

 **Files, Web, Terminal, IDE, etc.**

Coding tool,
chat tool,
workflow
engine, etc.

Prompts,
Context

AI Tool

Text

Client

BFF

**API
LLM
Facade**

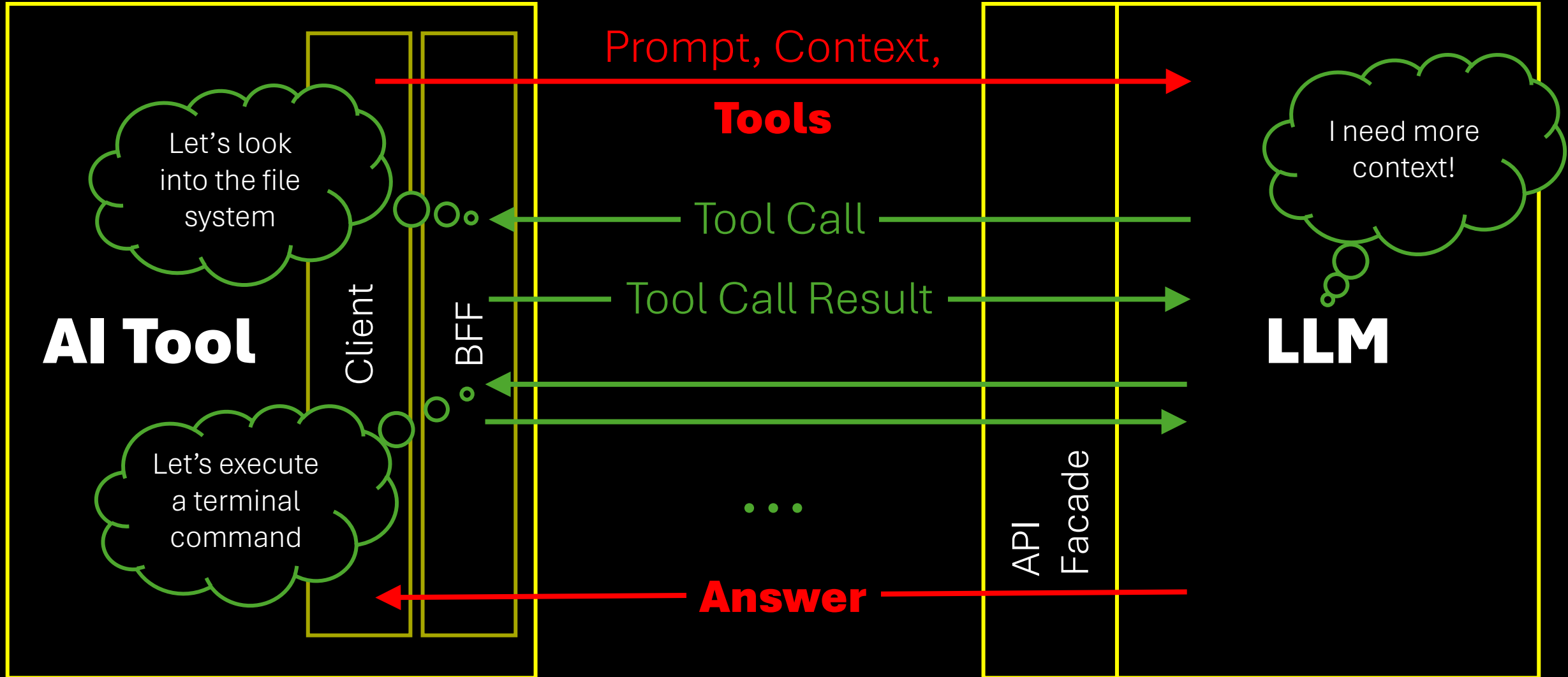
Text

Answer

😬 I don't
