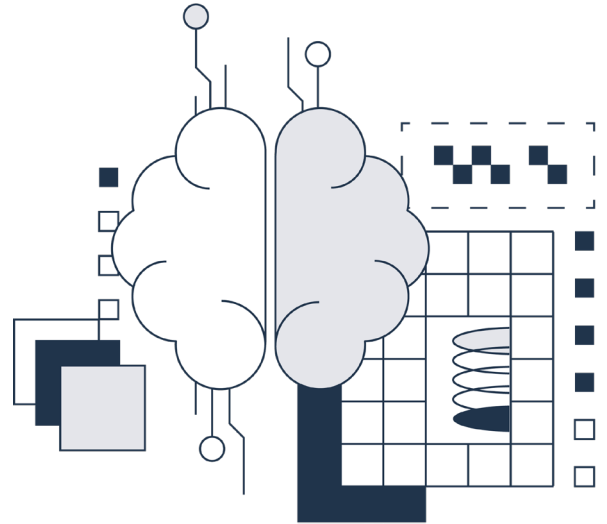




Build agents with real-world value

Go beyond toys and prototypes to build sophisticated agents and AI systems.



What is Temporal?

An orchestrator that handles the tricky parts of complex systems, so you don't have to. Easily build long-running and proactive agents, debug your applications, and ensure your systems survive real-world challenges like LLM failures, rate-limiting, and hallucinations.



How does it work?

- Write agents, tools, and your business logic in plain code
- Your workflows automatically survive process crashes, with Durable Execution, persist session data, and provide guardrails on LLM responses
- Use the UI for visibility—see the progress of every step & where your workflows fail for quick debugging
- Easily scale in production with parallel processing and high throughput

```
@workflow.defn
class DeepResearchAgentWorkflow

@workflow.run
async def run(self, topic_prompt: str) -> str:
    # 1. Generate research questions from the topic
    questions = await workflow.execute_activity(plan_research_questions...)

    all_extracted_info = []

    for question in questions:
        # 2. Find relevant sources to answer each question
        sources = await workflow.execute_activity(llm_generate_sources...)

        # 3. Extract information from all sources in parallel
        extraction_tasks = [workflow.execute_activity(extract_info_from_source...)
                             for source in sources]

        # 4. Gather and compile data from parallel tasks
        extracted_info = await asyncio.gather(*extraction_tasks)
        all_extracted_info.extend(extracted_info)

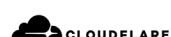
    # 5. Synthesize findings into comprehensive report
    return await workflow.execute_activity(llm_generate_report...)
```



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Why Temporal?

- ✓ **Easily orchestrate** sophisticated agents
- ✓ **Flexible, intuitive** programming model
- ✓ **Durable Execution** lets apps handle real-world challenges
- ✓ Mature product used **at scale** by leading tech, AI, & Fortune 500
- ✓ **Integrations** with popular agent frameworks
 -  **OpenAI Agents SDK**
 -  **Pydantic AI**

Top use cases in AI

Agents & multi-agent systems

Orchestrate long-running, proactive, and human-in-the-loop agents. Protect against hallucinations and rate limiting.

MCP

Write durable tools to improve reliability and context awareness. Make reliable long-running calls.

Inferences & RAG

Orchestrate interactions across LLMs and gather data across datastores. Easily schedule document ingestion.

Trusted by AI leaders and enterprises at scale

“Temporal gives us a lot **more confidence to build** the product and know that it’s not going to have lots of edge cases that lead to bad user experiences.”



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