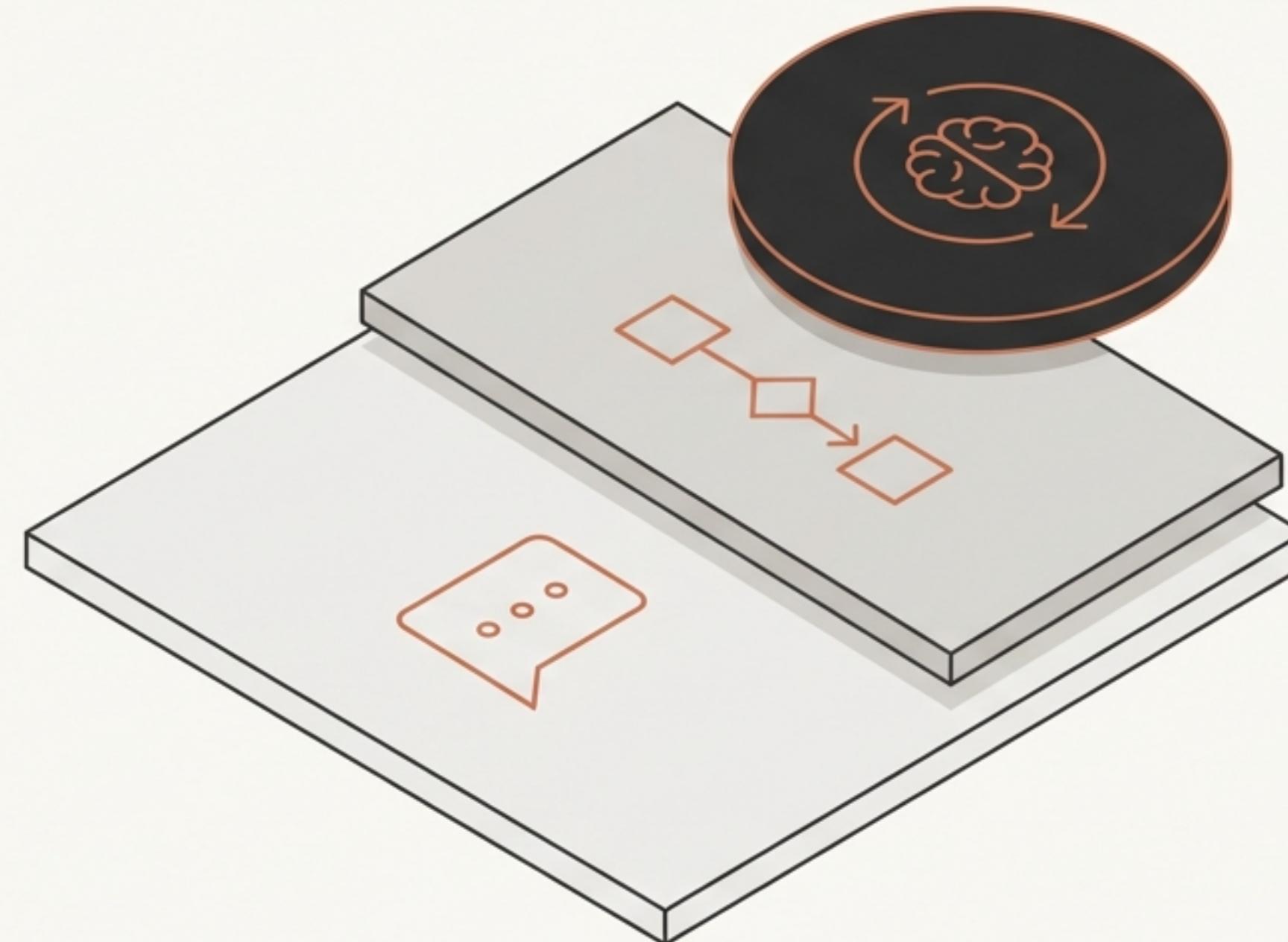


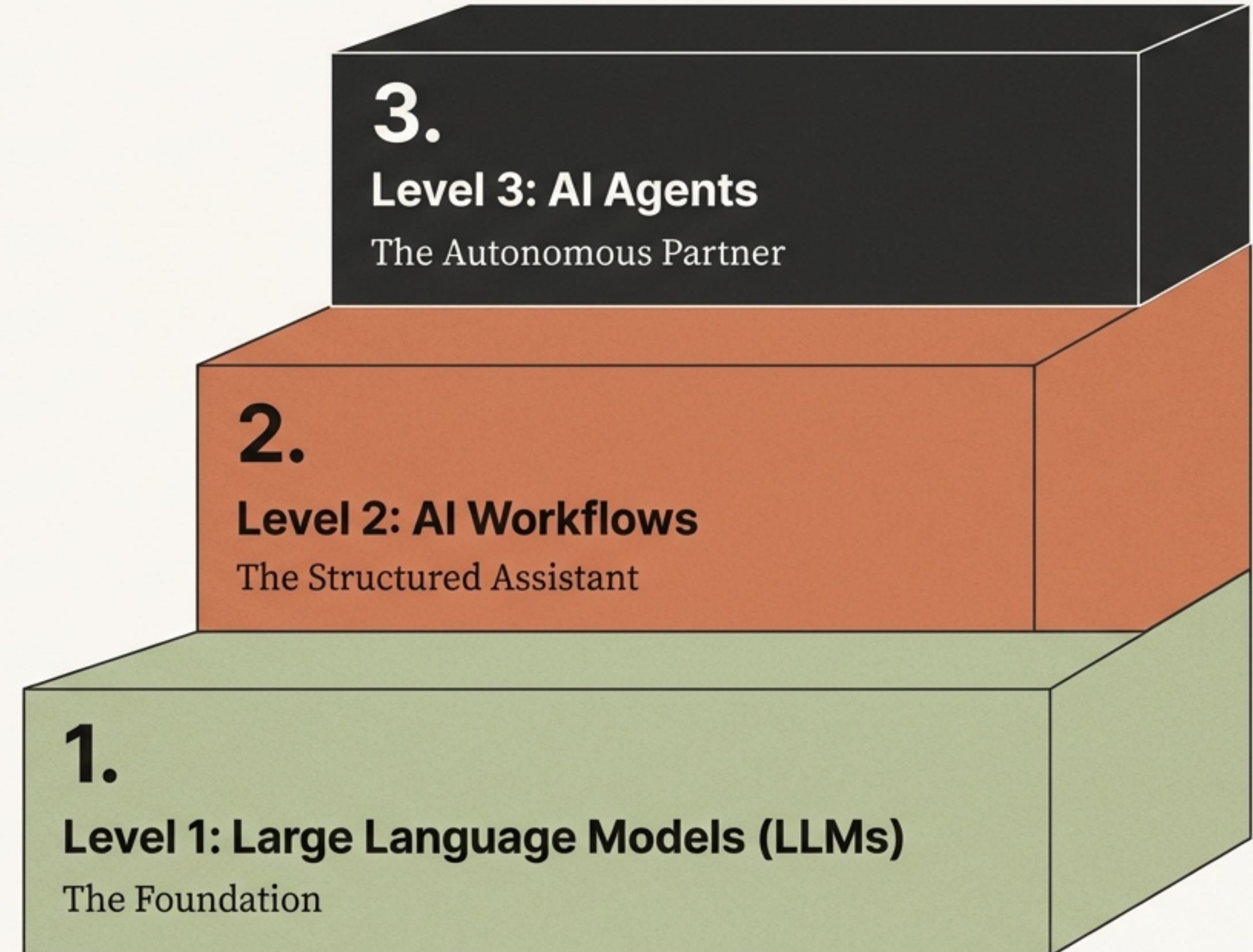
From Conversation to Autonomy

A Clear Guide to Understanding GenAI, AI Workflows, and AI Agents.



Our Simple One-Two-Three Learning Path

We'll explore the new landscape of AI by building on concepts you already use. We start with the familiar foundation and add new layers of capability, one step at a time.



