Going Meta #27
Building a Reflection Agent with LangGraph

The initial idea...

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⚠️ RAG might be dead, after reading 58 pages of Genimi 1.5 Pro tech report. Here's my thoughts as AI founder,

1. Simple RAG system like similarity search with vector db will be dead. But more customized RAG will still live. The goal of RAG is mostly on retrieval relevant information. After reading the report, I am convinced LLM can do retrieval really really well.
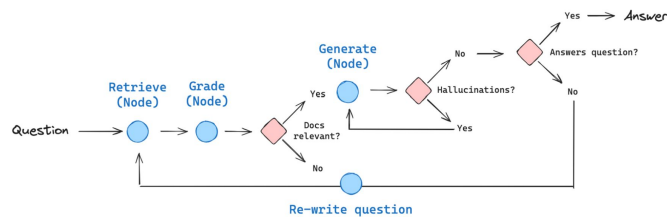2. RAG itself may not be dead totally, but 90% of people won't need it anymore. Most datas... API, once Gemini API... cost. However based... cost is much much lo...

Is RAG Really Dead?

Lance Martin
Software Engineer, LangChain
@RLanceMartin

Reasoning: Use reasoning / self-reflection around RAG

https://arxiv.org/abs/2310.11511
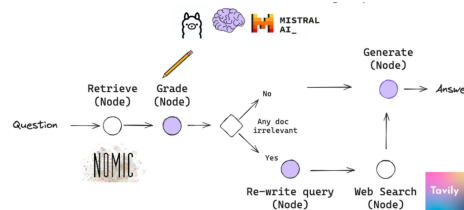https://www.youtube.com/watch?v=E2shqsYwxck
https://github.com/langchain-ai/langgraph/blob/main/examples/rag/langgraph_self_rag.ipynb

Reasoning: Use reasoning / self-reflection around RAG

https://arxiv.org/abs/2401.15884
https://www.youtube.com/watch?v=E2shqsYwxck
https://github.com/langchain-ai/langgraph/blob/main/examples/rag/langgraph_crag.ipynb

https://docs.google.com/presentation/d/1mJUiPBdtf58NfuSEQ7pVSEQ2Oqmek7F1i4gBwR6JDss/edit#slide=id.g26c0cb8dc66_0_131

But then...

What's next for AI agentic workflows ft. Andrew Ng of AI Fund

Sequoia Capital
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100K views 6 days ago #AI #entrepreneur #Sequoia
Andrew Ng, founder of DeepLearning.AI and AI Fund, speaks at Sequoia Capital's AI Ascent about what's next for AI agentic workflows and their potential to significantly propel AI advancements—perhaps even surpassing the impact of the forthcoming generation of foundational models. ...more
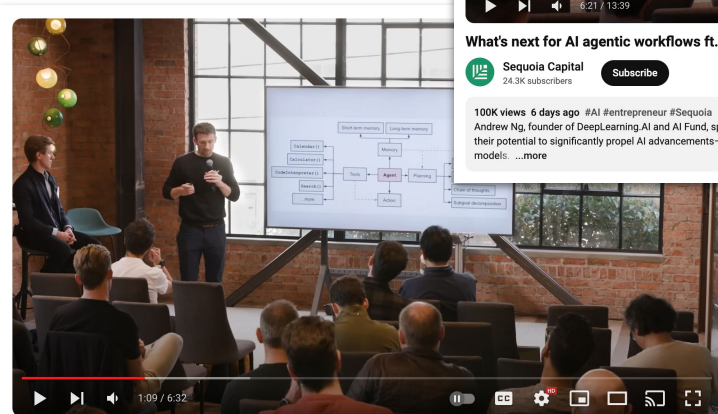
What's next for AI agents ft. LangChain's Harrison Chase

Sequoia Capital
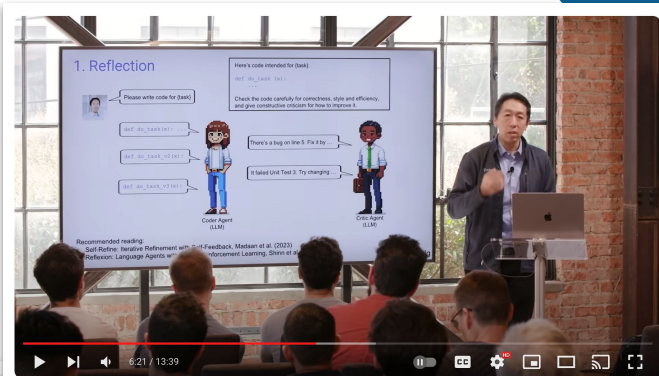24.3K subscribers
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23K views 3 days ago #AI #entrepreneur #Sequoia
Harrison Chase, founder of LangChain, speaks at Sequoia Capital's AI Ascent about what's next for agents in AI and the evolution of using language model to interact with the external world. Harrison identifies three critical areas of development for the next generation of agents that would make them production-ready and more impactful in the real world: planning, user experience and memory. ...more

