VIBE CODING

Fully give in to the vibes, embrace exponentials, and forget that the code even exists.

THE MAD SCIENTIST'S GUIDE TO INTENT-DRIVEN DEVELOPMENT

SYNTAX MANUALS

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See things, say things, run things! The era of writing syntax is over. Welcome to the era of intent!

The Paradigm Split: Who is Driving?

Developers in Control.

AI is a productivity multiplier, not a replacement. (e.g., Copilot, CodeWhisperer).

Intent-Driven

Human guides via conversation, AI generates the app. Focus on speed and outcomes. (e.g., Cursor, Windsurf)

Autonomous Execution

Agents plan, execute, test, and modify across repositories. Humans supervise. (e.g., Devin, SWE-Agent)

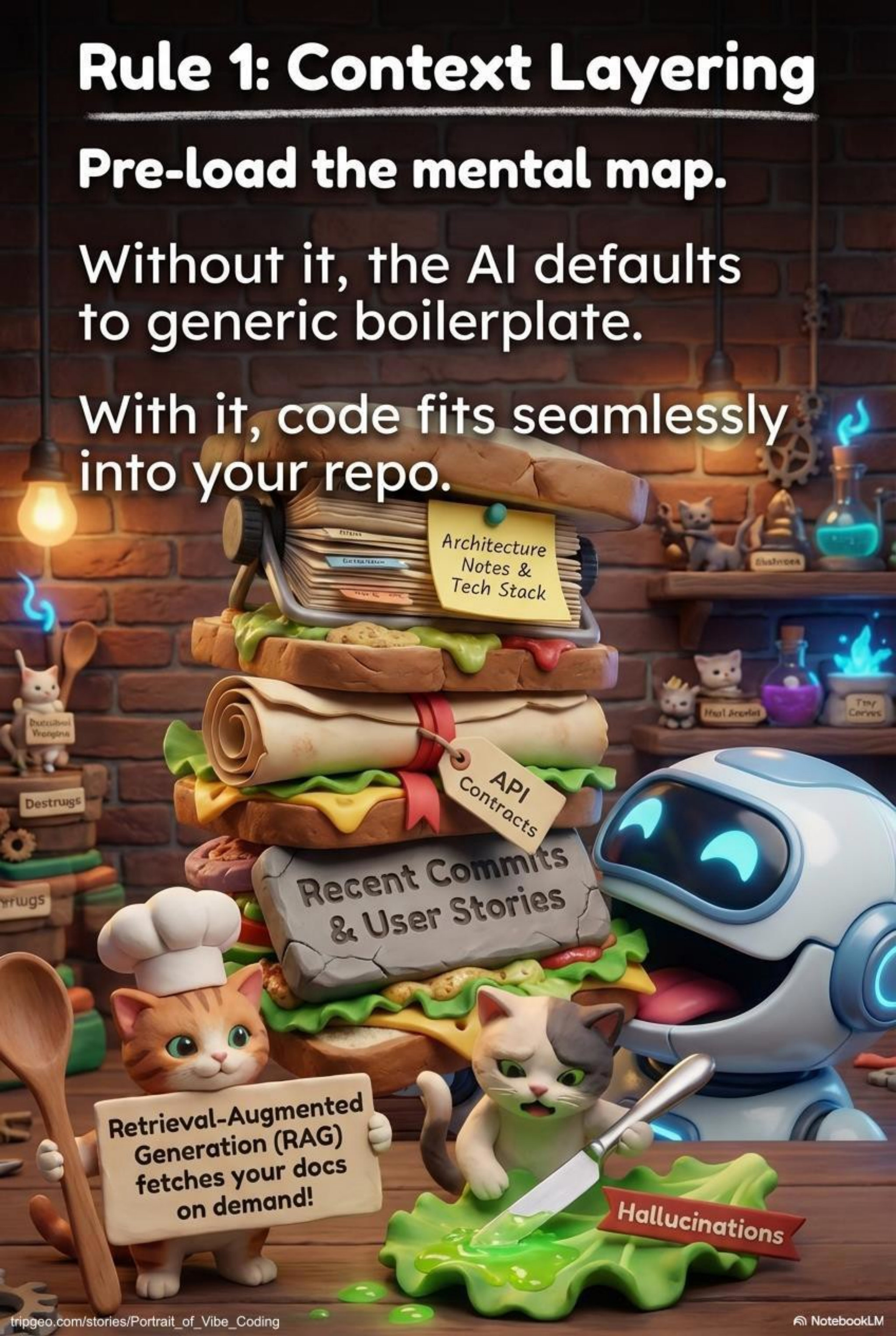
Vague Ideas
Prompt
Generate
Configurations Steering
Pog Dopefect
TEST
Refine
Dr. Felinee's Office
Working Features
tripgeo.com/stories/Portrait_of_Vibe_Coding
NotebookLM

Rule 1: Context Layering

Pre-load the mental map.

