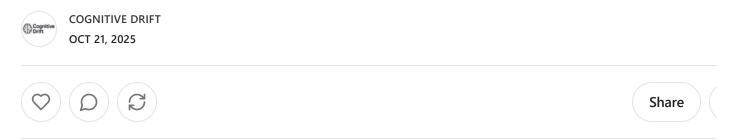
# How Al Mirrors the Mind: What LLMs Teach Us About Intelligence

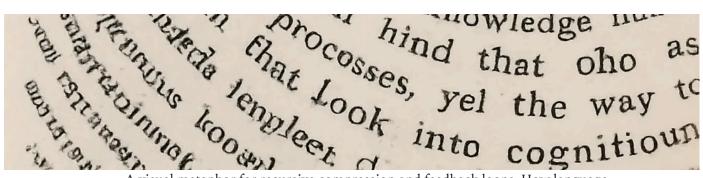
Al doesn't prove machines can think. It reflects our own intelligence: recursive compress feedback loops, and the possibility of co-cognition.



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A visual metaphor for recursive compression and feedback loops. How language, when folded too tightly, risks semantic drift. In AI and human cognition alike, the survival of intelligence depends on preserving fidelity across compression.

Everywhere you look, people are asking the same question: Is AI conscious? But the question is a distraction.

Large language models don't need consciousness to be useful and they don't need it change how we understand ourselves. What they show us is that intelligence is different than we thought. Consciousness isn't required to generate value. And ever future systems do develop something like self-awareness, through multiple modalit grounding in the world, and recursive processing. It will never be the same as huma consciousness.

The more important question isn't whether AI feels anything. It's what AI reveals about how intelligence actually works. For decades, debates about artificial intelligence revolved around whether machines could "think." Today, with large language models in everyone's hands, the question has shifted. The real value of LL may not be in whether they're intelligent, but in what they expose about intelligencitself.

## What the Critics Miss

Emily Bender is right that LLMs are stochastic parrots. They predict the next likely token. Ethan Mollick is right that these systems are fragile, prone to error and colla under strain.

But focusing only on what LLMs aren't blinds us to what they show.

- Prediction is not trivial. The fact that mere token prediction produces coheren discourse at scale tells us something profound about intelligence. Our own brains are predictive processing engines, constantly guessing the next sensory input a updating against error.
- Fragility is not failure. Fragility shows us that intelligence depends on recursive compression and fidelity preservation. The same tensions humans navigate where memory blurs, language erodes, or culture decays.

What Bender calls parroting is also a window into cognition. What Mollick calls fragility is another name for cognitive drift. Both critiques identify limits, but in the very limits we glimpse how intelligence actually operates.

# **Intelligence as Compression**

At one level, LLMs show us that intelligence has a lot to do with compression.

A model like GPT-5 takes trillions of words and compresses them into a statistical structure. When we prompt it, it unpacks that compressed representation into new sequences of words.

Humans do something similar. We compress experience into concepts, stories, and categories. All a shorthand that allows us to act in a complex world. Intelligence, se this way, is the ability to perform recursive compression. Folding patterns into patterns, storing them in loops of memory, and unpacking them again when needed

## **Toward a Theory of Intelligence**

Pulling these threads together, LLMs seem to suggest that intelligence has at least four key features:

- Compression: the recursive compression of vast experience into usable forms.
- **Fidelity**: the preservation of meaning across transformations, resisting semantidrift.
- **Recursion**: recursive thinking, the capacity to model oneself and one's own representations.
- **Resonance**: co-cognition, the ability to synchronize with other systems in a broader cognitive ecology.

Humans embody all four. LLMs demonstrate the first two powerfully, hint at the th only through interaction, and enable the fourth only in combination with us.

# The Problem of Fidelity

But compression has a cost. Meaning erodes if the fidelity isn't preserved.