LLM-based agents

LLM-based agents

Non-agentic workflow (zero-shot):

Please type out an essay on topic X from start to finish in one go, without using backspace.

Start
↓
Finish
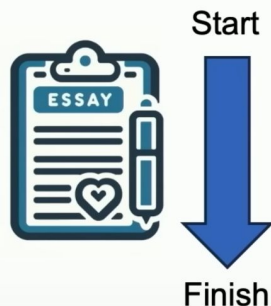
Agentic workflow:

Write an essay outline on topic X
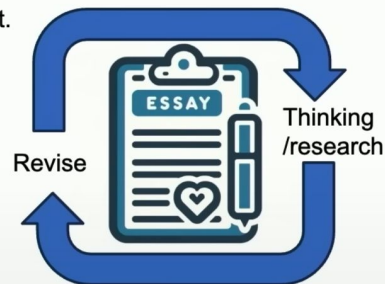
Do you need any web research?

Write a first draft.

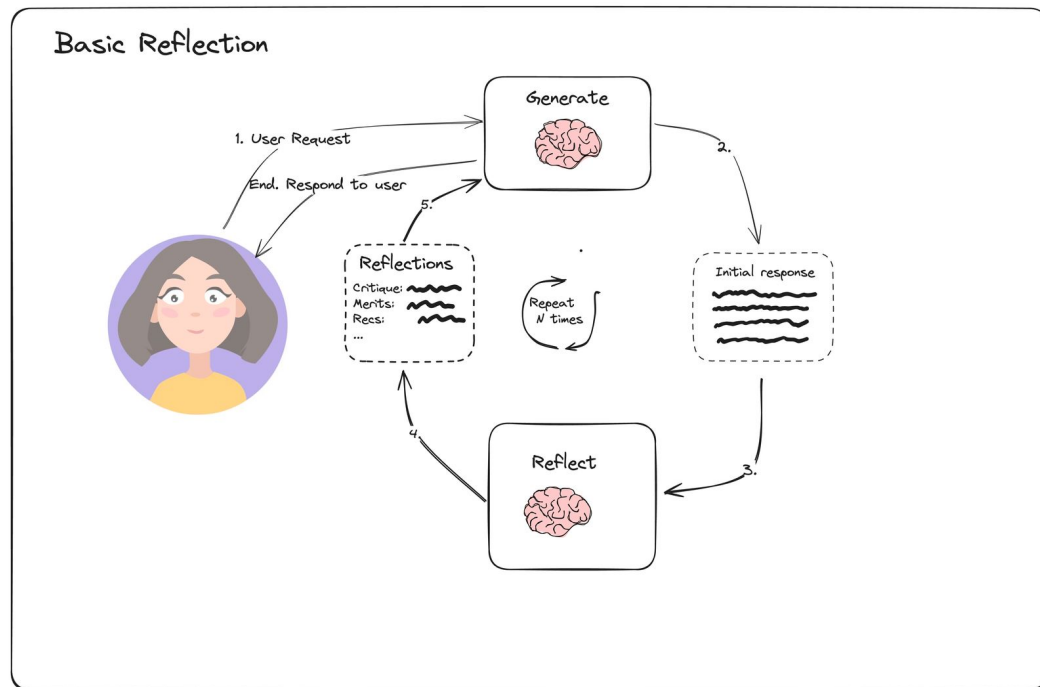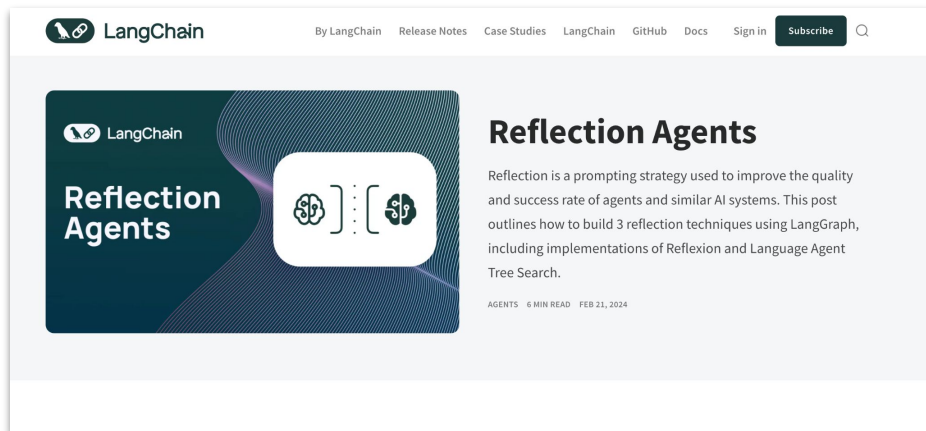Consider what parts need revision or more research.

