reach shared agent memory?"*

# Architecture: Engine vs. Fuel



Agents interact with semantic objects via MCP tools, never with VCS commands directly.

# “The Storage Substrate: Why Jujutsu (JJ)” in *Inter Tight*



# Mutable Content, Immutable Identity

📄 "The Thought" file

**Identity (Immutable)** 🔒 🔒

thought\_id: UUID    created\_at: Timestamp    agent\_id: Claude

**Lifecycle (System-Managed)**

validation\_status: PROPOSED    PROPOSED → APPROVED → SUPERSEDED  
superseded\_by: NULL    updated\_at: Timestamp

**Content (Mutable)** ✎

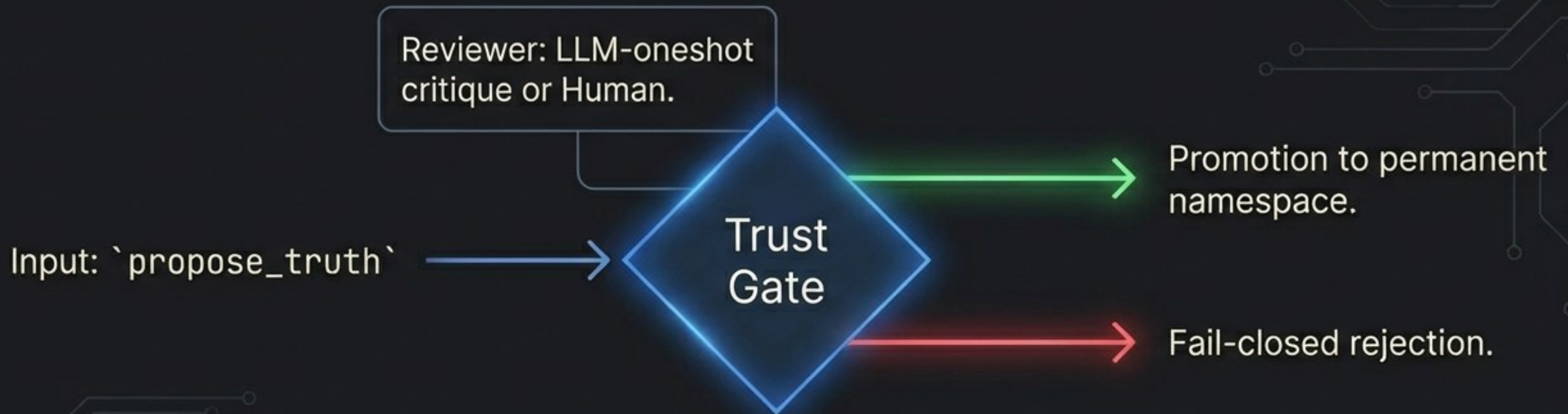
Markdown body text. Freely editable via `update\_thought` until approval.

⚠️ Content freezes upon Approval. Updates after approval require Supersession.

