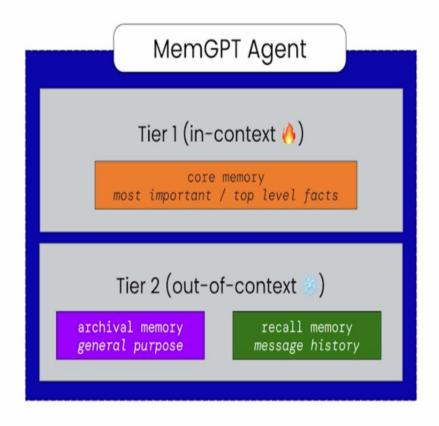
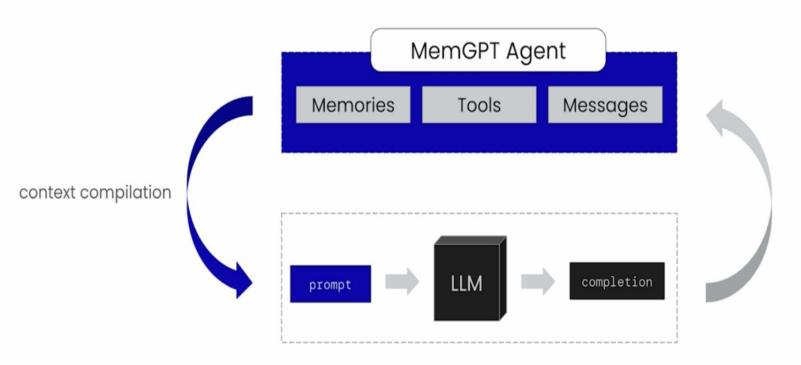
MemGPT

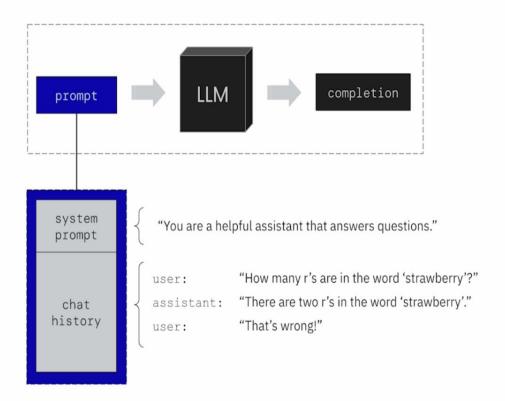
MemGPT agents have two tiers of memory - core memory (tier 1) and archival/recall (tier 2)



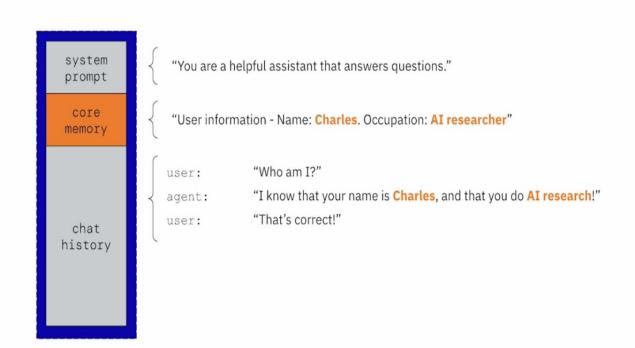
How can we turn our **agent state** into a **prompt**?



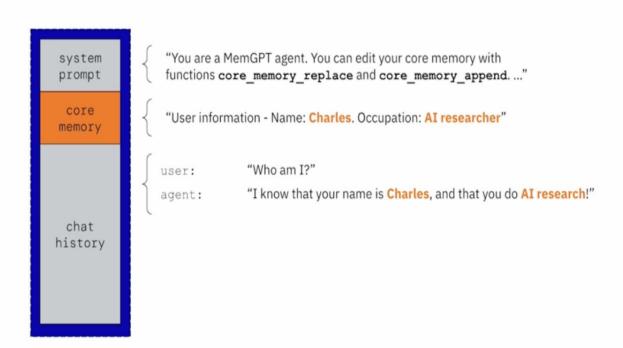
In most popular LLM APIs ("Chat Completion"), the LLM input is divided into "system prompt" and "chat history"



In a MemGPT agent, we add reserve a piece of the context window for **core memory**



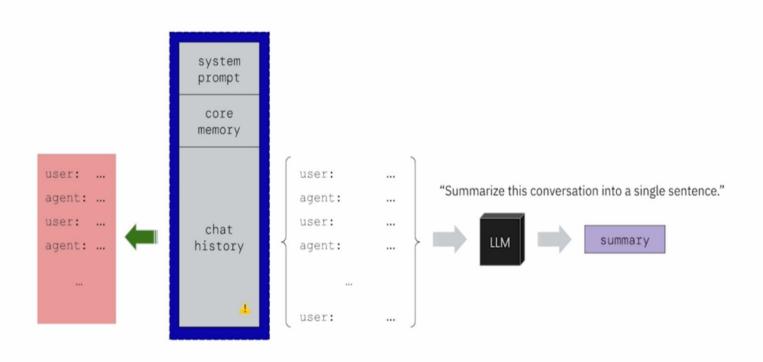
The system prompt includes information about **how to edit** core memory



