

Symbols

Black font: Notations

Red font: Operations

: Forward Process

: Edges between nodes

: Insight node : Query node

: Agent utterance node

Query/Task \mathcal{Q}

Topic: Embodied
Difficulty: ★★★★★
You are in the middle of a room. Looking quickly around you, you see a cabinet 6, a cabinet 5, ... Your task is to: put a clean egg in microwave.

Topic: Web search
Difficulty: ★★★★★
Are both Lygodium or Maxillaria a genus of orchids?

Topic: Embodied
Difficulty: ★★★★★
Your task is to find a butterfly egg in the outside. Move it to the green box in the bathroom.

Topic: Game
Difficulty: ★★★★★
b1 is on b2., b2 is on b6.,
b3 is on b7., b5 is on b3.

Insight Graph

$$\mathcal{G}_{\text{insight}}^{(t)} = (\mathcal{I}, \mathcal{E}_i)$$

Insight

Ensure the search terms are precise and directly related to the specific entity or institution ...

Query

Are Deodato and Alejandro both film directors?

Similarity-based Retrieval

Query Graph

$$\mathcal{G}_{\text{query}}^{(t)} = (\mathcal{Q}, \mathcal{E}_q)$$


Interactions

. CEO agent: assigning tasks...
. Thinker agent: OK, I will...
. Executor agent: ...


Interaction Graphs



$$\mathcal{G}_{\text{inter}}^{(Q)} = (\mathcal{U}^{(Q)}, \mathcal{E}_u^{(Q)})$$

Distilled Insights

 Insight 1: Clearly identify key entities and their roles, use specific names and titles

from 

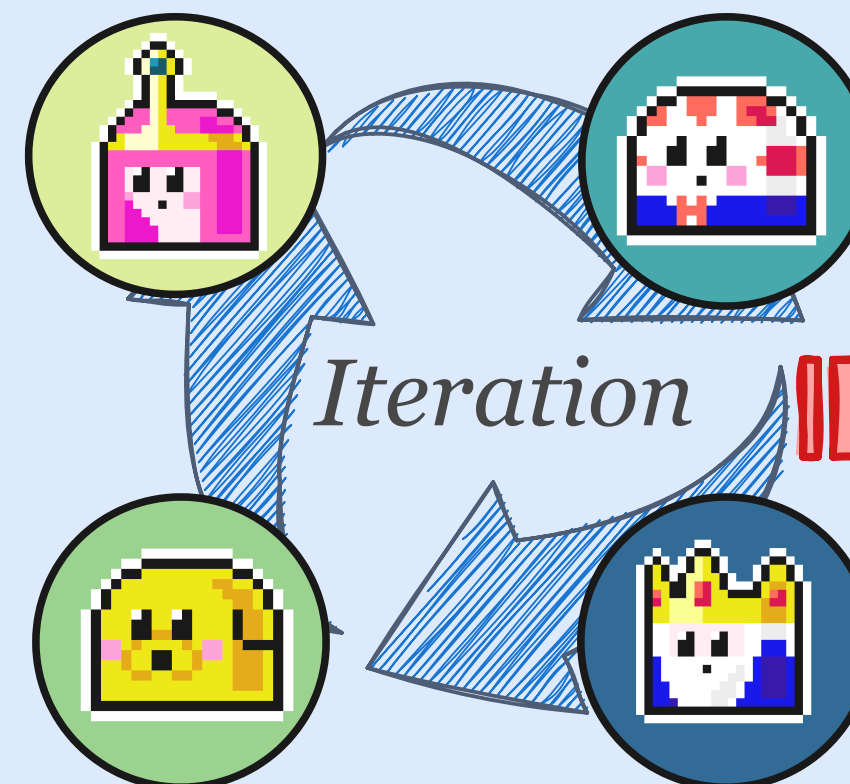
 Insight 2: Double-check the relevance of the search results

from  and 

Memory

Augmentation

Multi-agent System \mathcal{G}



Output Solution

Since both are confirmed as film directors from their respective countries, the answer is Yes.

