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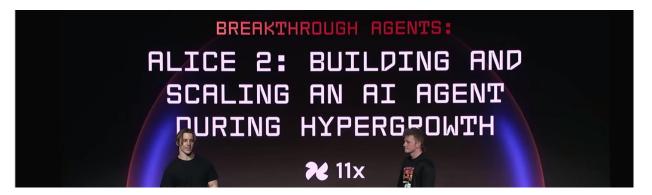
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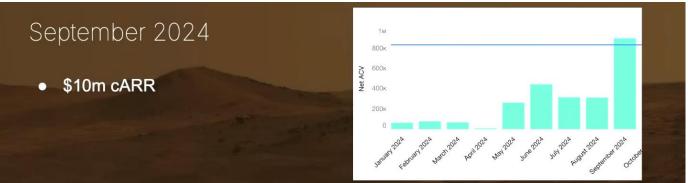
11x's Sherwood Callaway and Keith Fearon share how they rebuilt their AI SDR Alice from scratch, detailing their architectural journey from ReAct agents to multi-agent systems using our agent stack - LangGraph, LangGraph Platform, LangSmith, and LangChain. Learn about real-world agent architecture decisions, challenges faced, and practical lessons from building production AI agents.

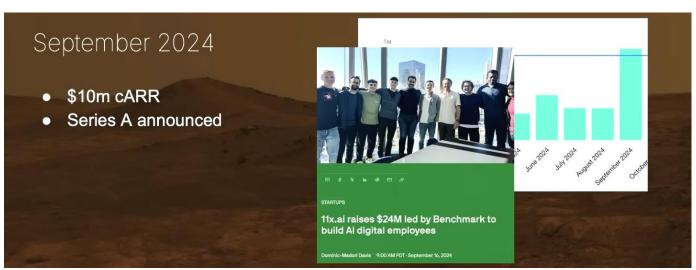


SHERWOOD CALLAWAY ENGINEERING LEAD, 11X

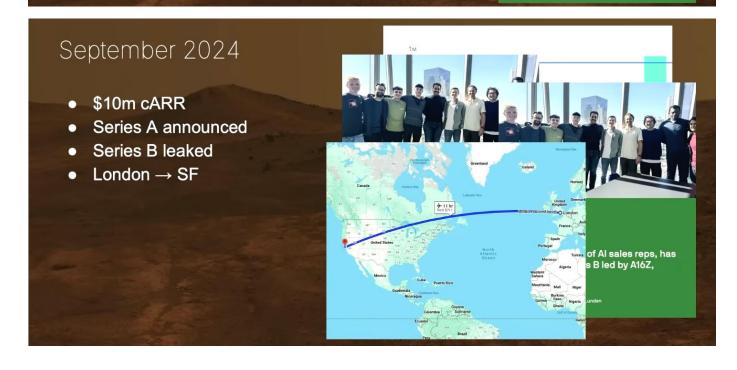
KEITH FEARON HEAD OF GROWTH, 11X







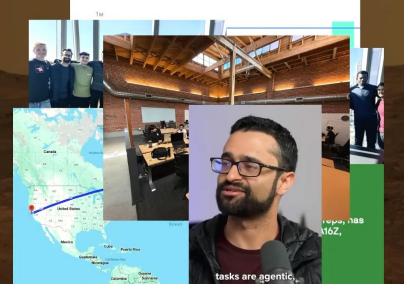






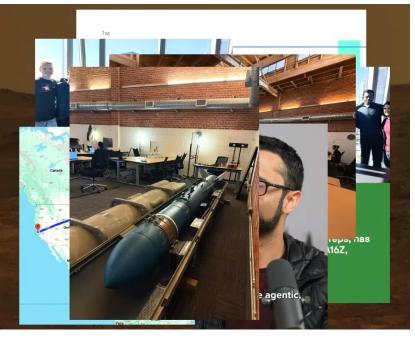
September 2024

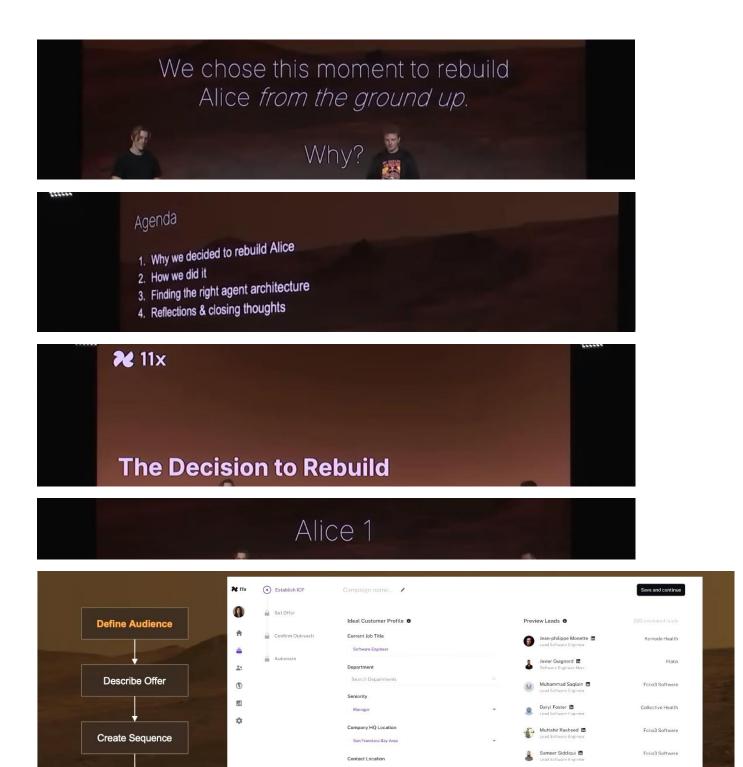
- \$10m cARR
- Series A announced
- Series B leaked
- London → SF
- New office
- New CTO



September 2024

- \$10m cARR
- Series A announced
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- London → SF
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- New CTO
- Rocket?!