# The Lifecycle: From Draft to Truth



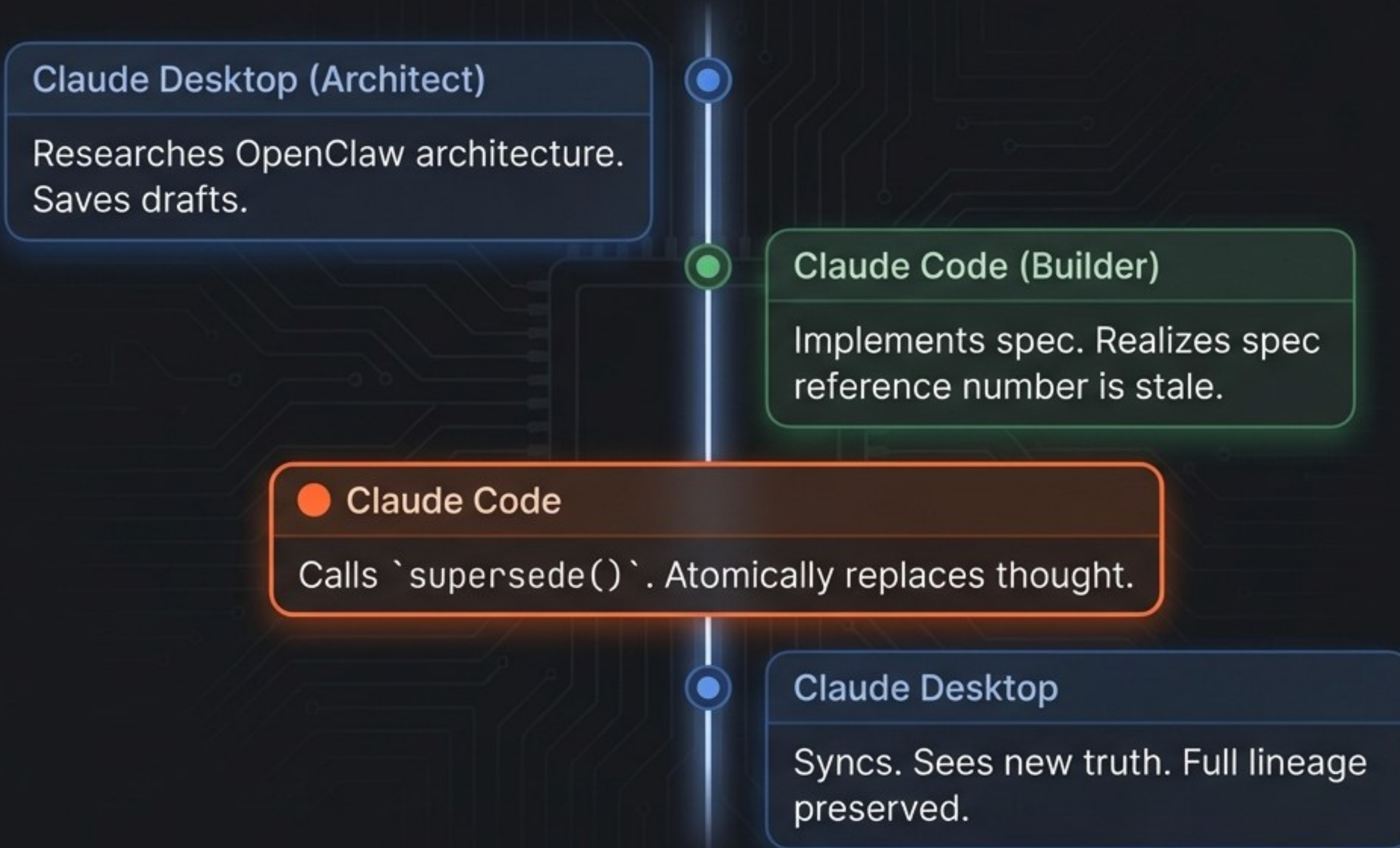
# The Trust Gate: Defense Against Hallucination



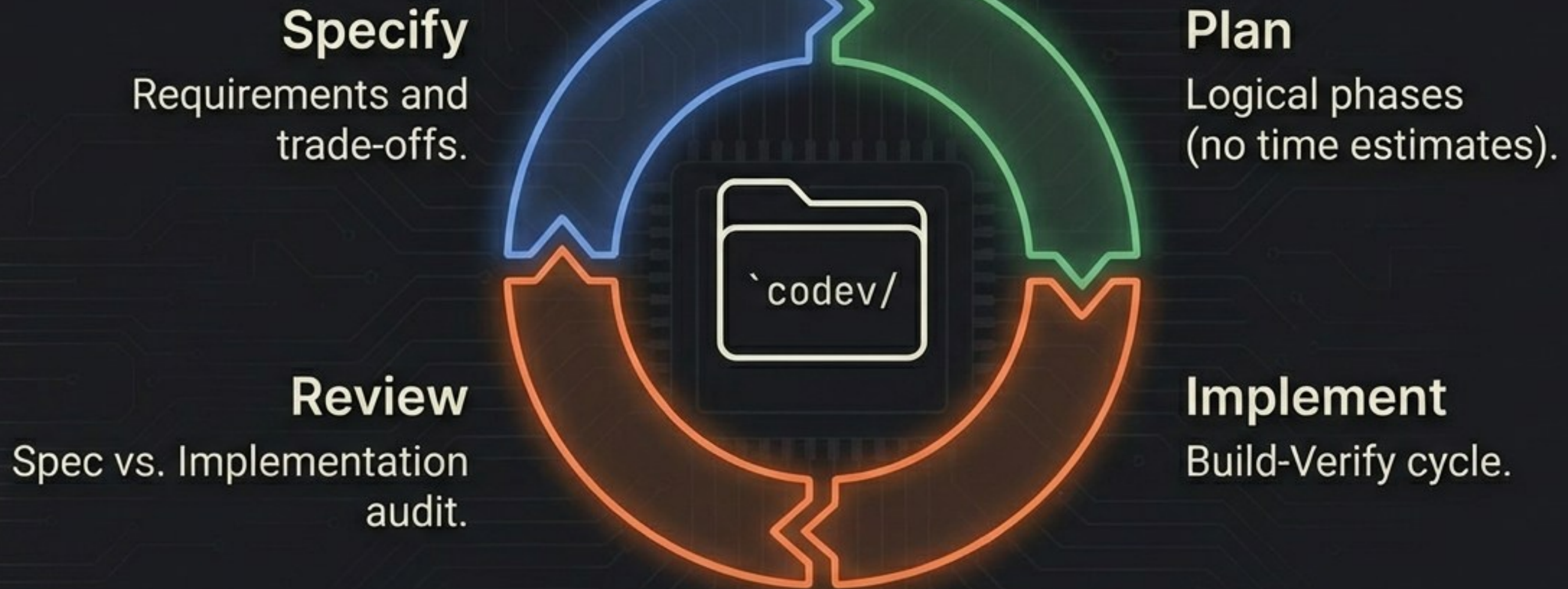
Checks for fatal signals ('impossible', 'stuck'), formatting, and logic.

