LangChain vs LangGraph: Pros, Cons, and Practical Considerations



LangChain	LangGraph
LLM exchastration framework based on chains and agents.	Al agent orchestration framework based on stateful graphs.
$Linear DAG workflows (sequence of steps with no cycles). Good for "prompt \rightarrow model \rightarrow cutput" flows.$	Graph-based workflows (nodes and edges allow keeps, branches, and dynamic transitions). Saited for complex flows.
Implicitipuse through data. Chains carry inputs forward, but fong-term state is limited by default	Explicit global state ("memory bank") that all agents access. State is persistently stered and updated at each step.
Best for simple to medium tasks: charbots, RAG pipelines, sequential reasoning.	Designed for complex, multi-step tasks and workflows that evolve over time (for example, multi-agent assistants).
Typically single-agent or linear chair; agents operate independently without inter-communication.	Multi-upont. Agents (nodes) can call each other using the graph, share memory, or be arranged hierarchically.
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Pros and Cons

Framework	Prox	Conx	
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Use Case	Use LangChain When	Use LangGraph When
Workflow Complexity	You have a clearly-defined, linear workflow.	You need complex workflows with branching logic or conditional steps.
Development Speed	You want to build something quickly—ideal for prototyping and MVPs.	You're building a production-grade system whose reliability, traceability, and dambility are essential.
Memory Requirements	Stateless or light memory needs (for example, current convensation only).	Long-term memory is needed across interactions or agonts (for example, remembering context across sessions).
Interaction Style	Simple LLM tool use (for example, retrieval, transformation, response).	Multi-turn or human-in-the-loop interactions requiring persistent state and coordination.
System Design	Linear pipelines such as document Q&A, summarization, or format convenion.	Multi-agent architectures, process automation, or workflows with ratries, dependencies, or approvals.
Team Collaboration	Individual developer exploring LLM capabilities quickly.	Teams designing modular, orchestrated systems with accountability and version control.



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