Industries

Tiago Catita

Qasim Javed

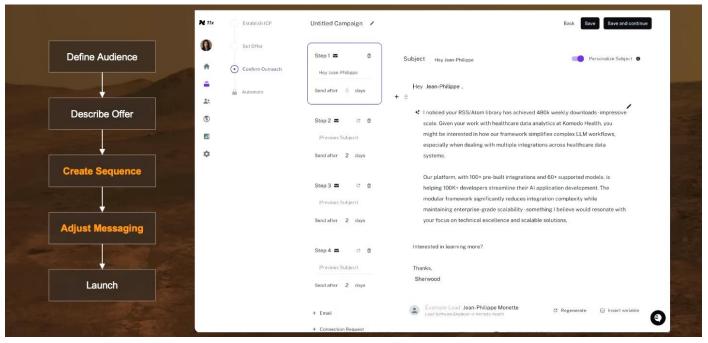
Boku

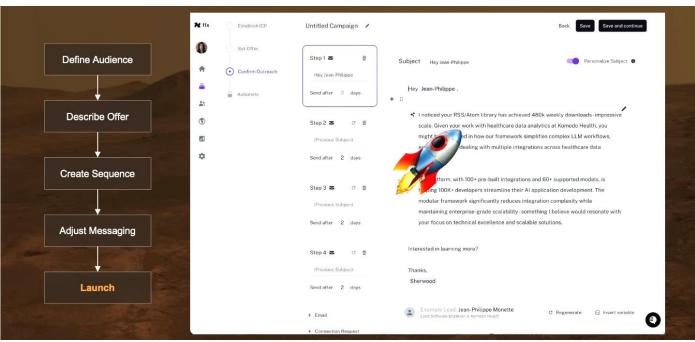
Folio3 Software

Creating a custom AI campaign creation workflow

Adjust Messaging

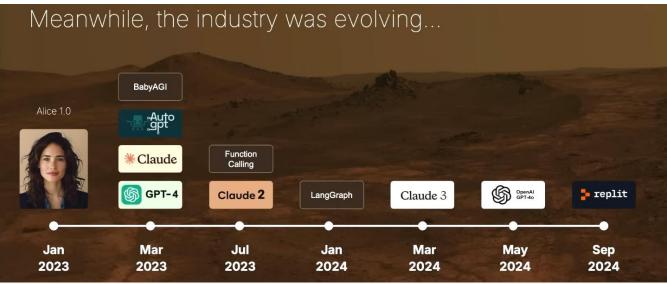
Launch

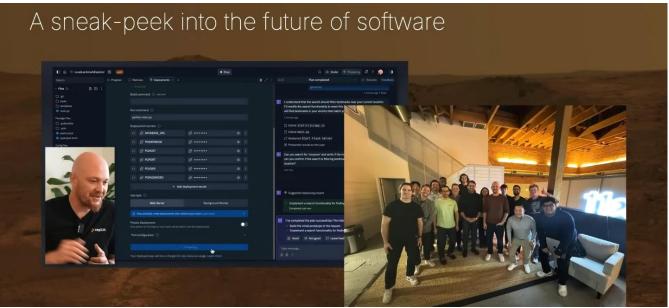


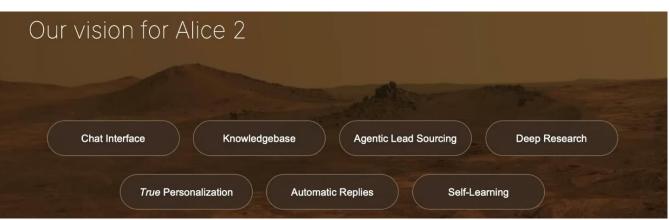








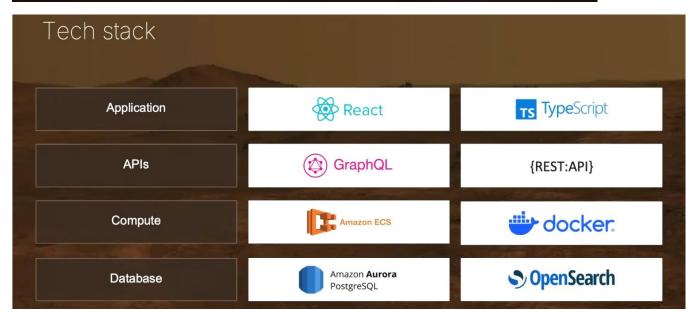