have enough
context



Enter: Tools



There are so many AI software products

For developers, for power users, for end users

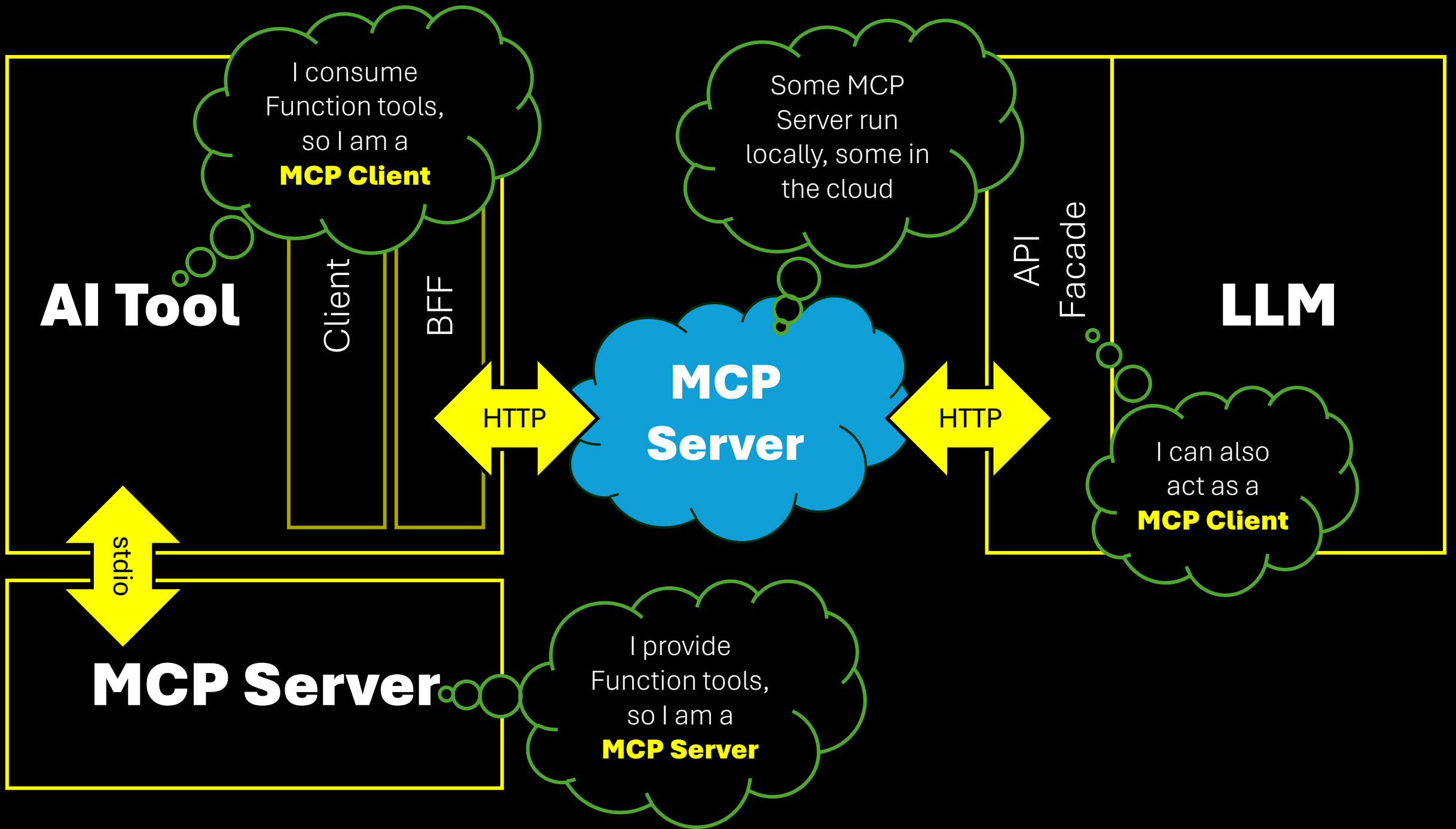
Many *Function Tools* would be useful for all of them