Level 1: The Foundation We All Use – Large Language Models

LLMs are fantastic at generating and editing text based on their training data. Think of popular tools like ChatGPT, Google Gemini, and Claude.



Example: “Let’s ask ChatGPT to draft an email requesting a coffee chat.”

Input (My Prompt)

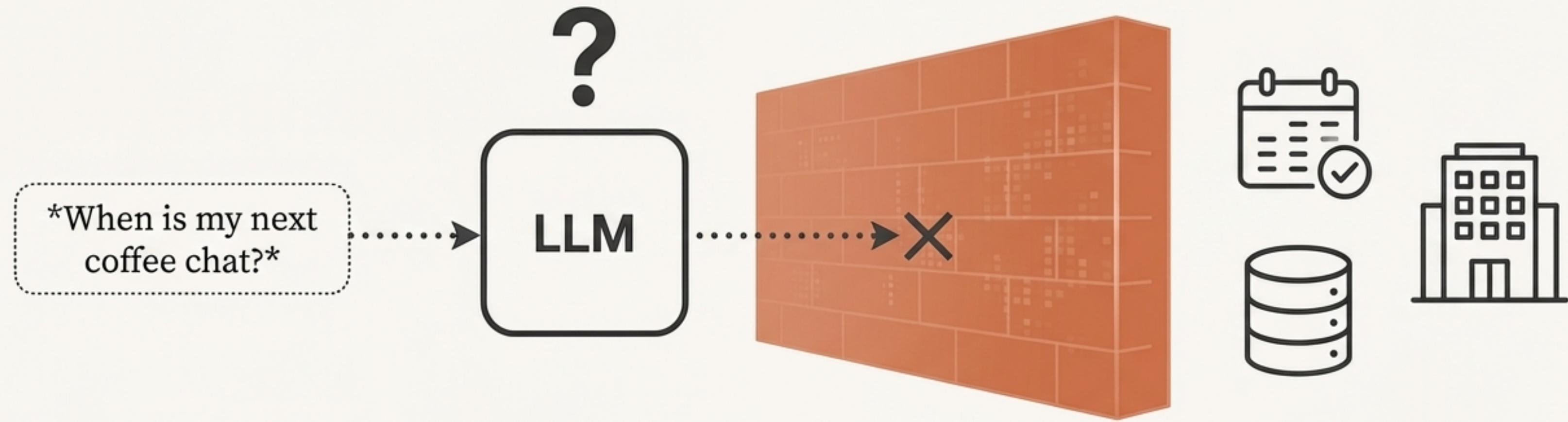
“Draft a polite email to request a coffee
chat.”

Output (The LLM’s Response)

A perfectly crafted, polite email.

The Two Key Limits of a Standalone LLM

But what happens when we ask about information outside its training data?



1. Limited Knowledge

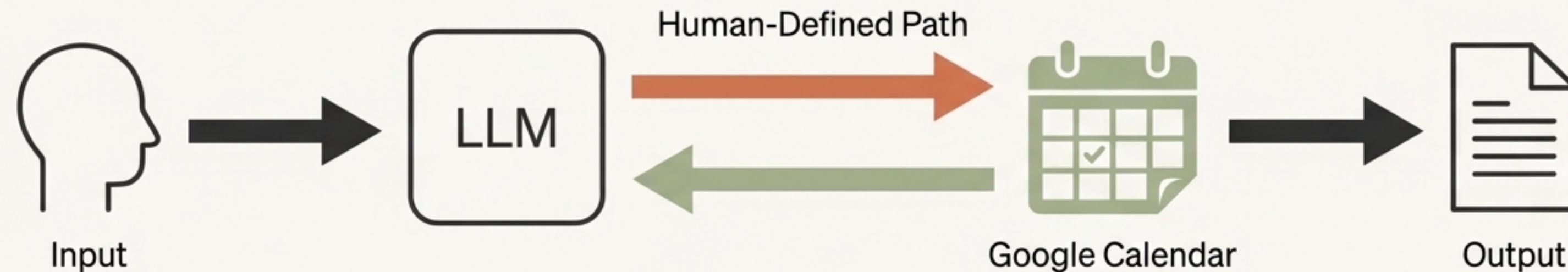
They lack access to proprietary information, like your personal data or internal company files.

