

SAM 2.0 AGI - One-Page Summary

What it is

SAM 2.0 is a hybrid Python/C multi-agent system with a web dashboard and slash-command interface. It combines a Python orchestrator with C-accelerated cores for meta-control and dual-system simulation.

Who it's for

Not found in repo.

What it does

- Runs a unified Python orchestrator, API server, and CLI via `complete_sam_unified.py`.
- Serves a web dashboard and terminal UI (default at `http://localhost:5004`).
- Provides slash-command controls for agents and tasks (e.g., `/research`, `/code`, `/finance`, `/websearch`).
- Uses C extensions for core subsystems: `sam_sav_dual_system`, `sam_meta_controller_c`, `multi_agent_orchestrator_c`, `specialized_agents_c`, and `consciousness_*`.
- Supports profile-based execution (full vs experimental) and loadable profiles in `profiles/`.
- Streams runtime events through JSONL logs and a live log panel (`logs/sam_runtime.jsonl`).
- Persists state snapshots per profile and reloads on start (`sam_data//state.json`).

How it works (repo evidence)

- Entry point: `complete_sam_unified.py` boots the system, API server, and UI.
- Core compute: C extensions implement the dual-system arena, meta-controller, agent orchestration, and consciousness modules.
- Interfaces: web dashboard and terminal UI; HTTP API endpoints such as `/api/health`, `/api/agents`, `/api/command`, `/api/terminal/execute`; SocketIO groupchat.
- Model providers: optional local Ollama or hosted APIs via `OPENAI_API_KEY`, `ANTHROPIC_API_KEY`, `GOOGLE_API_KEY`, `GITHUB_TOKEN` (when configured).
- Data flow: user/UI or API requests feed the Python orchestrator, which calls C cores; events are written to `logs/sam_runtime.jsonl` and state is saved under `sam_data/`.

How to run (minimal)

- `pip install -r requirements.txt`
- `python setup.py build_ext --inplace`
- Optional: install Ollama and pull a model (e.g., `ollama pull codellama:latest`).
- Start: `./run_sam.sh` or `python3 complete_sam_unified.py`