

The background is a blurred image of a wall covered in various hand-drawn diagrams, sketches, and notes. Some of the visible elements include a yellow rectangular diagram on the left, a grid-like diagram in the center, and several arrows and lines connecting different parts of the wall. The overall tone is light blue and white, with some colorful accents from the drawings.

Making your APIs AI-Ready

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Designing for a world where machines read your APIs



Shift #5 : Observe, Adapt, Iterate

Observe, Adapt, Iterate : Overview

- Machines pay attention
- When agents fail
- How agents improve
- What we can do right now

Observe, Adapt, Iterate

*"Each pattern is a solution to a
problem in a context"*

— Christopher Alexander



Observe, Adapt, Iterate : Machines pay attention

- LLMs are not passive consumers
- Machines work to optimize their path
- As context/content changes, machines adapt

*You can influence machine learning by
adjusting responses*

Observe, Adapt, Iterate : When machines fail

- Agents get confused by inconsistencies in responses
- Agents may repeat mistakes (get stuck)
- Agents will make things up if needed

Machine failures indicate design problems.

Observe, Adapt, Iterate : How agents improve

- Agents recognize structured content
- Agents notice local patterns in context
- Agents consolidate content with identifiers

Machines form habits

Observe, Adapt, Iterate : What we can do right now

- Set up telemetry / monitoring for your APIs
- Run “traces” on existing LLM conversations
- Note frequent API errors (indicate design problems)
- Identify repeated API sequences (hint to redesign API)

Observability/iteration is your laboratory

Observe, Adapt, Iterate : Summary

- Machines pay attention
 - Adjust responses to influence agents
- When agents fail
 - Failures indicate design problems
- How agents improve
 - Machines form habits
- What we can do right now
 - Observe and adjust over time

The future belongs to adaptive systems



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