2. Passive Nature

They wait for a prompt and then respond. They don't take initiative.

Level 2: Adding Structure with AI Workflows

What if we, the human, could tell the LLM *exactly* where to look for information? That's an **AI Workflow**. We define a fixed path for the LLM to follow.



Example Revisited

Human-Defined Logic

“Every time I ask about a personal event, perform a search query and fetch data from my Google Calendar before responding.”

New Prompt

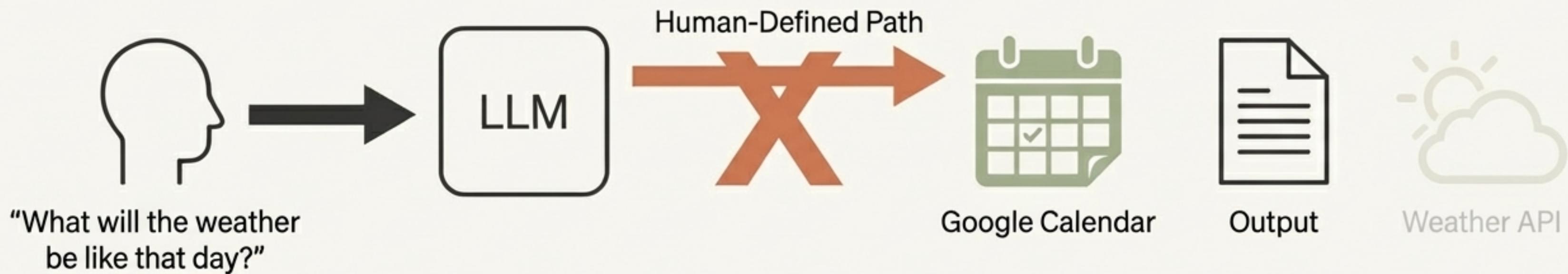
“When is my coffee chat with Elon Husky?”

New Result

The LLM now gives the correct answer because it followed the path to your calendar.

The Downside of a Predefined Path

AI Workflows are powerful, but they can only follow the exact steps laid out by a human. They can't improvise.



Key Trait

The human is the decision-maker who defines the “control logic.” The workflow cannot deviate from this path, no matter how many steps or tools are added.

A Real-World AI Workflow in Action

Example: Creating daily social media posts from news articles using make.com.



Step 1 (Input)

I compile news article links in a **Google Sheet**.



Step 2 (Process)

Perplexity AI is used to summarize those articles.



Step 3 (Process)

Claude uses my custom prompt to draft a LinkedIn post from the summary.



Step 4 (Schedule)

The entire workflow runs automatically every day at **8 AM**.



The Human Bottleneck

The Human Bottleneck

"If I don't like the final post (e.g., it's not funny enough), **I** have to go back and manually rewrite the prompt for Claude. The human performs the trial-and-error."



Pro Tip: Demystifying ‘RAG’

You’ll see the term Retrieval-Augmented Generation (RAG) everywhere. Don’t be intimidated.

In simple terms, RAG is a process that helps AI models **look things up before they answer**. Accessing a calendar, a weather service, or a company’s internal documents are all examples of RAG.