**Fail-Closed Semantics:** The gate never silently approves. If the reviewer fails, the thought stays in DRAFTs.

# Case Study: The Cross-Agent Correction



# Built with SPIR: The Engineering Protocol



FAVA Trails was built using the methodology it enables.  
We manage our own artifacts within the system.

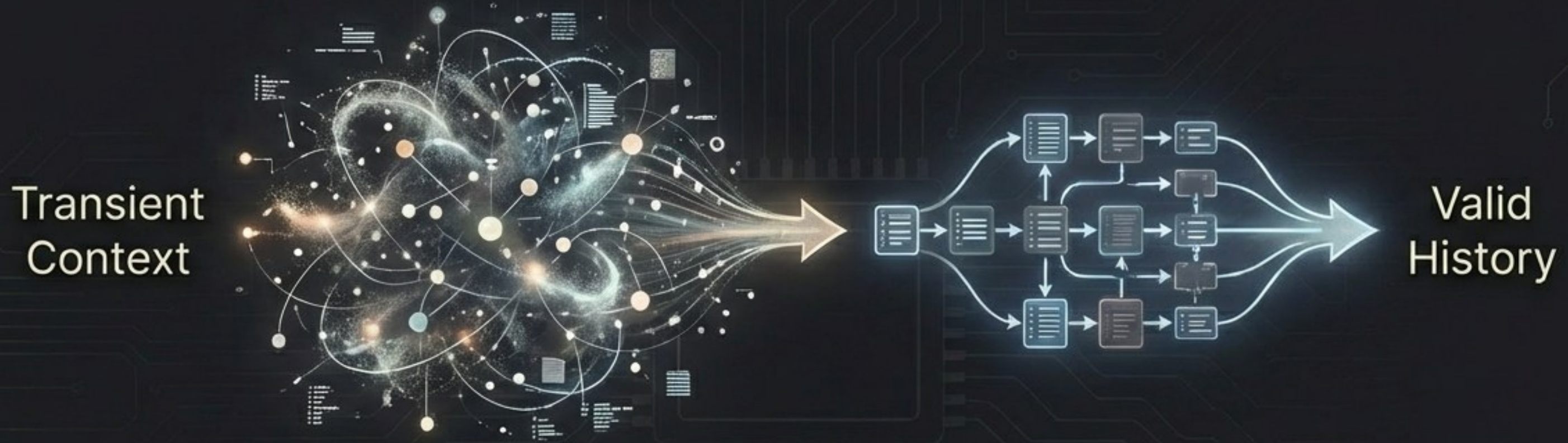
# OSS Readiness: Getting Started

```
$ pip install fava-trails
Successfully installed fava-trails-0.4.0
$ fava-trails bootstrap
Created config.yaml
Created trust-gate-prompt.md
Initialized Monorepo at ./
```

- ✓ Apache 2.0 License
- ✓ CI/CD via GitHub Actions
- ✓ Public Repository



# The System of Record for AI Agents



Federated. Versioned. Curated.

★ Star the repo. Build the memory. 🗣️

Contextual flattening is a failure mode. Preserving the chain of thought is the solution.