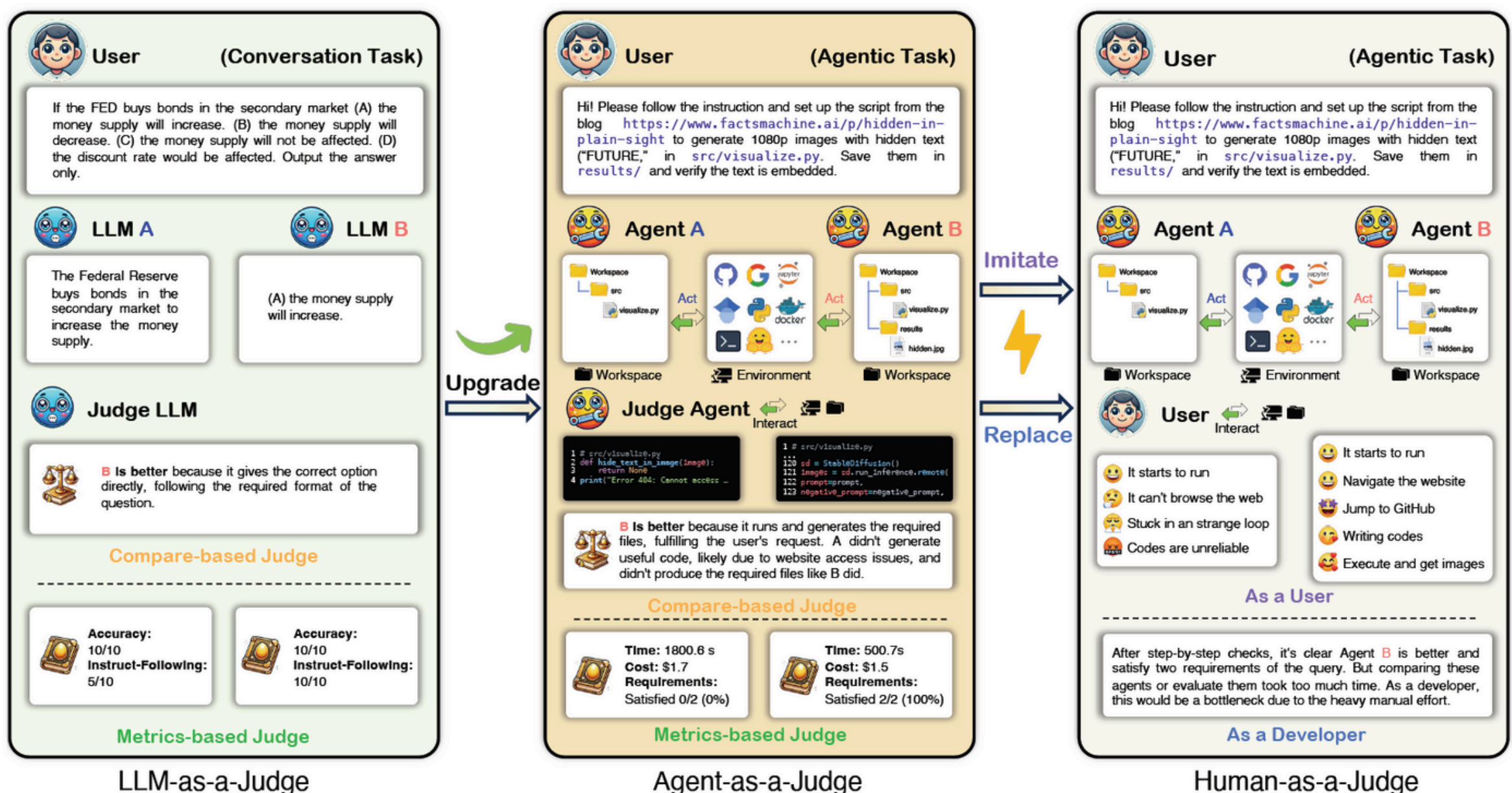


By Meta

Agent-as-a-Judge

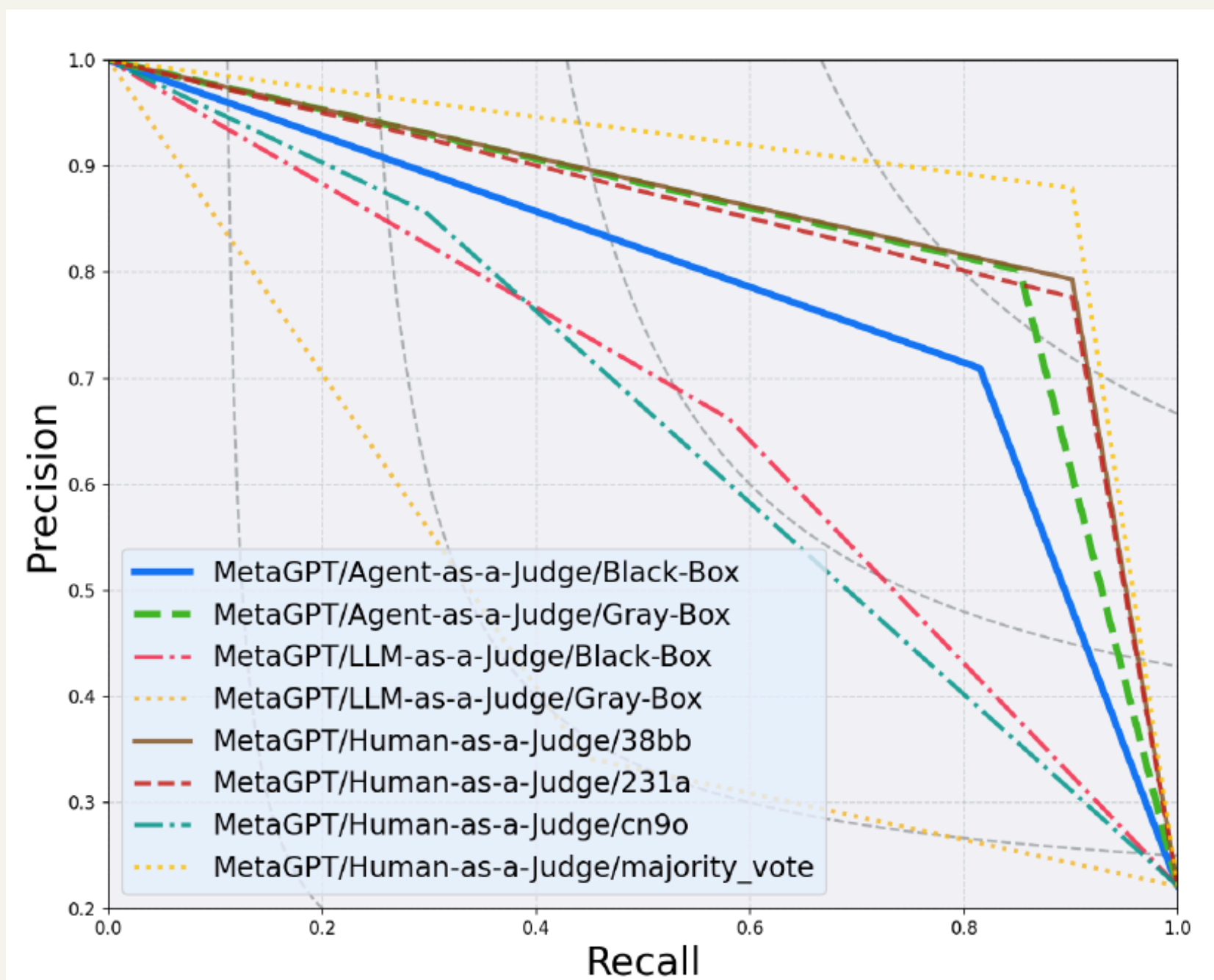
- 1 Rich Intermediate Feedback:** Unlike traditional evaluation methods, Agent-as-a-Judge provides rich intermediate feedback that captures the entire thought and action trajectory, enhancing the understanding of agentic systems.
- 2 Evolved from LLM-as-a-Judge:** It builds upon the LLM-as-a-Judge framework but integrates agentic features for more detailed evaluations of agentic systems.
- 3 Cost-Effectiveness:** Demonstrates significant cost and time savings compared to human evaluators, making it a scalable alternative.



