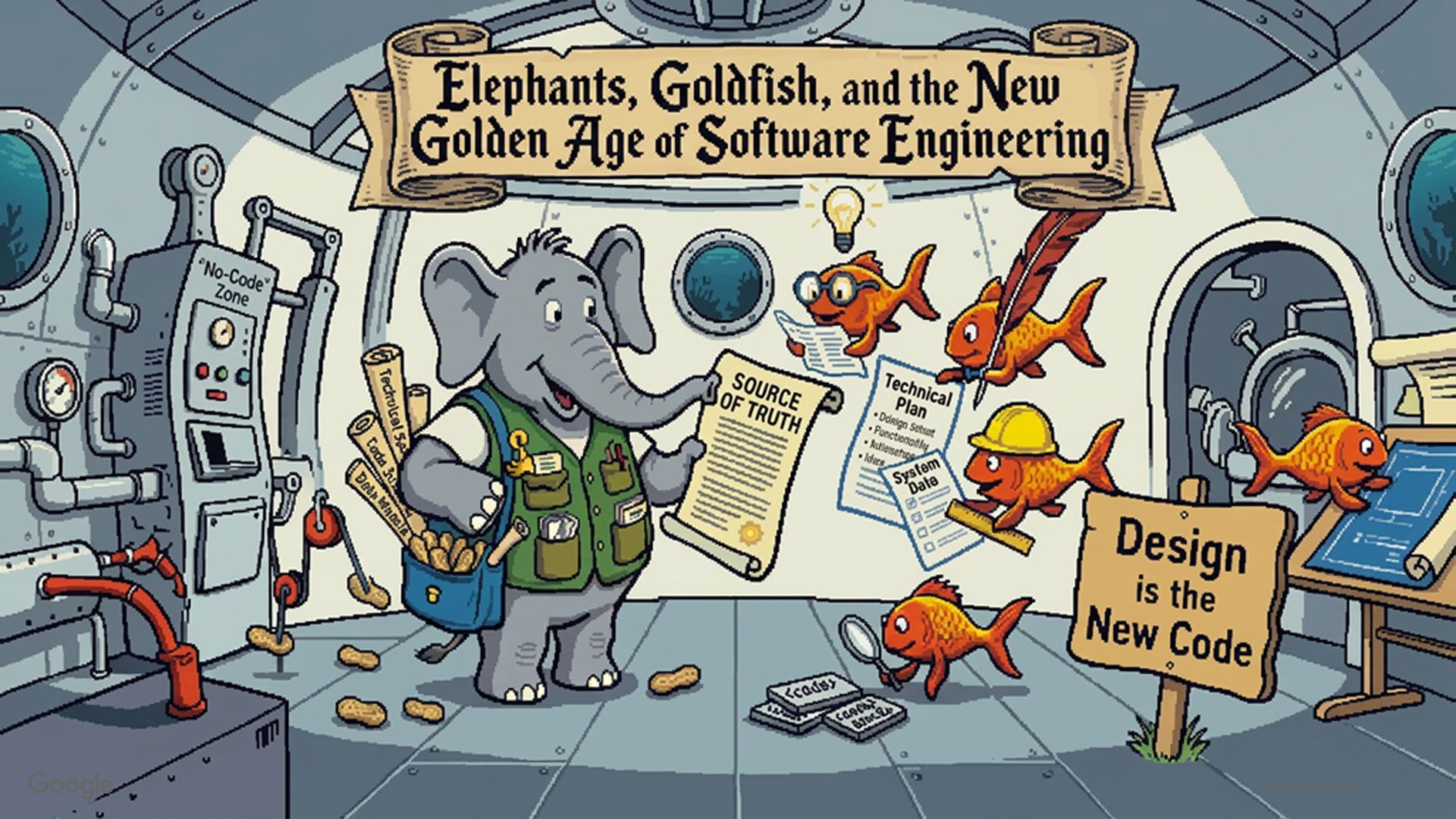


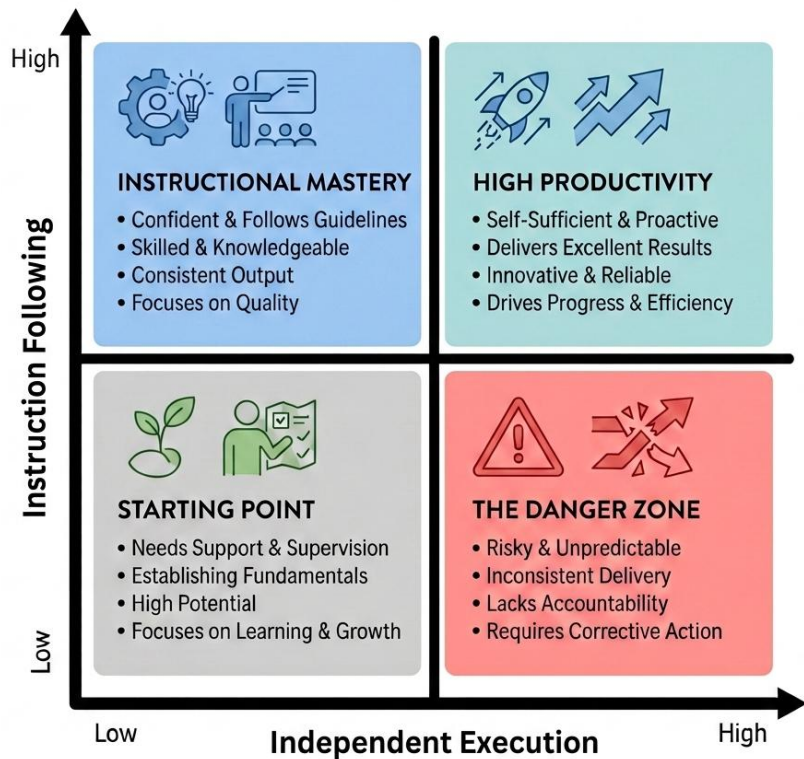
Elephants, Goldfish, and the New Golden Age of Software Engineering