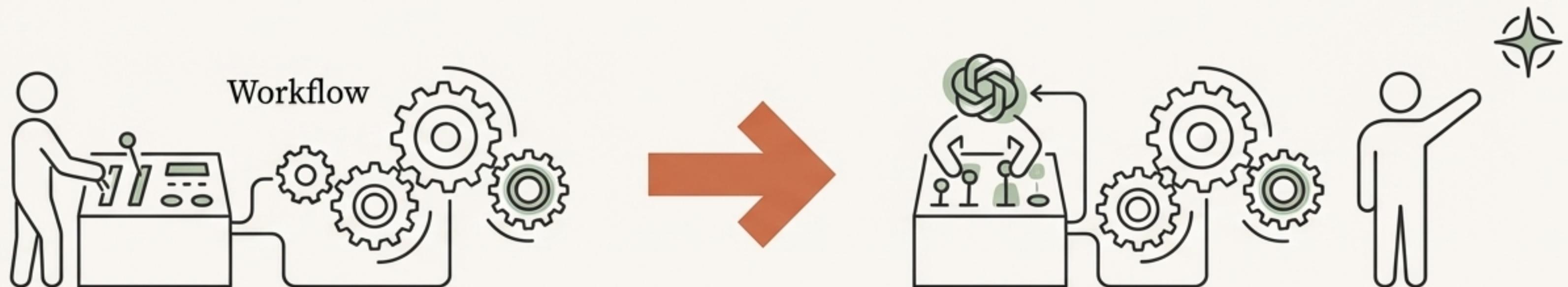


Essentially, RAG is a common type of AI Workflow.

The Leap to Level 3: AI Agents

So what is the one massive change that turns an AI Workflow into an AI Agent?

**“The human decision-maker
is replaced by an LLM.”**



How an AI Agent Thinks and Acts

Instead of following a script, an AI agent is given a goal.

It then uses two key skills to achieve it:



1. Reason (Think)

It strategizes the best approach.

Example thought process: “What’s the most efficient way to compile these articles? Copy-pasting is slow. Compiling links in a sheet and using a tool to fetch the data makes more sense.”



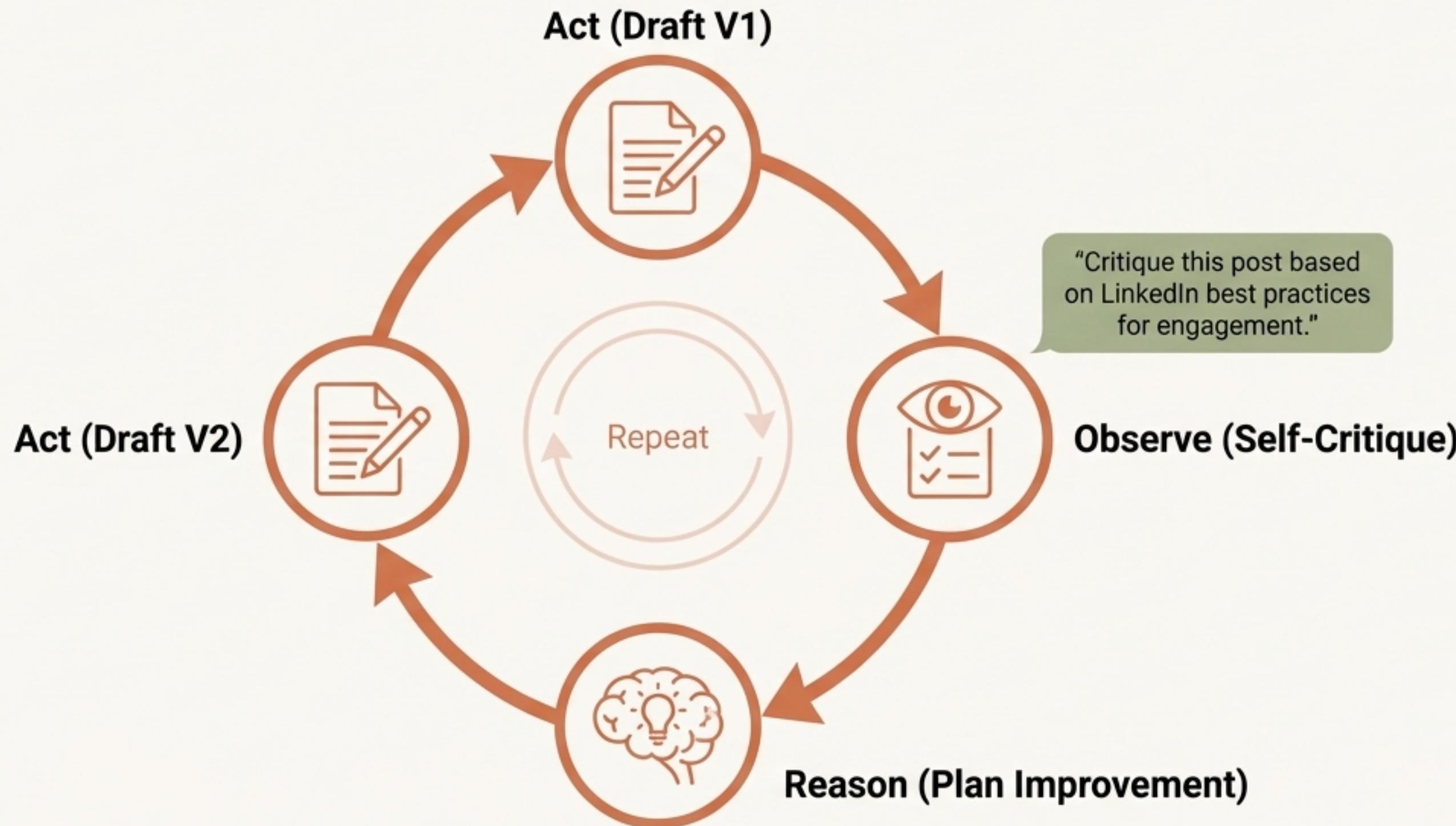
2. Act (Do)