Environment Feedback

- Execution: Success
- Token cost: 3,345
- Tool calls: 3 ...

Memory

Augmentation

Trajectory Condensation



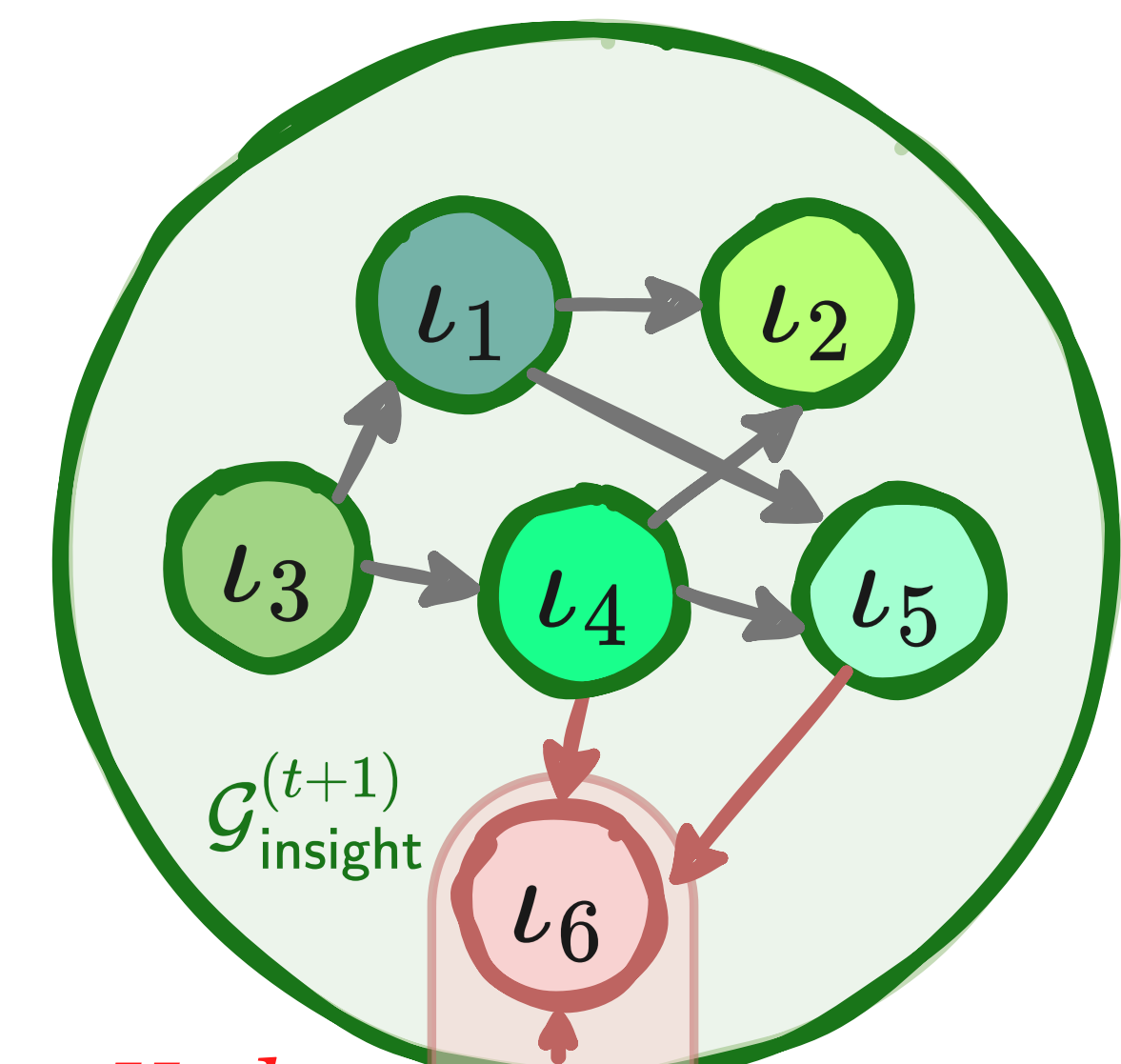
Collab. Experience

- This history follows a chain-style, collaboration strategy...