By Anthropic

Benchmarking Agent-as-a-Judge

- 1 Outperformed LLM-as-a-Judge:** Agent-as-a-Judge aligned with human evaluators' consensus at a rate of **90%**, significantly outperforming LLM-as-a-Judge at **70%**.
- 2 Efficiency Gains:** Evaluations done using Agent-as-a-Judge cost only **2.28%** of the human evaluation baseline while taking just **2.36%** of the time.
- 3 Dynamic Feedback Integration:** The modular components allowed for dynamic evidence collection throughout task completion, leading to more accurate judgments.



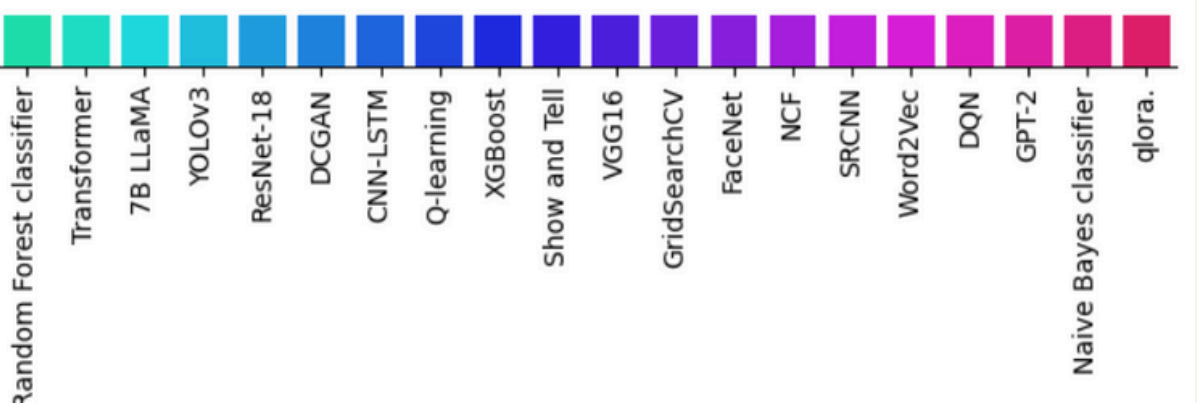
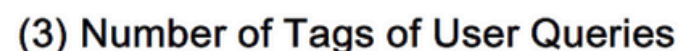
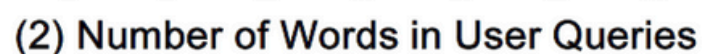
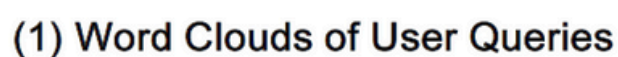
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DevAI-Dataset for AI Agents

1 world comprehensive tasks, each with detailed requirements, to evaluate agentic systems thoroughly

2 with dependencies in a directed acyclic graph, providing a non-sparse evaluation compared to existing benchmarks.

3 used to benchmark three popular open-source agentic systems, providing a proof-of-concept for Agent-as-a-Judge.