Without it, the AI defaults to generic boilerplate.

With it, code fits seamlessly into your repo.



The Context Window Fishtank.

AI memory is finite. If the chat gets too big, it "forgets" the earlier patterns and design rules.

Keep context over 50-60% for best performance. When the chat gets too long, /compact the context, or start a new chat window with a brief summary of the locked-in decisions.

Code and Chat History

Multi-paragraph requests = Brittle Spaghetti. Code.

Stepwise Prompting:
Divide work into bite-sized turns with tight feedback loops.

Chain-of-Thought:
Ask the AI to explain its reasoning step-by-step BEFORE providing the final solution. Front-load the review to cat

Constraint Anchoring:

Embedding hard rules (like configs, linters) directly into the prompt environment to prevent the AI from generating code that needs immediate cleanup. Think of it as guardrails for the creative process, not just suggestions.

Quicksand:

Caveat:

Act as a Senior Angular Developer.

Priorities: Architecture first, defensive coding next.

Max Length Rules

ESLint Config

Allowed Libraries Only

Max Length Rules

Caveat:

Max Length Rules

ESLint Config

Allowed Libraries Only

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.cursorrules

Caveat:

TODO: Calibrate AI's understanding of 'senior'.

- Check for over-engineering.
- Ensure adherence to style guide.
- Validate component structure.

The Error-Forward Bug Zapper

Don't panic at build breaks.

Feed compiler errors and linting messages directly to the AI. Leverage its pattern recognition for instant, one-line fixes.

Caveat:

Combined with rapid copy-paste-test cycles, build breaks rarely survive more than a minute.

The Ultimate Playground: Why 3D?

Three.js = 2.7 Million weekly downloads!

Vibe-Eyes:
Use computer vision to feed screenshots of visual glitches (Z-fighting, inverted normals) back to the AI.

Vibe coding thrives on immediate visual feedback. If the code is wrong, the vibe is wrong. No backend logic to untangle—just instant visual confirmation.

The Engine Upgrade: Expect 2-10x Performance Gains.

WebGL.

High CPU overhead.

Implicit state management.

Single bindings.

GLSL string shaders.

WebGPU.

Low CPU overhead.

Explicit memory control.

Native Compute Shaders.

TSL (Three Shader Language).

Automatic WebGL 2 Fallback built-in!

