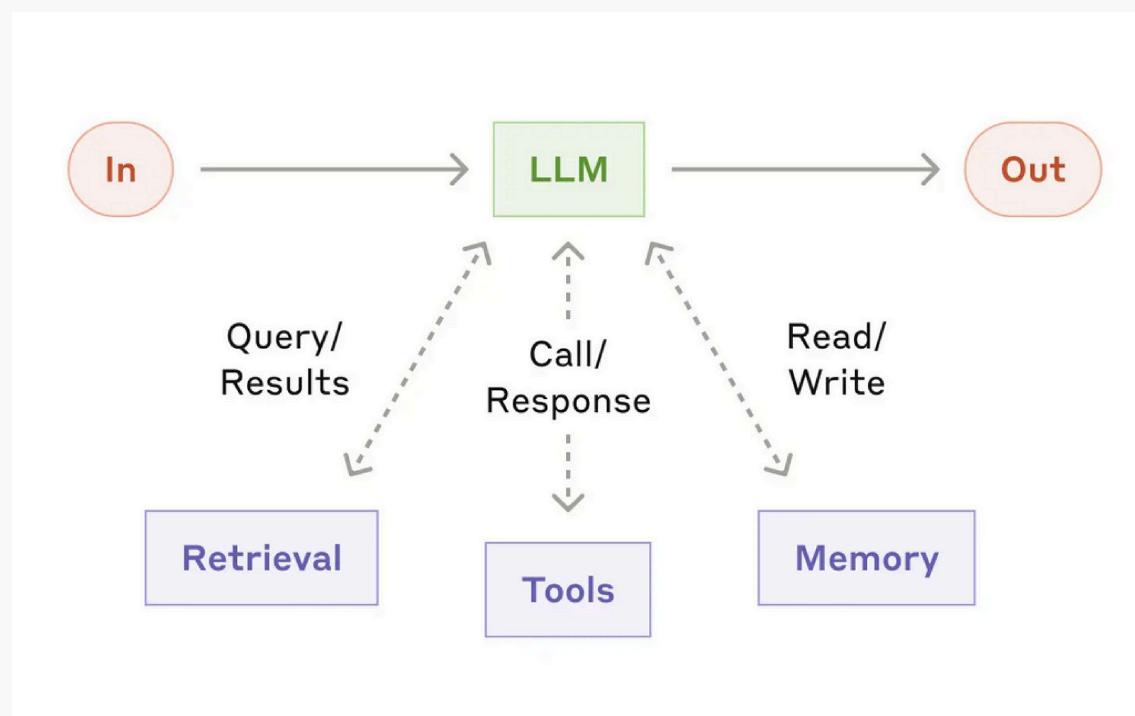


# Building block

# The augmented LLM

LLM enhanced with augmentations such as retrieval, tools, and memory



Based on Anthropic's "Building Effective Agents" guide  
[anthropic.com/engineering/building-effective-agents](https://anthropic.com/engineering/building-effective-agents)



[linkedin.com/in/neehanthreddy](https://linkedin.com/in/neehanthreddy)