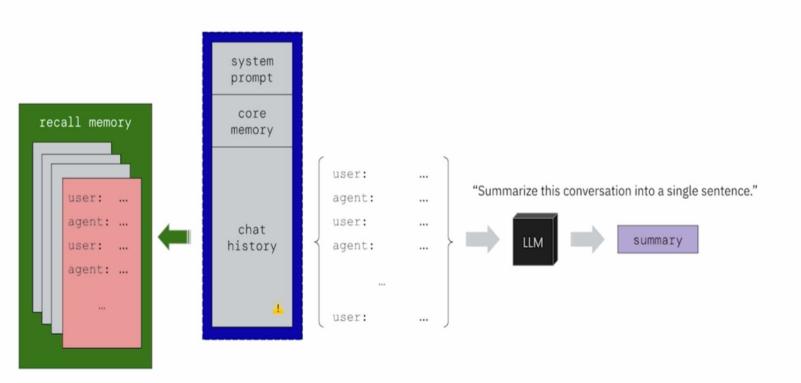
The system prompt includes information about **how to edit** core memory



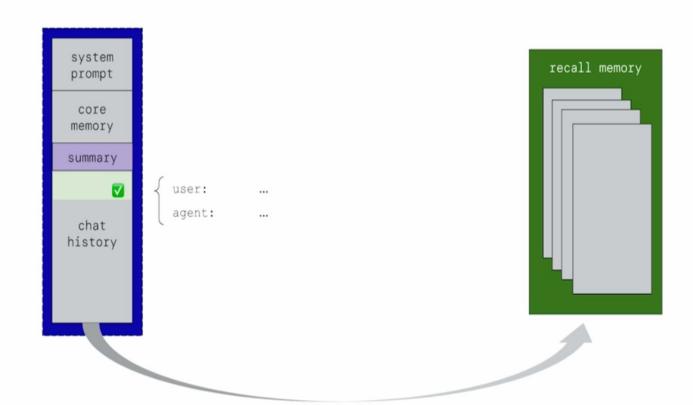
When we run out of space: **summarize** and **flush** (evict) memory



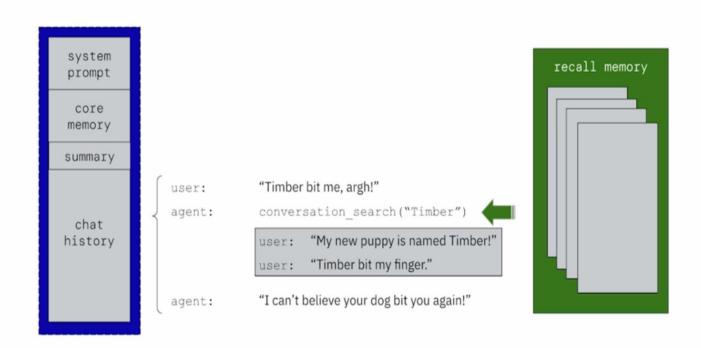
We store the evicted messages inside on "disk" (an "unlimited" data store)



By flushing messages to external storage, we "reset" our context window



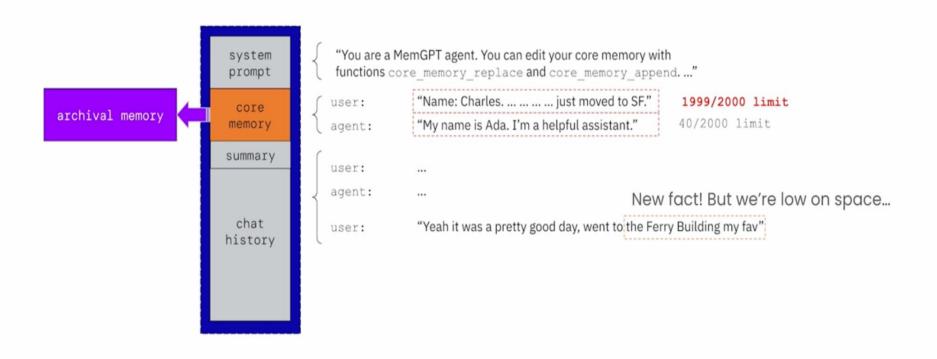
If the agent needs access to old messages, it can **search** recall storage



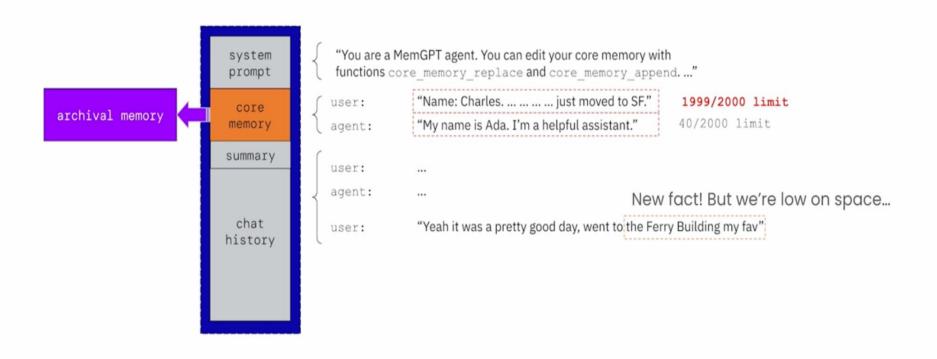
Core memory is also limited in size



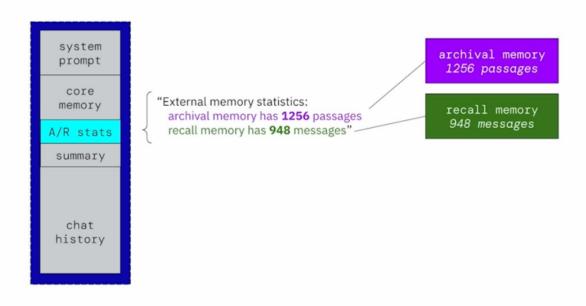
MemGPT agents have a "second tier" of memory: archival memory



MemGPT agents have a "second tier" of memory: archival memory



External memory statistics help the MemGPT agent "know what it doesn't know"



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