Introduction to Agents, Agentic Supervisors and Agentic RAG

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# Workflows and Agents

Distinction between workflows and agents

From [1]:

*Workflows are systems where LLMs and tools are orchestrated through predefined code paths.*

*Agents, on the other hand, are systems where LLMs dynamically direct their own processes and tool usage, maintaining control over how they accomplish tasks.*

A diagram of a workflow

AI-generated content may be incorrect. Figure 1: Visualizing the difference between Workflows and Agents

# Building a Research Agent

# Multi-agent supervisor

# References

[1] <https://www.anthropic.com/engineering/building-effective-agents>

[2] <https://langchain-ai.github.io/langgraph/tutorials/workflows/#agent>

[3] <https://langchain-ai.github.io/langgraph/tutorials/multi_agent/agent_supervisor/>

[4] <https://langchain-ai.github.io/langgraph/tutorials/rag/langgraph_agentic_rag/>

[5] <https://academy.langchain.com/courses/take/deep-research-with-langgraph/>

[6] <https://github.com/langchain-ai/deep_research_from_scratch>