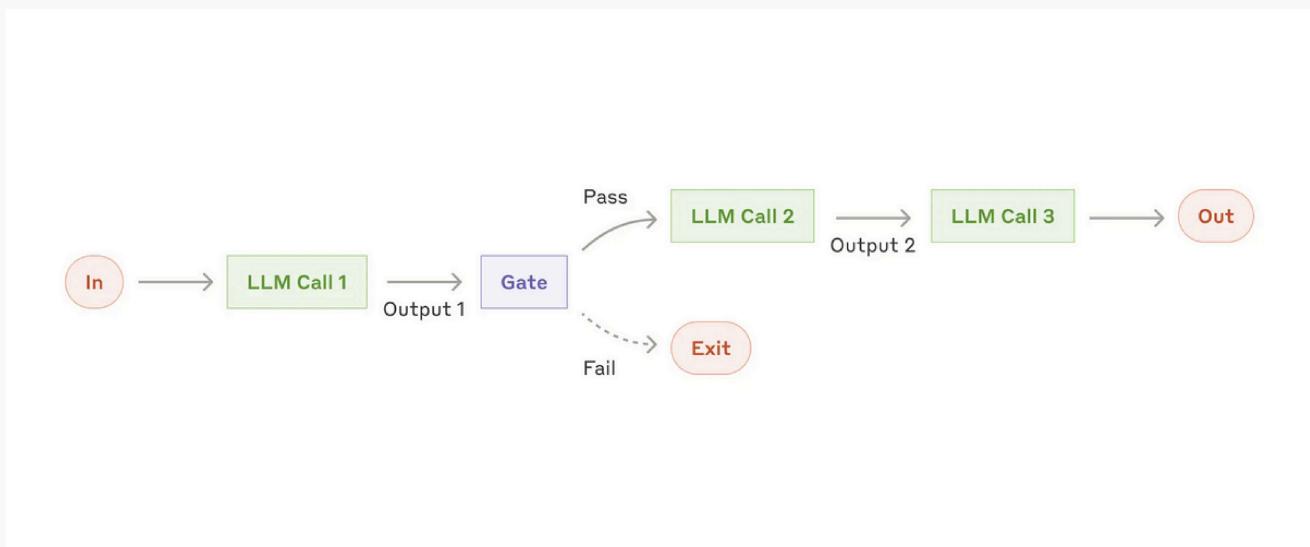


[github.com/neehanthreddym](https://github.com/neehanthreddym)

# Workflow

# Prompt chaining

Breaks down a task into a series of steps, with each LLM call processing the preceding one's output.

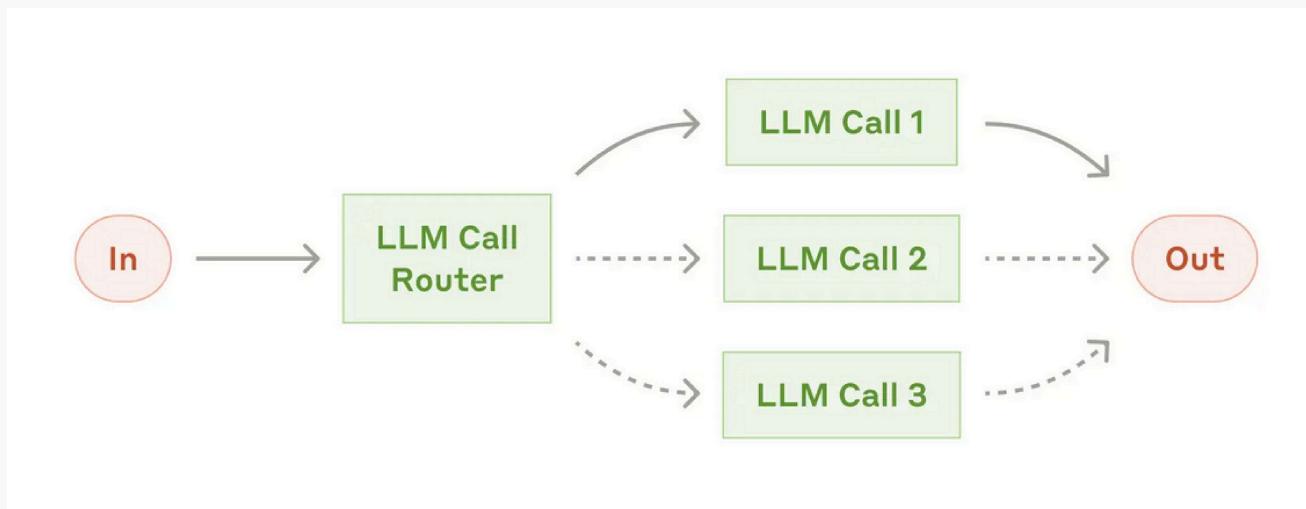


## When to use

When a task can be simply and neatly divided into fixed subtasks, this process is perfect. The primary objective is to trade off latency for increased accuracy by simplifying each LLM call.

# Workflow Routing

Identifies an input and routes it to a certain follow-up task.