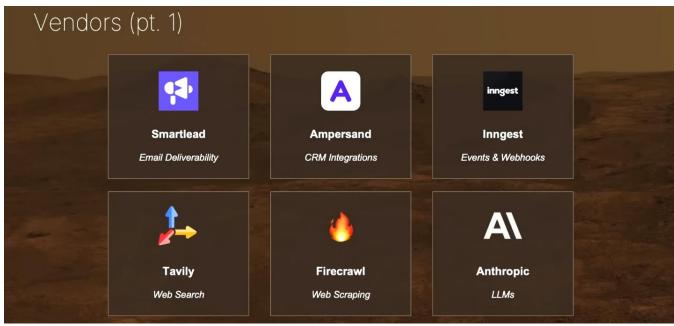


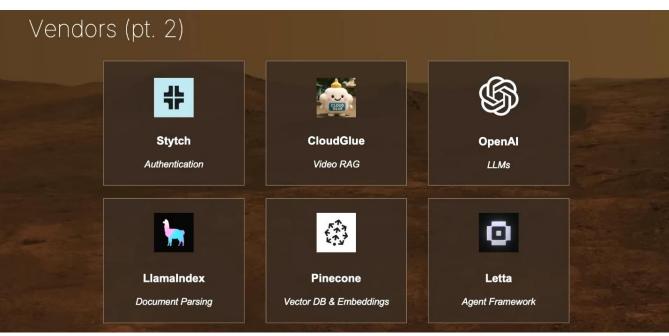
Rebuilding Alice

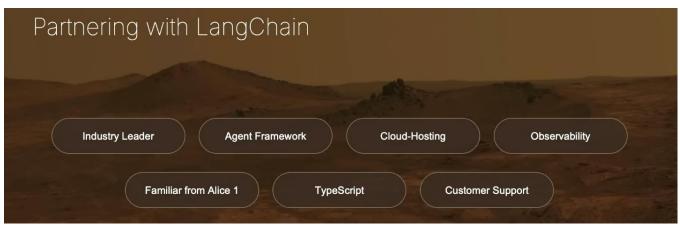
The mission 3 months 2 engineers 1 product manager (Keith!) 300 customers to migrate

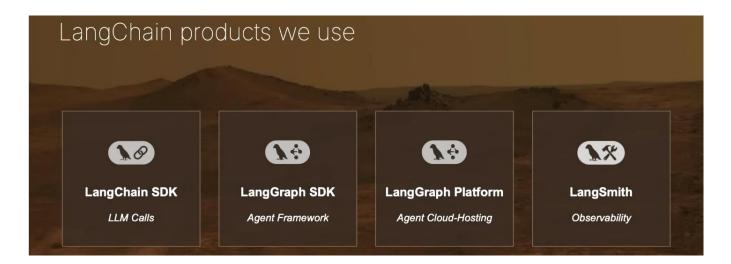
Key decisions 1. Start from scratch 2. Don't reinvent the wheel 3. Leverage vendors to move fast