It takes action by selecting and using tools.

Example action process: “Should I use Word or Excel? The user connected their Google account, so Google Sheets is the most efficient tool for this task.”

The Agent's Superpower: The Autonomous Loop

Remember having to manually rewrite the prompt to make a post funnier? An AI Agent can do that on its own. It can observe its own output, critique it, and iterate until it meets the goal.





Pro Tip: Understanding "ReAct"

The most common configuration for AI agents is called the **ReAct framework**. The name itself tells you everything you need to know.

Re + **Act**



Reason (think about the plan)

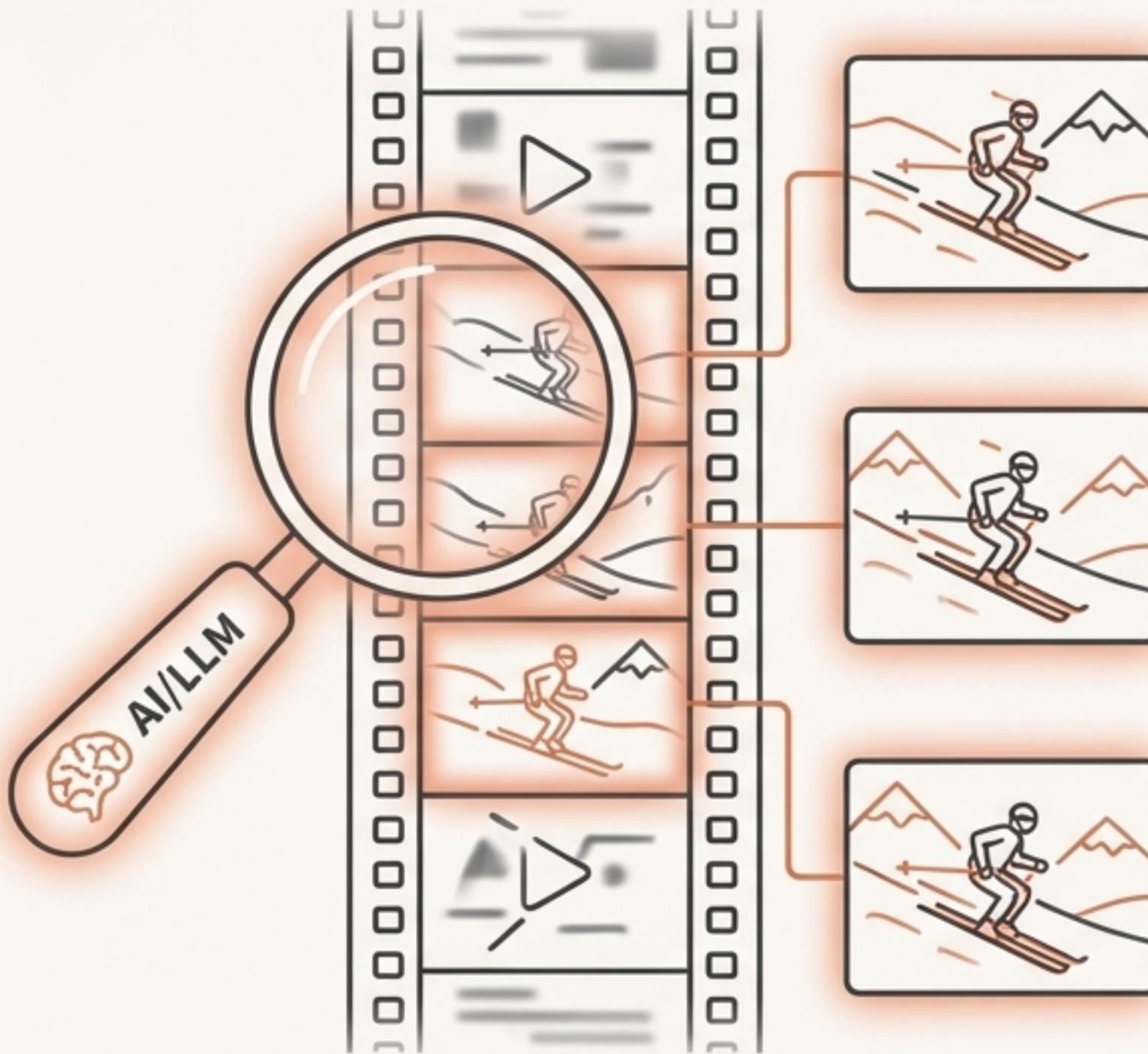


Act (use tools to execute the plan)

ReAct = Reason + Act. It's that simple.