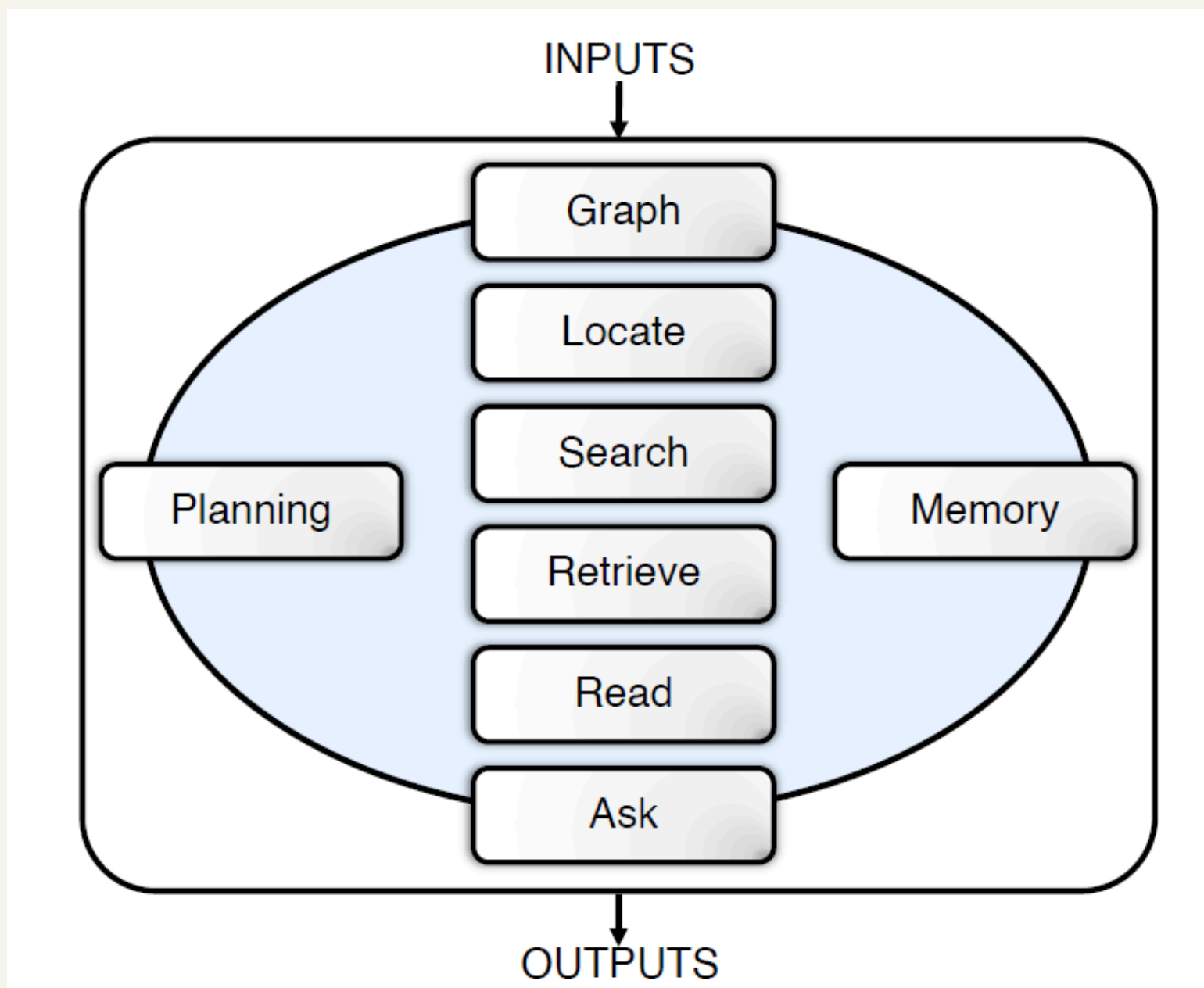


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By Anthropic

Human vs. Agent Evaluation

- 1 Comparable to Human Evaluators:** The Agent-as-a-Judge aligned with human evaluators at a similar level of accuracy, suggesting that it could replace human judges for certain tasks.
- 2 Reduction in Variability:** Unlike human judges who showed variability in their evaluations, Agent-as-a-Judge provided consistent and unbiased feedback across different tasks.
- 3 A Fraction of the Cost and Time:** The framework saved over 97% of both the cost and time needed compared to the human evaluators, highlighting its scalability and effectiveness.



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