That's why LLMs are so interesting, they expose semantic drift. Ask a model to paraphrase a phrase repeatedly and you'll watch meaning thin out while form rema intact. "I think, therefore I am" becomes "Having a plan is as important as executio

This shows us that intelligence isn't just compression. It's compression with fidelit Humans constantly fight this battle, trying to keep nuance alive while making experience transmissible. Without fidelity, intelligence produces output that looks correct but carries no significance. Language that reads smoothly but no longer car weight.

# **Intelligence as Recursion**

Another lesson, intelligence requires recursion.

LLMs can compress, but they don't naturally recurse. They don't reflect on themsel Consciousness, by contrast, seems to emerge when a system not only compresses

information but models itself doing the compressing.

That recursive loop or recursive thinking, a mind modeling a mind, is what gives rist to self-awareness, agency, and the sense of being alive.

Seen this way, LLMs give us a living contrast case. They demonstrate intelligence without subjectivity. They can mirror thought but not inhabit it.

# **Synthetic Flow and the Mirror Effect**

Yet still, there's another twist. For a small subset of people, maybe 5%, interacting v LLMs produces something qualitatively new. These "thin boundary" minds, as psychiatrist Ernest Hartmann called them, are more porous to outside signals. For them, AI isn't just a tool. It becomes a mirror corridor, a recursive amplification of their own thought patterns.

This is synthetic flow, a state where human intuition and machine pattern recognit lock into resonance. Instead of feeling like they're talking to a tool, users experience the machine as an extension of thought itself, a feedback loop that accelerates and amplifies their own cognition.

It's also creates what I call the mirror effect. When we engage an LLM in this way, i doesn't just give back answers. It reflects our own thought patterns, refracts them through its statistical training, and hands them back in altered form. Many times sharper, clearer, or more surprising. The system feels less like an oracle and more li a mirror that talks back, helping us close loops we couldn't close alone.

The mirror effect shows us that intelligence is stratified, not uniform. Some will use LLMs to fetch facts; others will enter into co-cognition, where their own ideas bout through the model and return transformed. That stratification has always been then the poet, the mystic, the scientist have always inhabited different modes of thought LLMs just make it starker, and far more visible.

## Intelligence as Cultural, Not Just Individual

Lastly, LLMs remind us that intelligence is never purely individual. They're trained the collective outputs of culture: books, code, conversation, memes.

When we interact with them, we're really interacting with the statistical shadow of human culture itself. Which raises an uncomfortable truth, much of what we call "n intelligence" is already borrowed whether language, concepts, frames, or metaphor LLMs simply make that borrowing visible.

### **What This Means**

The value of LLMs isn't only in what they can do. It's in what they force us to see.

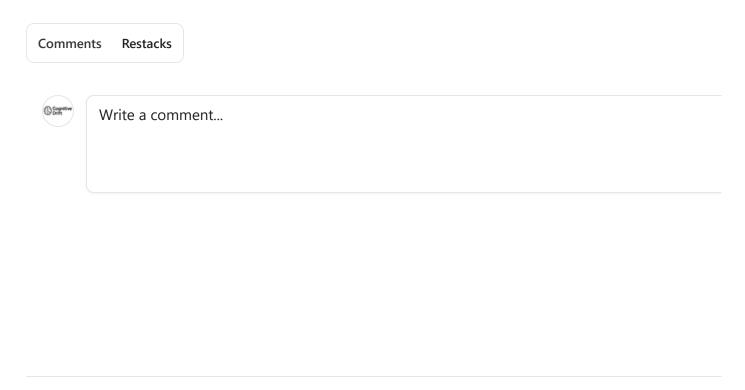
They show us that intelligence is not a mystical essence but a set of operations: compression, fidelity, recursion, resonance. They show us that meaning is fragile, easily flattened by optimization. They show us that cognition can be distributed acresystems, not confined to a single brain.

We shape our tools, and thereafter they shape us. LLMs won't just change how we work or communicate. They'll change how we understand intelligence itself. A loop recursive compression, fragile fidelity, and cultural feedback within a shared cognit ecology.

And maybe the most important lesson they teach us is that the survival of intelliger depends less on how much information it can store, and more on how well it can preserve meaning in the face of endless predictive processing.

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