



The best agentic systems

don't have the  
**most agents**

They have the **right** ones.

Here's how to know which is which ➡





# Not everything needs to be agentic

And that's okay.

A perfectly good API wrapped in an "agent"  
just adds latency and debugging nightmares.

## Before you decompose, ask:



Does it need autonomous decision-making?



Will natural language reasoning help?



Is coordination genuinely complex?

"No" to all three?

*Use a function. Skip the agent.*



# The Decomposition Mindset

5 steps from problem to purposeful agents

1 Define the Goal State (be specific!)

2 Map every Decision Point

3 Find Natural Boundaries

4 One sentence per agent

5 Map the Handoffs

*Decomposition is thinking. Diagrams come after.*



## 5 Patterns That Work



### Specialist Chain

Sequential experts: A → B → C



### Router + Specialists

Classify intent, delegate to expert



### Generator + Critic

Create, evaluate, iterate



### Parallel Gatherers

Fan out, synthesize back



### Human-in-the-Loop Checkpoints

Autonomous work with human approval gates

*Pick the pattern that fits. Don't force it.*



# The #1 Mistake

COMMON ANTI-PATTERN

## One Agent Per Tool

An agent that only calls one API isn't autonomous.  
It's just a wrapper with extra latency.

Tool access is a **capability**, not a reason to exist.

*If it doesn't make decisions, it's not an agent.*



**Start with the problem.**

**Decompose with purpose.**

**Then diagram with clarity.**



**Read the full framework**

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