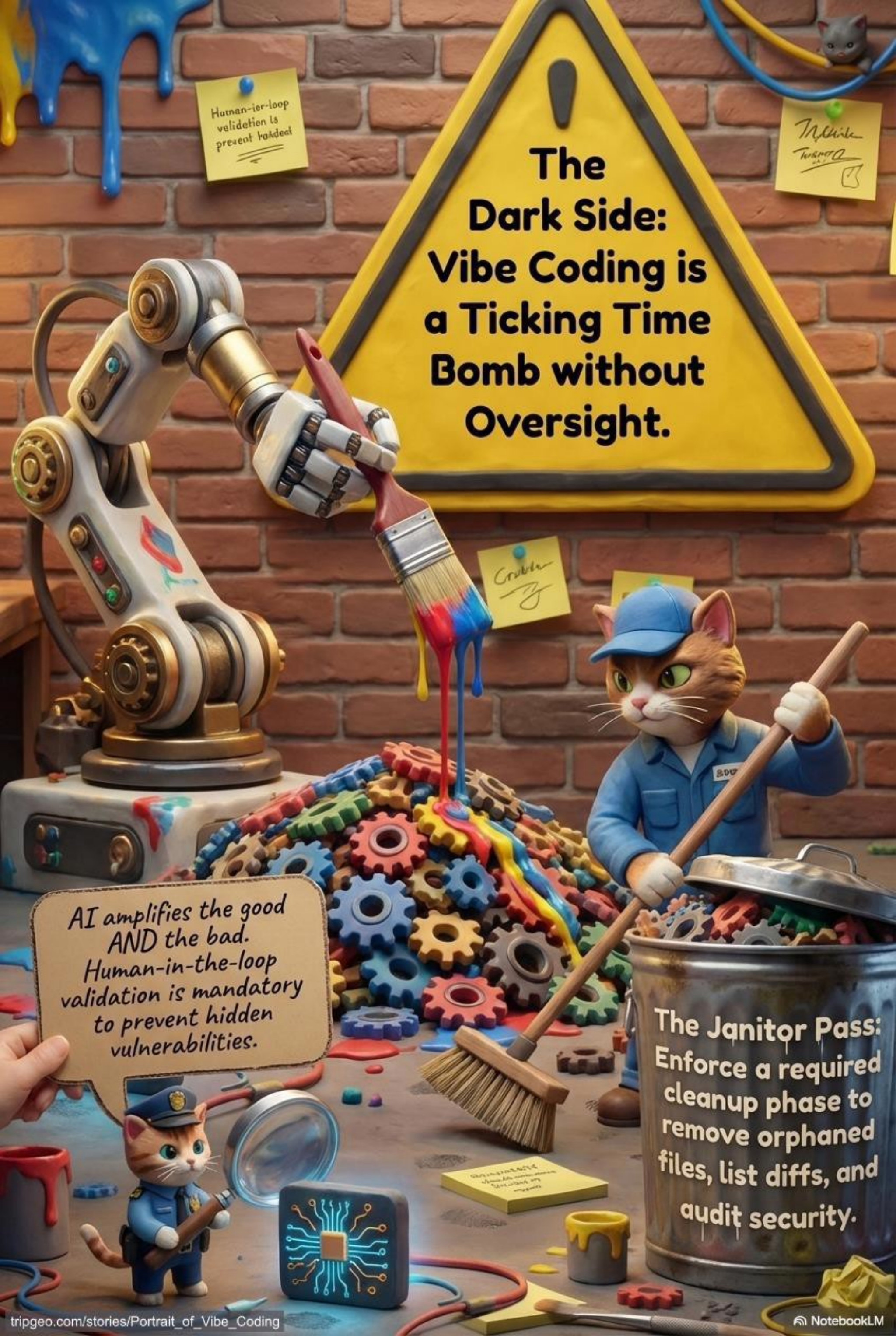
WebGPURenderer (r171 zero-config)

CPU particle updates hit a wall at 50,000. WebGPU compute shaders push this to MILLIONS. Let the GPU handle the math.

Compute Shaders: Bypassing the CPU

TSL (Three Shader Language)

Write once in JS, run on WebGPU or WebGL. AI loves TSL method chaining!


Human-in-the-loop validation is present tasdeat
The Dark Side: Vibe Coding is a Ticking Time Bomb without Oversight.
AI amplifies the good AND the bad. Human-in-the-loop validation is mandatory to prevent hidden vulnerabilities.
The Janitor Pass: Enforce a required cleanup phase to remove orphaned files, list diffs, and audit security.
tripgeo.com/stories/Portrait_of_Vibe_Coding
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Agent Teaming: Speed + Control.

Teaming: Speed + Control.

WORKFLOW.md

1. Define Work Order (Objective, Budget).
2. Agent builds in Quarantine.
3. Director approves promotion to main codebase.

Quarantine Folder

Caveat

Vibe code new features in the morning
→ Let an agent add docs/tests overnight
→ Review and merge.

The Proof is in the Prototype.

From throwaway weekend jams to enterprise-grade production.

Fly: A 3D multiplayer flight simulator vibe-coded in 30 minutes. Generates $87k/mo.

Segments.ai: Migrated from WebGL to WebGPU resulting in a 100x performance improvement for LIDAR mapping.

Hokusai Installation: A 1-million-particle interactive fluid simulation running at Expo 2025 Osaka.

EXECUTION LEVERAGE VS. INTELLECTUAL LEVERAGE

You are no longer a syntax manoger. You are a Creative Director. Now, what will you orchestrate?

The web is spatial. The tools are ready. Give in to the vibes.

Traditional coding automated repetitive tasks. Vibe coding automates the execution of thought.