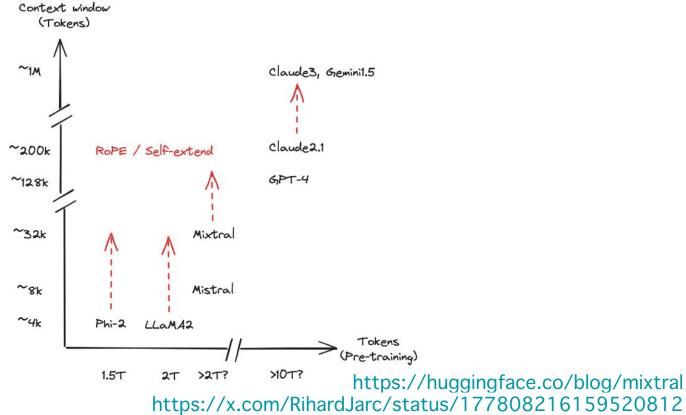


RAG from scratch: Overview

Lance Martin
Software Engineer, LangChain
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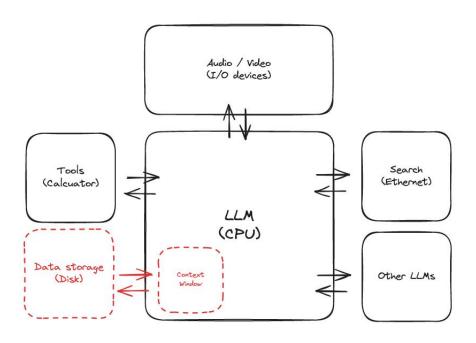
> 95% of the world's data is "private", but we can "feed it" to LLMs



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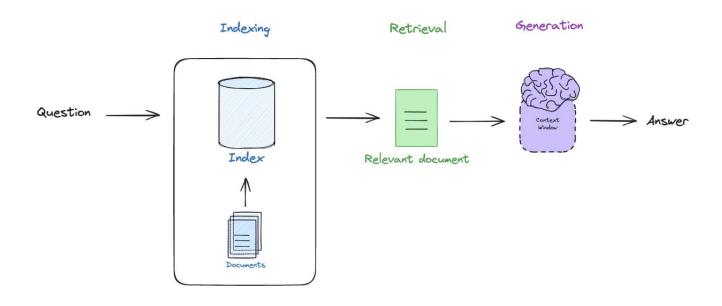


Connecting LLMs to external data is a central need



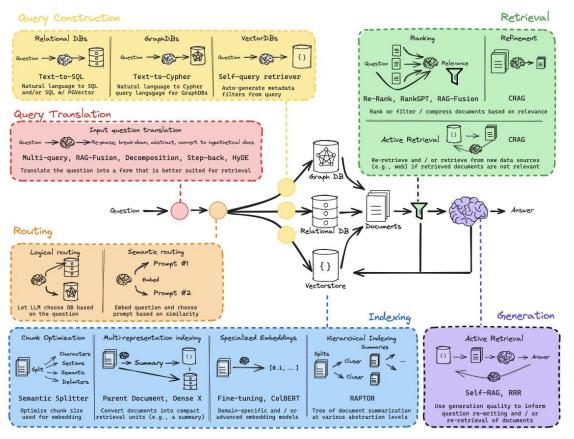


Retrieval Augmented Generation





We'll start from scratch, and build up to state of the art in RAG





Outline

Basics

- Indexing
- Retrieval
- Generation

Advanced

- Query transformations
- Routing
- Query construction
- Indexing
- Retrieval
- Generation



Code walk-through