



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
myyearindata.com



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