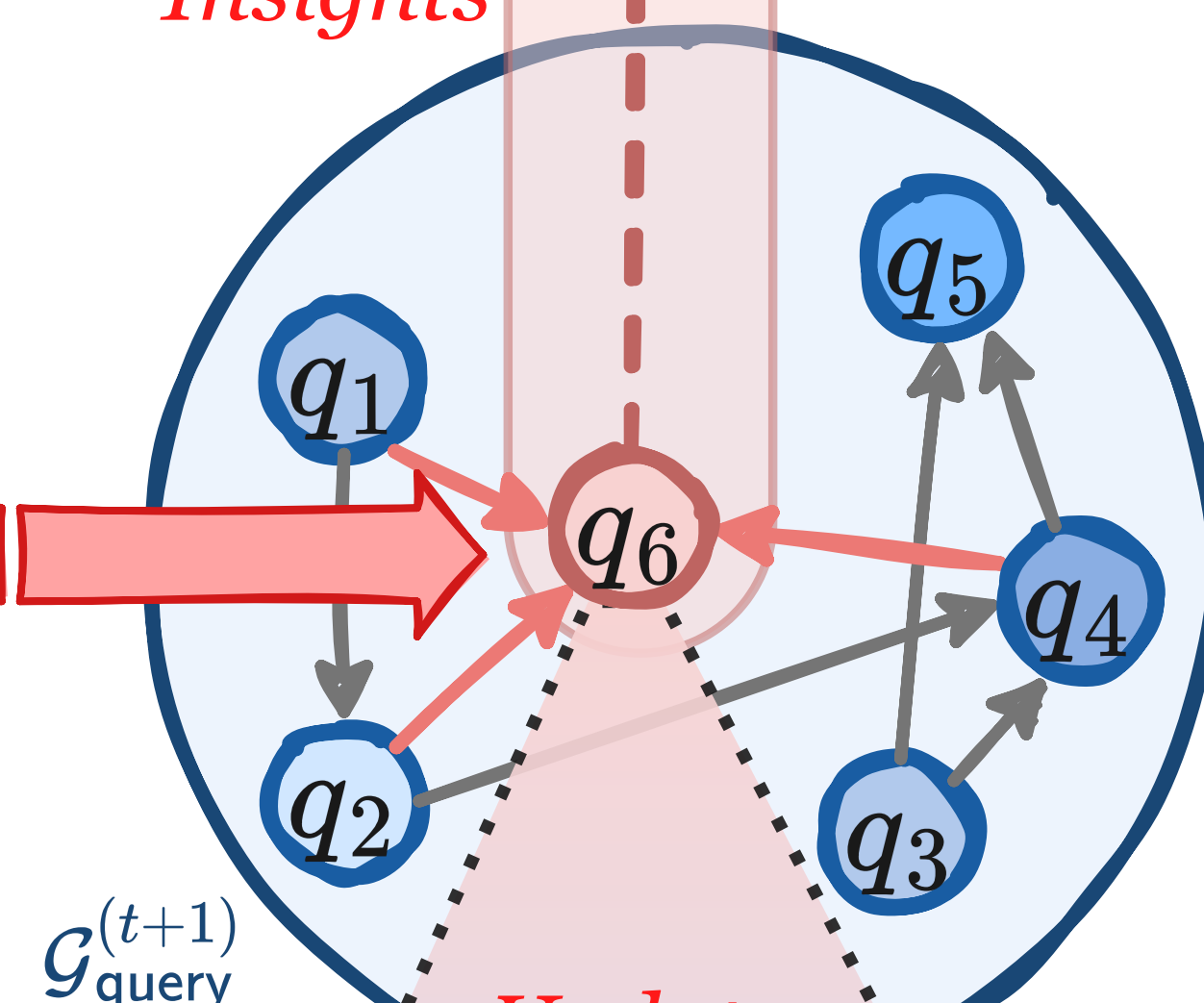


Failure Lessons

- Take care when summarizing the final result, DO NOT ...



Update Insights



Update Interaction