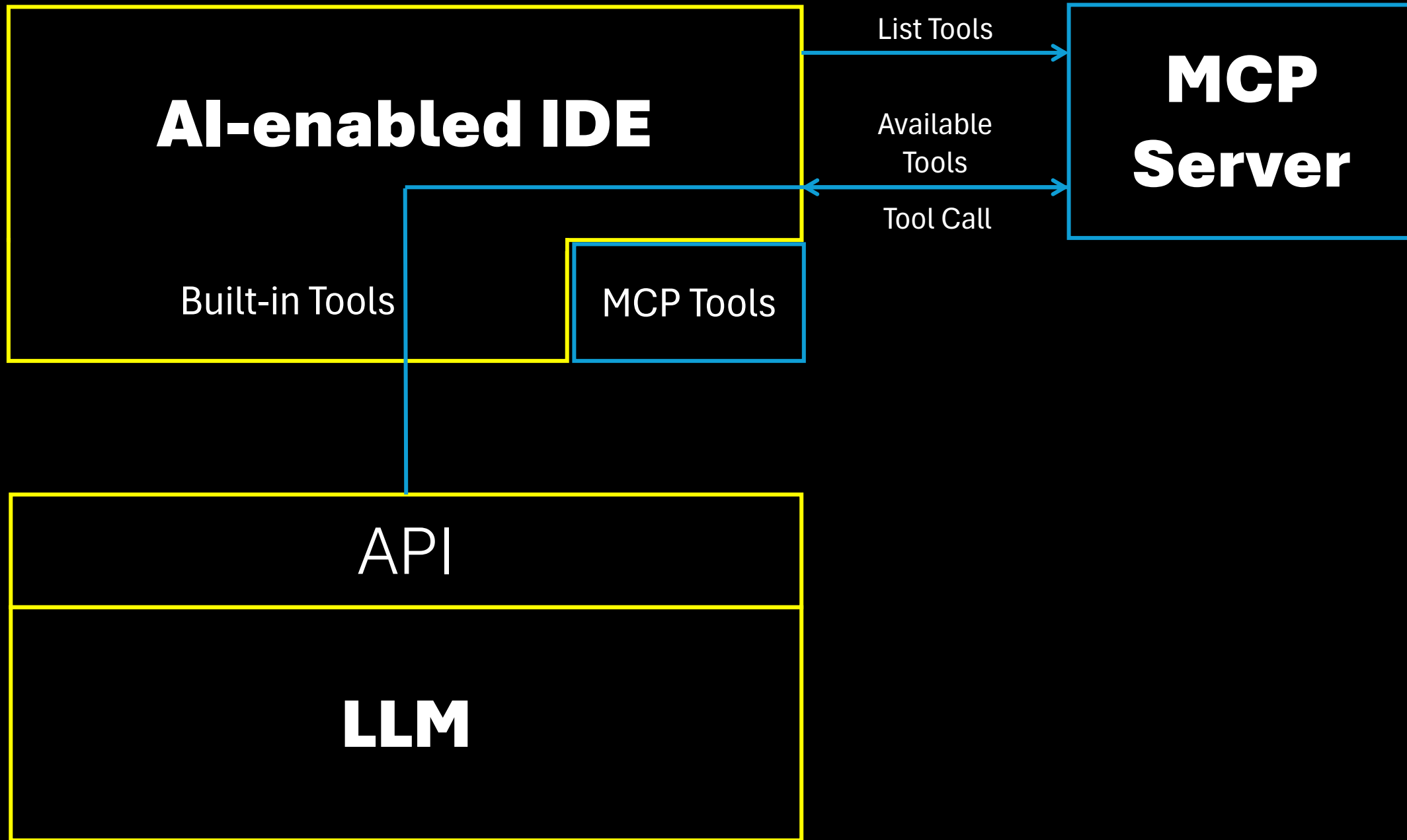
AI tool-specific SDKs would be frustrating

We need a standard!

