

Topic 16: Agents

1. Building effective agents:
<https://www.anthropic.com/engineering/building-effective-agents>
2. Building Effective Agents Cookbook:
<https://github.com/anthropics/anthropic-cookbook/tree/main/patterns/agents>
3. ReAct: a framework where an LLM alternates between thought and action:
<https://arxiv.org/abs/2210.03629>
4. Lilian Weng blog: an overview of planning, memory, tool-use in LLM-based agents:
<https://lilianweng.github.io/posts/2023-06-23-agent/>
5. Reflexion: <https://arxiv.org/abs/2303.11366>
6. AutoGPT: LLM approaches that autonomously generate sub-tasks and execute them toward a high-level goal: <https://github.com/Significant-Gravitas/Auto-GPT>
7. BabyAGI: a simplified task-manager agent architecture where an LLM loops through tasks and creates new tasks from results: <https://github.com/yoheinakajima/babyagi>
8. HuggingGPT: a multi-agent model orchestration: <https://arxiv.org/abs/2303.17580>
9. OpenAI “Swarm” multi-agent orchestration library: <https://github.com/openai/swarm>
10. CrewAI: Multi-Agent Framework: <https://github.com/crewAIInc/crewAI>
11. Anthropic Multi-Agent Research:
<https://www.anthropic.com/engineering/multi-agent-research-system>
12. A2A Communication Protocol: a specification for agent-to-agent messages in cooperative multi-agent systems:
<https://developers.googleblog.com/en/a2a-a-new-era-of-agent-interoperability/>
13. Model Context Protocol (MCP) by Anthropic: a standard interface for agents to query external data/tools: <https://www.anthropic.com/news/model-context-protocol>
14. AgentBench: a benchmark suite for evaluating LLM-based agents across multiple environments: <https://github.com/THUDM/AgentBench>
15. Generative Agents with Memory: agents that accumulate long-term memory and interact in a simulated world:
<https://hai.stanford.edu/news/computational-agents-exhibit-believable-humanlike-behavior>
16. Toolformer: an agent that learns when to call external tools in order to improve answers:
<https://arxiv.org/abs/2302.04761>
17. LangChain Agents & Tools: <https://python.langchain.com/docs/tutorials/agents/>
18. Hugging Face AI Agents Course:
<https://huggingface.co/learn/agents-course/en/unit0/introduction>
19. A practical guide to building agents:
<https://cdn.openai.com/business-guides-and-resources/a-practical-guide-to-building-agents.pdf>
20. A survey of AI agents protocol: <https://arxiv.org/abs/2504.16736>
21. Agent leaderboard: <https://github.com/rungalileo/agent-leaderboard>
22. OpenAI Agent SDK: <https://openai.github.io/openai-agents-python/>