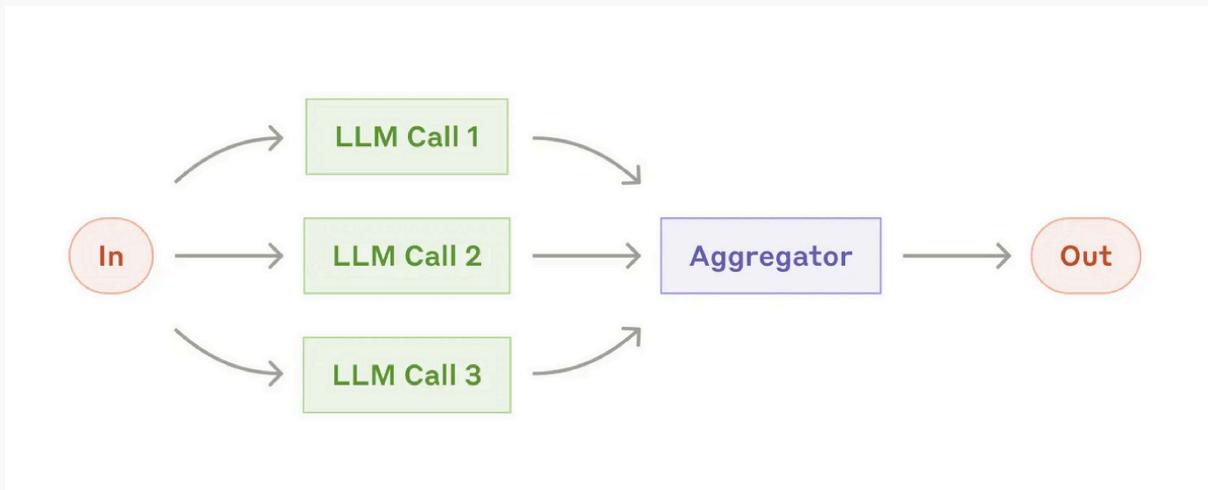


## When to use

Routing is a good way to manage complicated activities that have clear categories that are better off being handled individually. It can also be done accurately by an LLM or a more traditional classification model or algorithm.

# Workflow Parallelization

LLM does several processes concurrently, either by dividing a task into separate components or by repeatedly executing the same operation in order to compare and aggregate various outcomes.



## When to use

Use parallelization when you need faster execution or better results by splitting work into independent parts or comparing multiple attempts.

# Additional Workflows

## Orchestrator-workers

The orchestrator-workers workflow uses a central LLM to break a task into subtasks, assign them to worker LLMs, and combine their results into a final output.

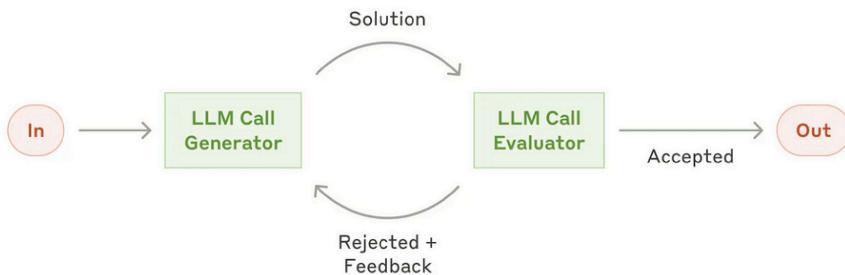
Ideal for complex tasks where the necessary subtasks are unpredictable.



## Evaluator-optimizer

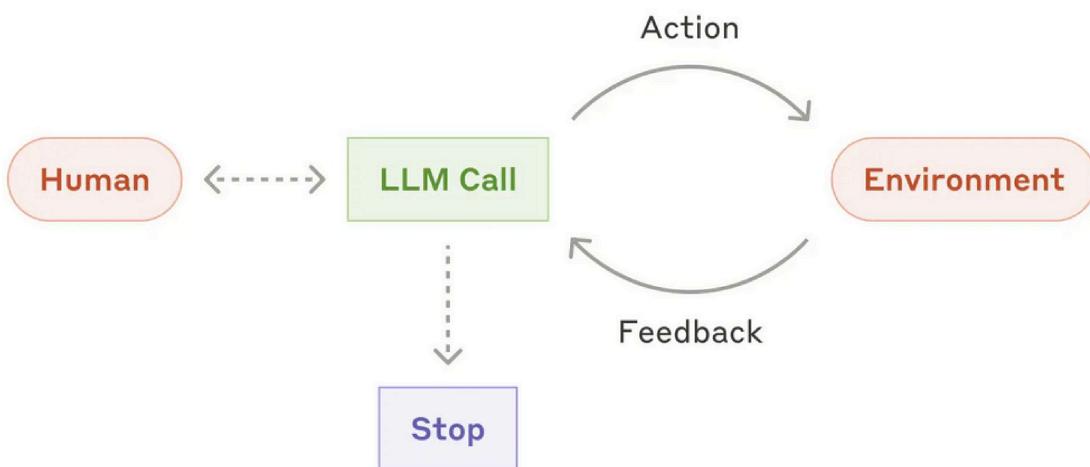
One LLM call produces a response in the evaluator-optimizer cycle, while another continuously gives evaluation and feedback.

Useful when clear evaluation criteria exist and iterative feedback can meaningfully improve results, much like refining a draft through multiple rounds of review.



# Agents

Agents are LLMs that plan and act independently on complex tasks, using tools and environmental feedback in a loop, while optionally consulting humans at checkpoints or when blocked.



Use agents for open-ended tasks with unpredictable steps, where autonomous decision-making is needed, but ensure safeguards and testing to manage cost and error risk.