Enter: **Model Context Protocol**

A standardized protocol to provide Function Tools to AI software





MCP is More Than Just Tools

Resources

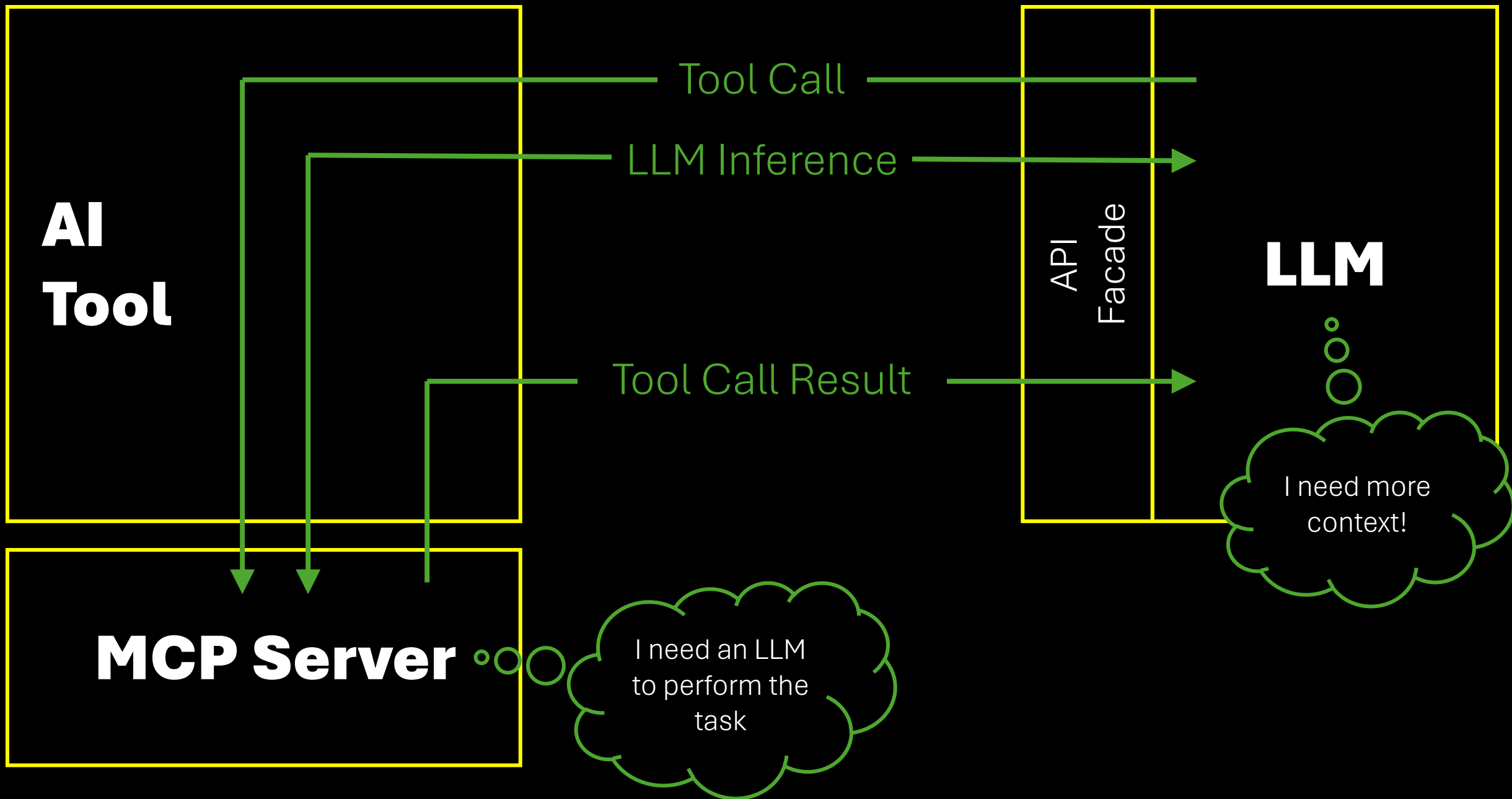
Retrieve resources like files, database content; like read operations in a REST API

Prompts

Structured prompt template for common tasks

Sampling

MCP can access LLM through the MCP Client



Any Problems?

Bleeding edge 🩸

Not a stable standard yet

SDKs are under heavy development

MCP Server must be trusted

We give them access tokens to act on our behalf 🔑

Some even run locally 🤖

Function Tool results are in the conversation history

Processed and potentially stored by LLM providers

Fill up the context window 💰

MCP registry URL (optional)

URL for a [specification-compliant](#) MCP registry. MCP servers listed in this registry will be visible to members. Note that the MCP registries are currently supported in VS Code only, with support for all Copilot IDEs coming soon.

Save

Restrict MCP access to registry servers

Control which MCP servers are allowed based on your registry configuration. Allowlisting is currently only supported on VS Code Insiders.