An AI Agent in the Wild: Autonomous Video Search

Example: A stylized representation of an AI Vision Agent demo. The goal: find clips of a “skier.”



The Agent's Process (No Human Tags Needed):

- Reason:** The agent first determines what a “skier” looks like. (“A person on skis, moving fast in snow.”)
- Act:** It then acts by scanning clips in the video footage, trying to identify objects and actions that match its reasoning.
- Observe & Return:** It indexes the matching clips and returns them to the user.

The Point: A human didn't have to manually watch the video and add tags like “skier,” “snow,” or “mountain.” The agent figured it out on its own.

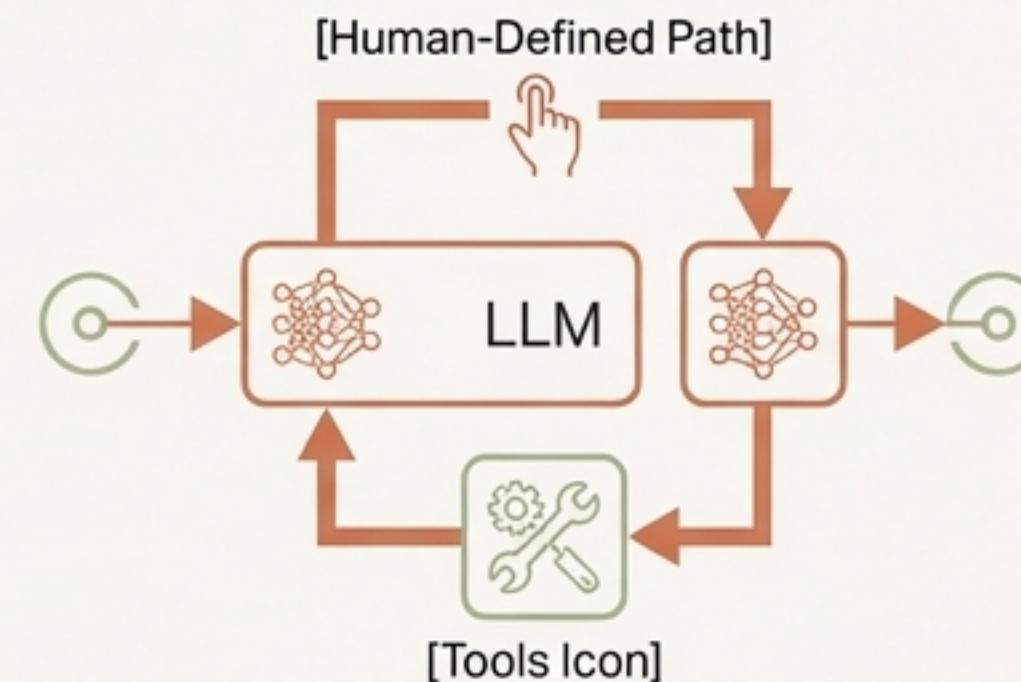
The Three Levels of AI Capability, Visualized