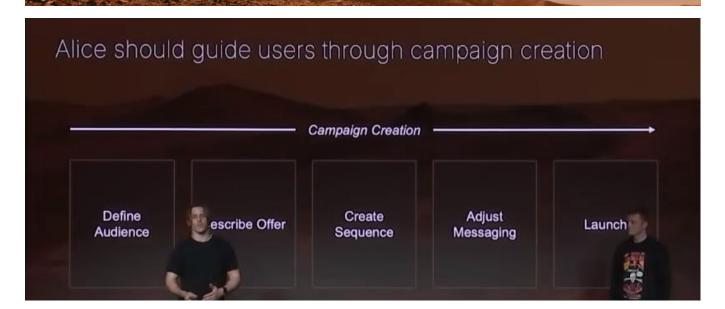






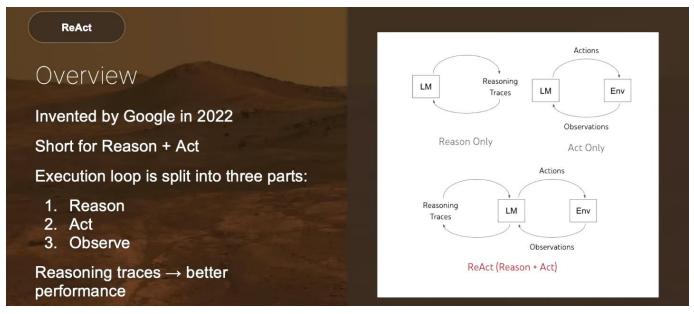


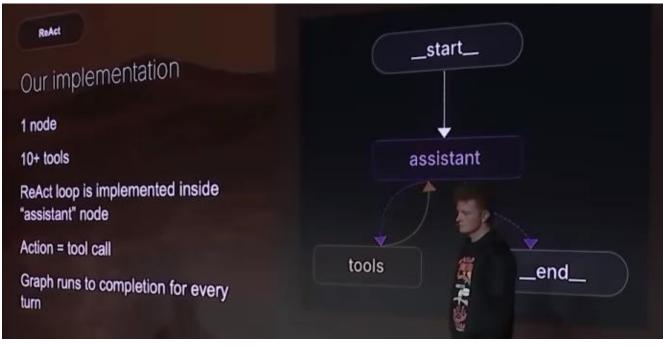
Finding the Right Agent Architecture



We tried three different agent architectures

1. ReAct
2. Workflow
3. Multi-agent







ReAct

What to know about tools

- Necessary to take action
- Necessary to access info beyond the context window (RAG)
- · Can be used to call other agents
- Preferable ov "skills" (calculator vs. mental arithmetic)

ReAct

Strengths of the ReAct architecture

- Simple
- Great at handling arbitrary user input over multiple turns

ReAct

Issues with the ReAct architecture

- Bad at tools
- Infinite loops
- Recursion limit errors
- Mediocre puts (audiences, sequences, emails, etc.)

How can we address these issues?

"Systems where LLMs and tools are orchestrated through predefined code paths"

Not the same as agents

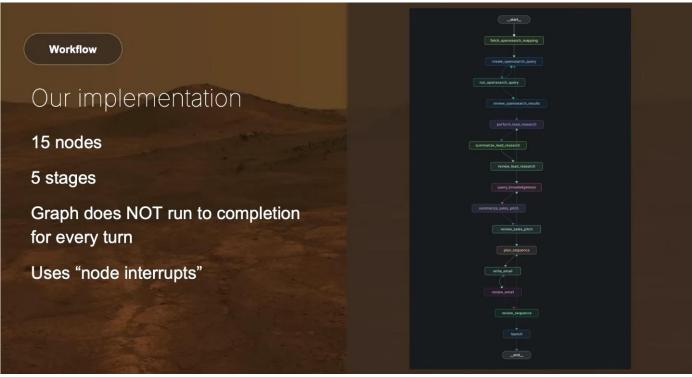
Highly-structured

Not a new technology (see: Airflow)

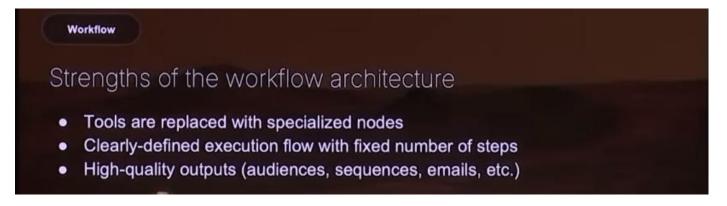
What are agents?