[View docs on MCP registry allow lists.](#)

Allow all ▾

<https://github.com/modelcontextprotocol/registry>

Sent to LLM

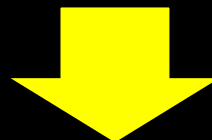
Question

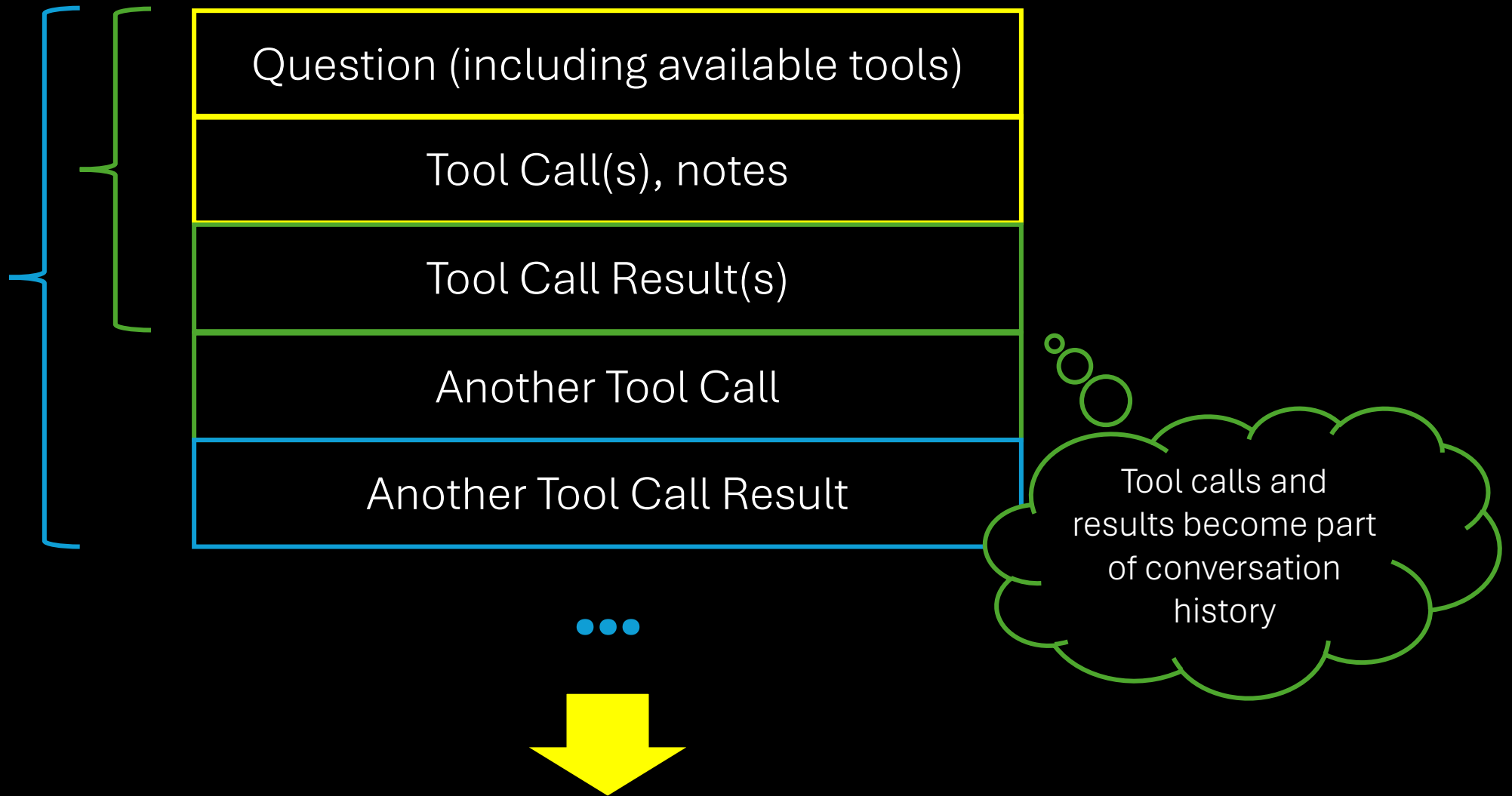
Answer

Follow up Question

Answer

Follow up Question





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Authentication is difficult

OAuth2 is required, DCR is recommended

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LLMs are amazing when it comes to *Tool Calling*

They combine independent tools to achieve a goal



Today: Primarily useful for devs and power users

Most leading MCP Servers deal with dev-related stuff



In the future? MCP Servers for everything?

No UIs anymore, no Web APIs?



Probably not for everything, but for many things

Custom UIs and APIs for special cases