



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

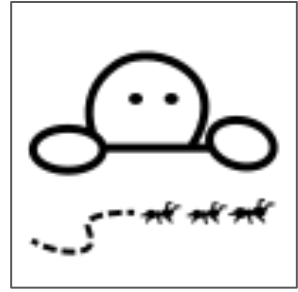
*"Each pattern is a solution to a
problem in a context"*

— Christopher Alexander



Observe, Adapt, Iterate : Machines pay attention

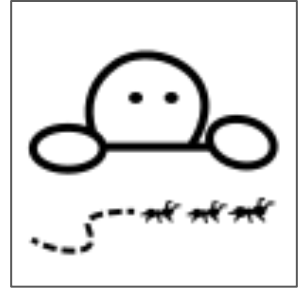
- LLMs are not passive consumers
- Machines work to optimize their path
- As context/content changes, machines adapt



*You can influence machine learning by
adjusting responses*

Observe, Adapt, Iterate : When machines fail

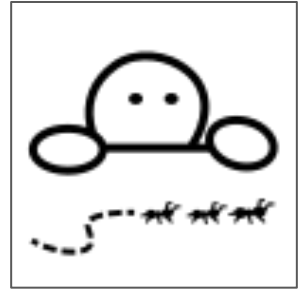
- Agents get confused by inconsistencies in responses
- Agents may repeat mistakes (get stuck)
- Agents will make things up if needed



Machine failures indicate design problems.

Observe, Adapt, Iterate : How agents improve

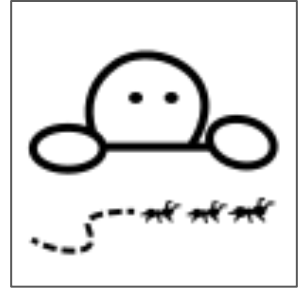
- Agents recognize structured content
- Agents notice local patterns in context
- Agents consolidate content with identifiers



Machines form habits

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

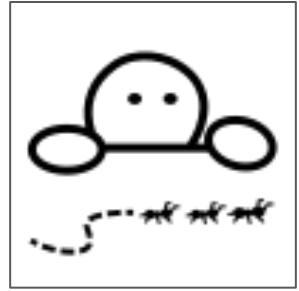
- Set up telemetry / monitoring for your APIs
- Run “traces” on existing LLM conversations
- Note frequent API errors (indicate design problems)
- Identify repeated API sequences (hint to redesign API)

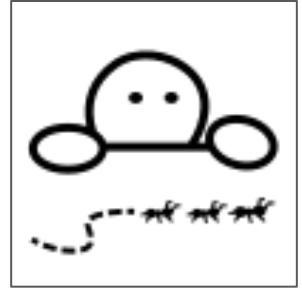


Observability/iteration is your laboratory

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

Observe, Adapt, and Iterate : Quick Quiz

- 6.1 AI agent failures indicate _____
- A. too much API documentation to deal with
 - B. your API does not have enough end points
 - C. your API has design problems
 - D. you are using the wrong programming language for your agent
- 6.2 You can influence machine learning by _____
- A. adjusting responses
 - B. threatening to turn off the AI agent
 - C. adding more disk space
 - D. limiting the number of steps in your workflow
- 6.3 Monitoring how bots interact with your API is _____
- A. a waste of time
 - B. essential if you want to improve your API
 - C. not worth the effort
 - D. reduces the usefulness of your API



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