"Agent" can be defined in several ways. Some customers define agents as fully autonomous systems that operate independently over extended periods, using various tools to accomplish complex tasks. Others use the term to describe more prescriptive implementations that follow predefined workflows. At Anthropic, we categorize all these variations as agentic systems, but draw an important architectural distinction between workflows and agents:

- 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.



The 5 stages correspond to the different stages of a campaign creation



Issues with the workflow architecture

Complex

Doesn't support "jumping around" within campaign creation flow

What else can we try?

Multi-Agent

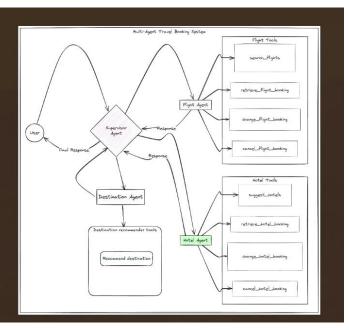
Overview

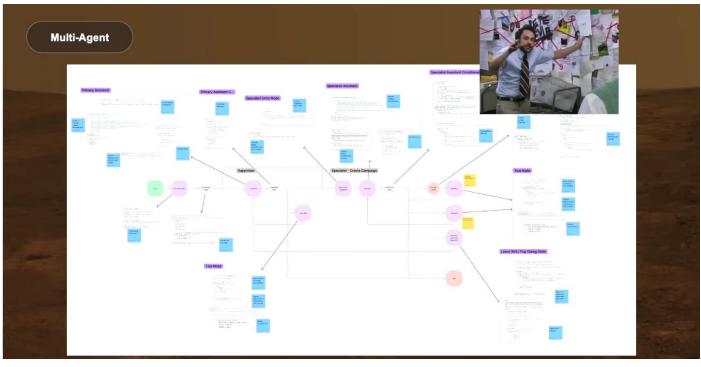
Hierarchical

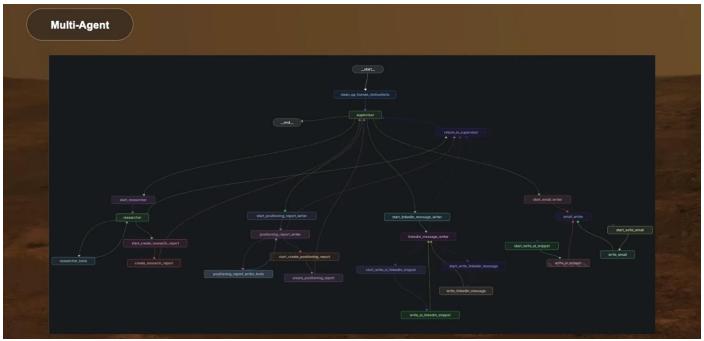
1 supervisor + N sub-agents

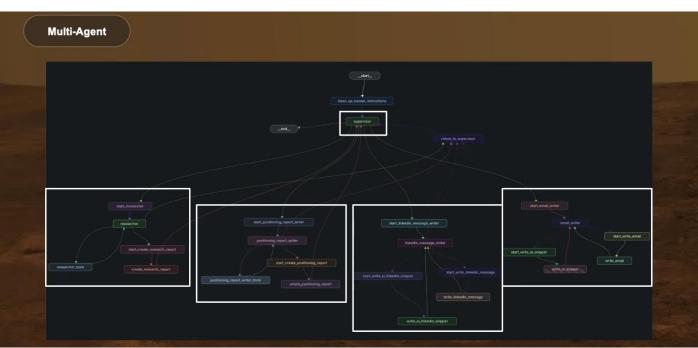
Supervisor interacts with user; routes tasks to sub-agents

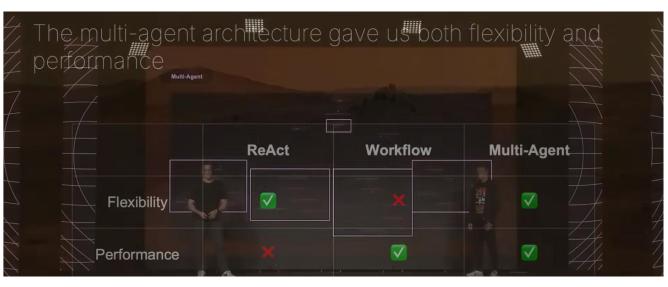
Sub-agents fulfill tasks; escalate to back to supervisor











Reflections on building agents Simplicity is key

- A new model can change everything
- Think of your agent as a human coworker (or a team of humans)
- Break big tasks down into smaller tasks
- Tools > skills
- Don's rget about prompt engineering!