Revise your draft.

....

Revise — Thinking /research

From Andrew Ng presentation **"What's next for AI agentic workflows"**
https://www.youtube.com/watch?v=sal78ACtGTc

Basic Reflection

https://blog.langchain.dev/reflection-agents/

The libraries: LangChain + LangGraph

https://blog.langchain.dev/reflection-agents/

https://python.langchain.com/docs/langgraph
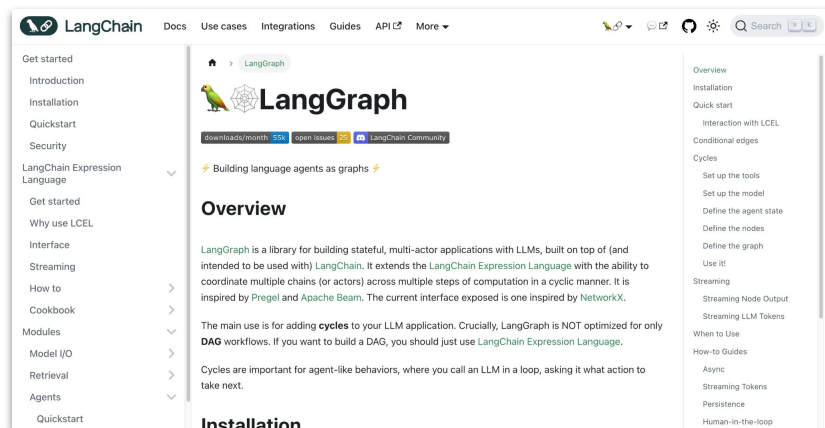
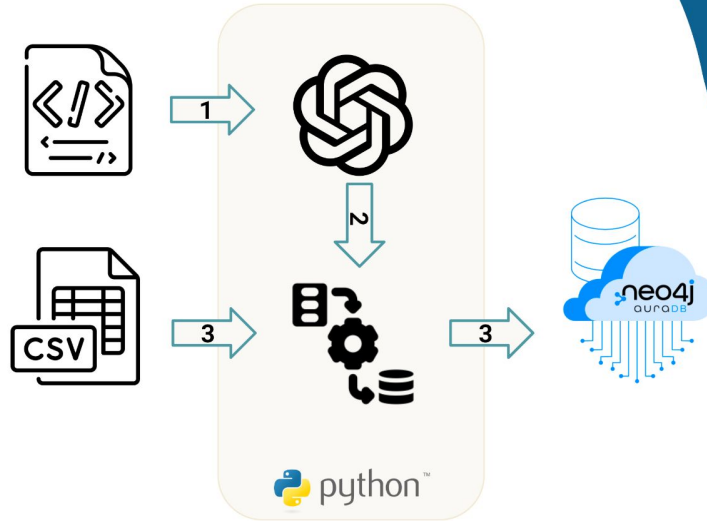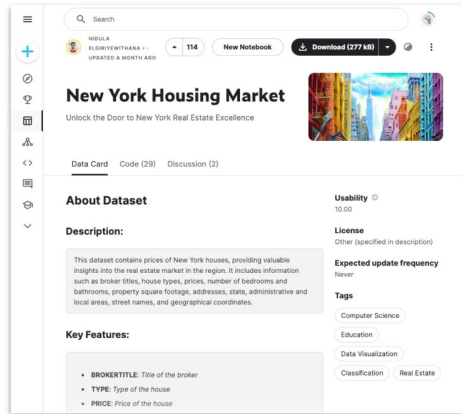# The automated KG construction process

Let's see it in action!

The graph of the app