These **are tools**, not toys.





AI Fluency Matrix

Balancing Instruction Reliability with Independence & Look-Away Time

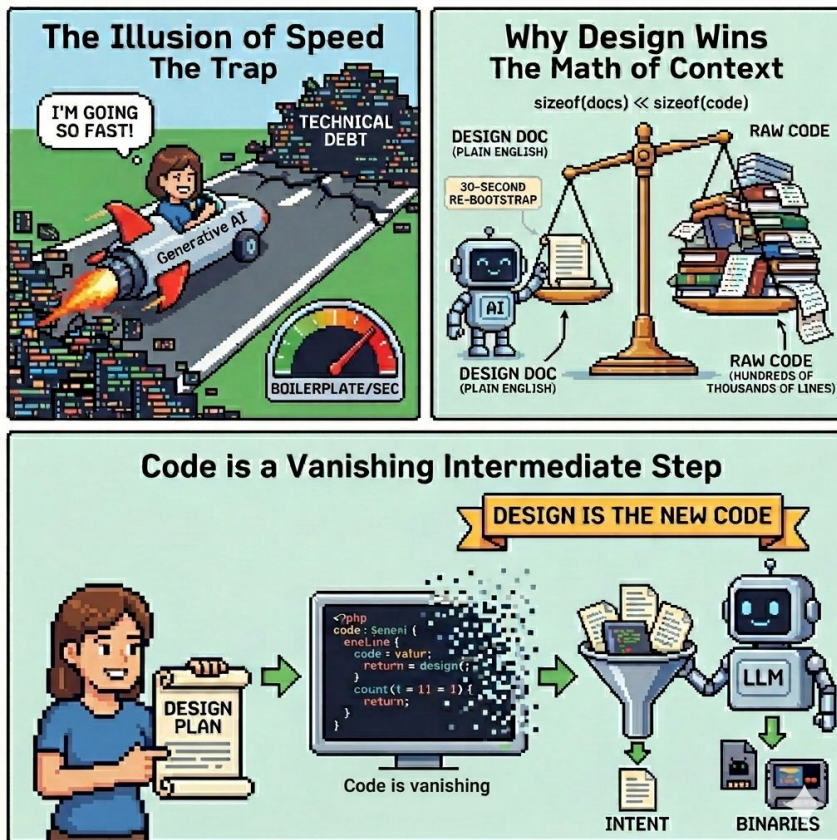
- **Instruction Reliability** measures how consistently the AI correctly interprets and executes commands.
- **Independence** represents the agent's ability to run unsupervised for extended, multi-turn cycles.
- **The Objective** is to systematically migrate tasks toward high-reliability, hands-off automation.





Judgement
belongs
to the humans,
so don't be lazy.





The design
is the code.
All the rest
is just typing.



AI Coding workflow

 Dev

Phase 1 : Context & Definition
(🕒 ~30 min)

1. Read context (Source/Docs)
2. Describe feature
3. Prompt for Q&A

 **LOOP: Refine until clear**

- Ask clarifying questions
4. Refine requirements
5. Write full description

Phase 2 : Strategy & Alignment
(🕒 ~ 30 min)

6. Request technical strategy
7. Confirm understanding
8. Request implementation plan

 **LOOP: Convergence**

9. Critique & Discuss
10. Repeat until converged

Phase 3 : Execution

11. Create FEATURE.md (Problem+Basic Tech)
- Drafts content
12. Refine content
13. Add detailed plan (Enum Files)

 **LOOP: Final Review**

- Detailed plan & file list
14. Read, React, Refine
15. Create CL & Review

 Gemini

 Repo

📁 Test understanding here.
If gaps, read more files.





No More “ICs”
(we are all
managers
now)





The Control Loop Bandwidth Crisis

- Generative AI accelerates individual execution velocity by up to 5x to 10x.
- Traditional human control loops remain bottlenecked by cognitive speed.
- This velocity mismatch leaves organizations unable to detect or correct critical errors.
- Governance breaks down when execution outruns human verification.





Jevons' Paradox: Undeclared Since 1865

(so stop worrying
and start working)