Level 1: LLM



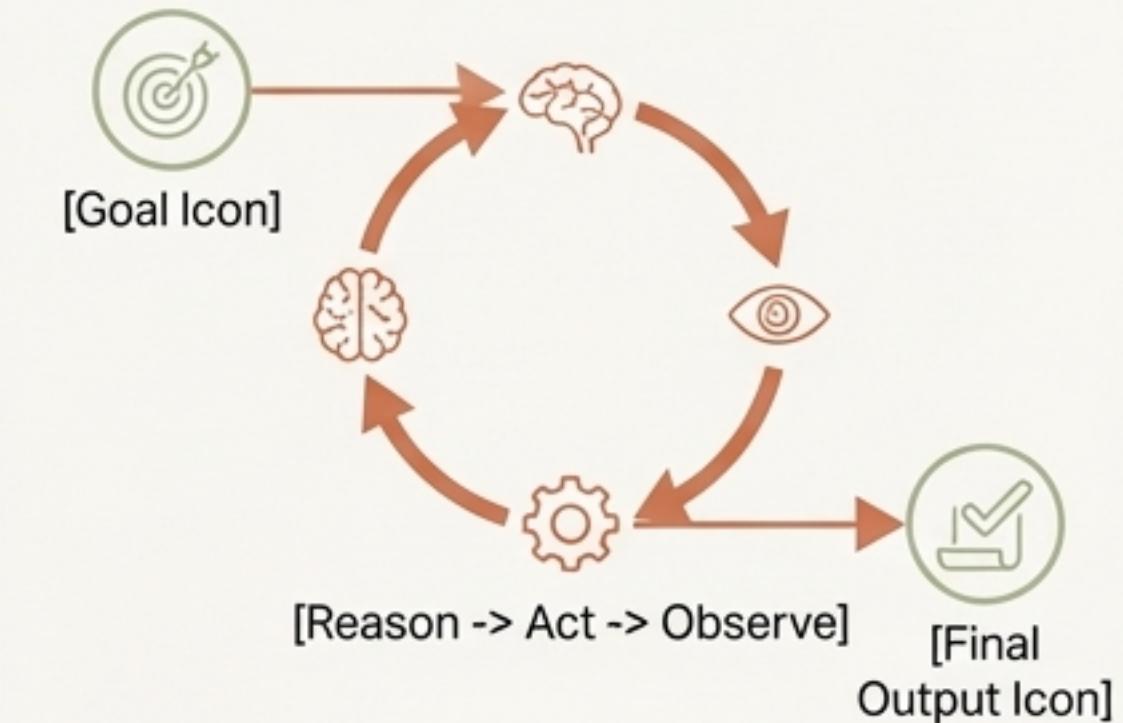
Responds based on training data.

Level 2: AI Workflow



The **human** is the decision-maker.

Level 3: AI Agent



The **LLM** is the decision-maker.

The Journey from Instruction-Taker to Autonomous Partner

Understanding these distinctions is about more than just technology. It's about recognizing a fundamental shift in how we interact with AI.



With **LLMs**, we have a conversationalist.

With **Workflows**, we have a structured assistant we must direct.

With **Agents**, we have an autonomous partner that collaborates with us to achieve a goal.

We are moving from giving AI precise instructions to simply defining our desired outcomes.