

A Range of Agency Levels

Agency Level	Description	How that's called	Example Pattern
☆☆☆☆	LLM output has no impact on program flow	Simple processor	<code>process_llm_output(llm_response)</code>
★☆☆☆	LLM output determines basic control flow	Router	<code>if llm_decision(): path_a() else: path_b()</code>
★★☆☆	LLM output determines function execution	Tool call	<code>run_function(llm_chosen_tool, llm_chosen_args)</code>
★★★☆☆	LLM output controls iteration and program continuation	Multi-step Agent	<code>while llm_should_continue(): execute_next_step()</code>
★★★★★	One agentic workflow can start another agentic workflow	Multi-Agent	<code>if llm_trigger(): execute_agent()</code>

The Road Towards Increased Agency

Agency Level	Description	Date	Research Paper
Router	LLM output controls if/else switch.	29 Mar 2022	Language Models that Seek for Knowledge: Modular Search & Generation for Dialogue and Prompt Completion
Tool-calling	LLM output determines function call: <code>run_function(llm_chosen_tool, llm_chosen_args)</code>	1 Jun 2022	WebGPT: Browser-assisted question-answering with human feedback
Multi-step agent	LLM output determines if the execution loop continues: <code>while</code> <code>post_process(llm_output): ... #</code> <code>Perform an action</code>	10 Mar 2023	ReAct: Synergizing Reasoning and Acting in Language Models
Code agent	LLM can write and execute code, defining new tools if needed.	7 Jun 2024	Executable Code Actions Elicit Better LLM Agents

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